



TEST REPORT FOR SAR TESTING

Report No.: SRTC2019-9004(F)-19030705(H)

Product Name: Mobile Phone

Product Model: HLTE315E

Marketing Name: Hisense H30

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Specification: Part 2.1093

IEEE Std 1528

KDB Procedures

FCC ID: 2ADOBHLTE315E

The State Radio monitoring center Testing Center (SRTC)

15th Building, No.30 Shixing Street, Shijingshan District, Beijing, P.R.China

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1. GENERAL INFORMATION

1.1 Notes of the test report

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The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
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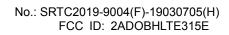
1.3 Applicant's details

Company:	Hisense International Co., Ltd.
Address:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China
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1.4 Manufacturer's details

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	Zone, Qingdao, China				
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1.5 Test Environment

Date of Receipt of test sample at SRTC:	2019.03.07		
Testing Start Date:	2019.04.01		
Testing End Date:	2019.04.26		

Environmental Data:	Temperature (°C)	Humidity (%)	
Ambient	22.5	35	

Normal Supply Voltage (Vdc.):	3.85
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2. DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

	MOON D. L. COMOTO/DOGGOO					
Wireless	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐					
Technology and	WCDMA Band: FDD2/4/5					
	☑LTE Band: 2/4/5/7/12/66					
Frequency	⊠Bluetooth Band: 2.4GHz					
Bands	Wi-Fi Band: 2.4GHz/5.2GHz/5.3GHz/5.6GHz/5.8GHz					
Mode	GSM □ Voice (GMSK) □ GPRS (GMSK) □ EGPRS (GMSK) □ EGPRS (GMSK) □ UMTS Rel. 99 (Voice & Data) □ HSDPA (Rel. 5) □ HSUPA (Rel. 6) □ HSPA+ (Rel.) □ DC-HSDPA (Rel.) □ DC-HSDPA (Rel.) □ 802.11b □ 802.11b □ 802.11g □ 802.11n (20MHz) □ Wi-Fi 5 GHz □ 802.11a □ 802.11a (20MHz/40MHz) □ 802.11a (20MHz/40MHz) □ 802.11a (20MHz/40MHz/80MHz) □ Bluetooth □ BR(GFSK) □ EDR (π/4 DQPSK, 8-DPSK) □ LTE □ QPSK □ 16QAM □ 64QAM					
Duty Cycle	GSM Voice: 12.5%; GPRS: 12.5% (1 Slot), 25% (2 Slots), 37.5% (3 Slots), 50% (4 Slots)					
	Class 8 - One Up					
CDDC/ECDDC						
GPRS/EGPRS	Class 10 - Two Up					
Multi-Slot Class	☐Class 12 - Four Up					
	Class 33 - Four Up					
	☐ Class A - Mobile phones can be connected to both GPRS and GSM services simultaneously.					
Mobile Phone	Class B - Mobile phones can be attached to both GPRS and GSM services, using one service					
	at a time.					
Capability	☐Class C - Mobile phones are attached to either GPRS or GSM voice service. You need to					
	switch manually between services					
DTM	Not Supported					



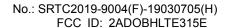
2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

State of sample	Normal
Headset1	NLD-303K-09SH
Batteries	LPN385440C
H/W Version	V1.00
S/W Version	L1604.6.01.00.MX05, L1604.6.01.00.MX02
IMEI	IMEI1:002101545359733
IIVIEI	IMEI2: 002101545359261
	As the information described above, we use test sample offered by the
Notes	customer. The relevant tests have been performed in order to verify in
	which combination case the EUT would have the worst features.

3. REFERENCE SPECIFICATION

Specification	Version	Title			
Part 2.1093	2019	Radiofrequency radiation exposure evaluation: portable device			
IEEE Std 1528	2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques			
IEEE Std 1528a	2005	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques Amendment 1: CAD File for Hum Head Model (SAM Phantom)			
KDB 447498 D01	v06	General RF Exposure Guidance			
KDB 648474 D04	v01r03	Handset SAR			
KDB 941225 D01	v03r01	3G SAR Procedures			
KDB 248227 D01	v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS			
KDB 865664 D01	v01r04	SAR Measurement from 100 MHz to 6 GHz			
KDB 865664 D02	v01r02	RF Exposure Reporting			
KDB 941225 D05	v02r05	SAR for LTE Devices			
KDB 941225 D05A	v01r02	LTE Rel.10 KDB Inquiry Sheet			





4. TEST CONDITIONS

4.1 Picture to demonstrate the required liquid depth

The liquid depth in the used SAM phantoms



Liquid depth for SAR Measurement

4.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on middle channel, and few of them were also performed on lowest and highest channels.

4.3 SAR Measurement Set-up

The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than ± 0.02mm. Special E-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit. A cell controller system contains the power supply, robot controller, teaches pendant (Joystick), and remote control, is used to drive the robot motors.

The PC consists of the Micron Pentium IV computer with Win7 system and SAR Measurement Software DASY5 Professional, A/D interface card, monitor, mouse, and

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keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot.

A data acquisition electronic (DAE) circuit performs the signal amplification; signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines.

The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection

The robot uses its own controller with a built in VME-bus computer.

4.4 Phantoms

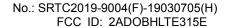
The phantom used for all tests i.e. for both system checks and device testing, was the twin headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528 - 2013.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.5 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 - 2013 and FCC Supplement C to OET Bulletin 65. All tests were carried out using simulants whose dielectric parameters were within ± 5% of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters. The depth of the tissue simulant was 15.0 ± 0.5 cm measured from the ear reference point during system checking and device measurements.





4.5.1 Tissue Stimulant Recipes

The following tissue stimulants were used for Head and Body test:

Name	Broadband tissue-equivalent liquid
Type for Head	HBBL600-6000V6 Head Simulating Liquid
Type for Body	MBBL600-6000V6 Body Simulating Liquid

4.6 DESCRIPTION OF THE TEST PROCEDURE

4.6.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy5 system.



Device holder supplied by SPEAG



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4.6.2 Test positions

4.6.2.1 Against Phantom Head

Measurements were made in "cheek" and "tilt" positions on both the left hand and right-hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2013 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

4.6.2.2 Body Worn Configuration

The device was placed in the SPEAG holder below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance using a separate flat spacer that was removed before the start of the measurements. And the distance is 10mm. The device was oriented with its antenna facing the phantom since this orientation gives higher results.

4.6.3 Scan Procedure

First, area scans were used for determination of the field distribution and the approximate location of the local peak SAR values. The SAR distribution is scanned along the inside surface, at least for an area larger than the projection of the handset and antenna. The angle between the probe axis and the surface normal line is recommended but not required to be less than 30°. The SAR distribution is first measured on a 2-D coarse grid. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. There are 15 mm × 15 mm (equal or less than 2GHz), 12 mm × 12 mm (from 2GHz~3GHz) and 10mm x 10mm (above 5GHz) measurement grid used when two staggered one-dimensional cubic splines are used to estimate the maximum SAR location. Next, a zoom scan, a minimum of 7x7x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

4.6.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within DASY5 are all based on the modified Quadratic Shepard's method (Robert J. Renka, Multivariate Interpolation of Large Sets of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A triradiate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighboring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics. In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

<u>5 RESULT SUMMAR</u>
The maximum reported SAR values for Head configuration and Body Worn configuration are given as follows. The device conforms to the requirements of the standard(s) when the maximum reported SAR value is less than or equal to the limit.

Exposure	Frequency	1g-SAR	Highest 1g-SAR		Limit	Decult
Position	Band	Result(W/kg)	Result(W/kg)		(W/kg)/1g	Result
1 03111011		` 0,	rtoodit	(**/*\9/	(***/\\g)/-19	
	GSM 850	0.78				
	GSM 1900	0.77				
	WCDMA Band 2	0.99			1	
	WCDMA Band 4	1.18				
	WCDMA Band 5	0.80				
	LTE Band 2	0.76				
	LTE Band 4	1.08				
Head	LTE Band 5	0.79	1.18			
	LTE Band 7	0.65	•			
	LTE Band 12	0.48 0.80				
	LTE Band 66 BT/BLE 2.4GHz Band	0.80				
	WLAN 2.4GHz Band	0.01				
	WLAN 5GHz Band(1&2A)	0.24	1			
	WLAN 5GHz Band(2C)	0.39				
	WLAN 5GHz Band(3)	0.40				
	GSM 850	0.56				
	GSM 1900	0.79				
	WCDMA Band 2	0.73	1			
	WCDMA Band 4	0.38				
	WCDMA Band 5	0.23				
	LTE Band 2	0.77				
	LTE Band 4	0.53	1			
Body-Worn	LTE Band 5	0.34	1.11	1.14	1.6	pass
(10mm Gap)	LTE Band 7	1.11				
	LTE Band 12	0.18				
	LTE Band 66	0.56				
	BT/BLE 2.4GHz Band	0.01				
	WLAN 2.4GHz Band	0.04				
	WLAN 5GHz Band(1&2A)	0.04				
	WLAN 5GHz Band(2C)	0.04				
	WLAN 5GHz Band(3)	0.05				
	GSM 850	0.56	-			
	GSM 1900	0.88	-			
	WCDMA Band 2	0.96	-			
	WCDMA Band 4	0.34	-			
Hotspot (10mm Gap)	WCDMA Band 5	0.24	-			
	LTE Band 2	1.14	-			
	LTE Band 4	0.53	1.14			
	LTE Band 5 LTE Band 7	0.34 1.11	1			
	LTE Band 12	0.56	1			
	LTE Band 66	0.52	1			
	WLAN 2.4GHz Band	0.04	1			
	WLAN 5GHz Band(1&2A)	0.04	1			
	WLAN 5GHz Band(182A)	0.04	1			
	WLAN 5GHz Band(3)	0.05	1			

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Simultaneous Transmission Summary

Exposure	Frequency	1g-SAR	Higl	nest	Limit	
	•	Result	1g-9	SAR	(W/kg)/	Result
Position	Band	(W/kg)	Result	(W/kg)	1g	
	GSM & Wi-Fi(2.4G/5G)	1.10				
	WCDMA & Wi-Fi(2.4G/5G)	1.48				
Head	LTE & Wi-Fi(2.4G/5G)	1.41	1.48			
11000	GSM & BT/BLE&Wi-Fi 5G	1.10	1.40			
	WCDMA & BT/BLEBLE&Wi-Fi 5G	1.48				
	LTE & BT/BLEBLE&Wi-Fi 5G	1.42				
	GSM & Wi-Fi(2.4G/5G)	0.83				
Body-Worn	WCDMA & Wi-Fi(2.4G/5G)	0.77		1.48	1.6	pass
Body-Worn	LTE & Wi-Fi(2.4G/5G)	1.15	1.15			·
(10mm Gap)	GSM & BT/BLEBLE&Wi-Fi 5G	0.83	1.13			
	WCDMA & BT/BLEBLE&Wi-Fi 5G	0.77				
	LTE & BT/BLEBLE&Wi-Fi 5G	1.15				
hotspot	GSM & Wi-Fi(2.4G/5G)	0.88				
(40,000,000)	WCDMA & Wi-Fi(2.4G/5G)	0.96	1.17			
(10mm Gap)	LTE & Wi-Fi(2.4G/5G)	1.17				

This Test Report Is Issued by:	Checked by:
Mr. Peng Zhen	Mr. Li Bin
to the	
71 .	
Tested by:	Issued date:
Mr. He Dengshun	20190426
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6 TEST RESULT

6.1 Manufacturing Tolerance

Up Antenna GSM

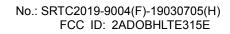
GSM 850						
Channel	Channel 128	Channel 189	Channel 251			
Tolerance (dBm)	27.0~31.0	27.0~31.0	27.0~31.0			

GSM 850 GPRS					
	Channel	128	189	251	
1 Txslot	Tolerance (dBm)	27.0~31.0	27.0~31.0	27.0~31.0	
2 Txslot	Tolerance (dBm)	26.0~30.0	26.0~30.0	26.0~30.0	
3 Txslot	Tolerance (dBm)	24.5~28.5	24.5~28.5	24.5~28.5	
4 Txslot	Tolerance (dBm)	23.5~27.5	23.5~27.5	23.5~27.5	
	GSM 850 EGPRS(GMSK)				
	Channel	128	189	251	
1 Txslot	Tolerance (dBm)	27.0~31.0	27.0~31.0	27.0~31.0	
2 Txslot	Tolerance (dBm)	26.0~30.0	26.0~30.0	26.0~30.0	
3 Txslot	Tolerance (dBm)	24.5~28.5	24.5~28.5	24.5~28.5	
4 Txslot	Tolerance (dBm)	23.5~27.5	23.5~27.5	23.5~27.5	
	GSM 850	EGPRS(8DPSK)		
	Channel	128	189	251	
1 Txslot	Tolerance (dBm)	21.0~25.0	21.0~25.0	21.0~25.0	
2 Txslot	Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0	
3 Txslot	Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
4 Txslot	Tolerance (dBm)	16.5~20.5	16.5~20.5	16.5~20.5	

GSM 1900					
Channel Channel 512 Channel 661 Channel 810					
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0		

GSM 1900 GPRS					
	Channel	512	661	810	
1 Txslot	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
2 Txslot	Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5	
3 Txslot	Tolerance (dBm)	17.0~21.0	17.0~21.0	17.0~21.0	
4 Txslot	Tolerance (dBm)	15.5~19.5	15.5~19.5	15.5~19.5	

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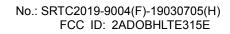


GSM 1900 EGPRS(GMSK)					
Channel		512	661	810	
1 Txslot	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
2 Txslot	Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5	
3 Txslot	Tolerance (dBm)	17.0~21.0	17.0~21.0	17.0~21.0	
4 Txslot	Tolerance (dBm)	15.5~19.5	15.5~19.5	15.5~19.5	
	GSM 190	0 EGPRS(8DPSk	()		
	Channel	512	661	810	
1 Txslot	Tolerance (dBm)	18.0~20.0	18.0~20.0	18.0~20.0	
2 Txslot	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
3 Txslot	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
4 Txslot	Tolerance (dBm)	11.5~15.5	11.5~15.5	11.5~15.5	

WCDMA

WCDMA Band2					
Channel 9262 9400 9538					
Tolerance (dBm)	13.0~17.0	13.0~17.0*	13.0~17.0*		

HSDPA Band2					
	Channel	9262	9400	9538	
Sub test 1	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
Sub test 2	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
Sub test 3	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
Sub test 4	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
	HSUPA Band2				
	Channel	9262	9400	9538	
Sub test 1	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
Sub test 2	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
Sub test 3	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
Sub test 4	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
Sub test 5	Tolerance (dBm)	12.5~16.5	12.5~16.5	12.5~16.5	
HSPA+ Band2					
	Channel	9262	9400	9538	
Sub test 1	Tolerance (dBm)	12.0~16.0	12.0~16.0	12.0~16.0	

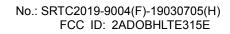


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WCDMA Band4					
Channel 1312 1412 1513					
Tolerance (dBm) 15.5~19.5 15.5~19.5 15.5~19.5					

HSDPA Band4 Upper Antenna					
	Channel	1312	1412	1513	
Sub test 1	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
Sub test 2	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
Sub test 3	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
Sub test 4	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
HSUPA Band4 Upper Antenna					
	Channel	1312	1412	1513	
Sub test 1	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
Sub test 2	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
Sub test 3	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
Sub test 4	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
Sub test 5	Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0	
HSPA+ Band4 Upper Antenna					
	Channel	1312	1412	1513	
Sub test 1	Tolerance (dBm)	14.5~18.5	14.5~18.5	14.5~18.5	

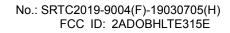


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WCDMA Band5					
Channel 4132 4183 4233					
Tolerance (dBm) 19.5~23.5 19.5~23.5 19.5~23.5					

HSDPA Band5					
	Channel	4132	4183	4233	
Sub test 1	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 2	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 3	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 4	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
	HS	SUPA Band5			
	Channel	4132	4183	4233	
Sub test 1	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
Sub test 2	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
Sub test 3	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
Sub test 4	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
Sub test 5	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
HSPA+ Band5					
	Channel	4132	4183	4233	
Sub test 1	Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5	





LTE

Band 2 QPSK

Q. O. (
20BW 100%RB					
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	12.0~16.0	12.0~16.0	12.0~16.0		
	20BW 50%RB				
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	12.0~16.0	12.0~16.0	12.0~16.0		
20BW 1RB					
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	13.0~17.0	13.0~17.0	13.0~17.0		
160AM					

16QAM

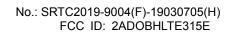
10007 1111					
20BW 100%RB					
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	11.0~15.0	11.0~15.0	11.0~15.0		
	20BW 50%RB				
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	11.0~15.0	11.0~15.0	11.0~15.0		
20BW 1RB					
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	12.0~16.0	12.0~16.0	12.0~16.0		
		•			

64QAM

OTQAN					
20BW 100%RB					
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	11.0~15.0	11.0~15.0	11.0~15.0		
	20BW 50%RB				
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	11.0~15.0	11.0~15.0	11.0~15.0		
	20BW 1RB				
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	12.0~16.0	12.0~16.0	12.0~16.0		

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Band 4 QPSK

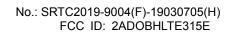
20BW 100%RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	14.5~18.5	14.5~18.5	14.5~18.5		
	20BW 50%RB				
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	14.5~18.5	14.5~18.5	14.5~18.5		
20BW 1RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	15.5~19.5	15.5~19.5	15.5~19.5		

16QAM

10001111					
20BW 100%RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	14.0~18.0	14.0~18.0	14.0~18.0		
	20BW 50%RB				
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	14.0~18.0	14.0~18.0	14.0~18.0		
20BW 1RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0		
040414					

64QAM

20BW 100%RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	14.0~18.0	14.0~18.0	14.0~18.0		
	20BW 50%RB				
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	14.0~18.0	14.0~18.0	14.0~18.0		
20BW 1RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	15.0~19.0	15.0~19.0	15.0~19.0		



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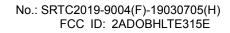
Band 5 QPSK

10BW 100%RB					
Channel	Channel 20450	Channel 20525	Channel 20600		
Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5		
	10BW :	50%RB			
Channel	Channel 20450	Channel 20525	Channel 20600		
Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5		
	10BW 1RB				
Channel	Channel 20450	Channel 20525	Channel 20600		
Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5		
16QAM					

•				
10BW 100%RB				
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	17.5~21.5	17.5~21.5	17.5~21.5	
	10BW :	50%RB		
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	17.5~21.5	17.5~21.5	17.5~21.5	
10BW 1RB				
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
64QAM				

04QAIVI						
	10BW 100%RB					
Channel	Channel 20450	Channel 20525	Channel 20600			
Tolerance (dBm)	17.5~21.5	17.5~21.5	17.5~21.5			
	10BW 50%RB					
Channel	Channel 20450	Channel 20525	Channel 20600			
Tolerance (dBm)	17.5~21.5	17.5~21.5	17.5~21.5			
10BW 1RB						
Channel	Channel 20450	Channel 20525	Channel 20600			
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0			

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Band 7 QPSK

20BW 100%RB					
Channel	Channel 20850	Channel 21100	Channel 21350		
Tolerance (dBm)	11.0~15.0	11.0~15.0	11.0~15.0		
	20BW 50%RB				
Channel	Channel 20850	Channel 21100	Channel 21350		
Tolerance (dBm)	11.0~15.0	11.0~15.0	11.0~15.0		
20BW 1RB					
Channel	Channel 20850	Channel 21100	Channel 21350		
Tolerance (dBm)	11.5~15.5	11.5~15.5	11.5~15.5		
Channel Channel 20850 Channel 21100 Channel 21350					

16QAM

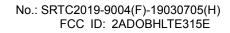
100,111					
20BW 100%RB					
Channel	Channel 20850	Channel 21100	Channel 21350		
Tolerance (dBm)	10.0~14.0	10.0~14.0	10.0~14.0		
	20BW 50%RB				
Channel	Channel 20850	Channel 21100	Channel 21350		
Tolerance (dBm)	10.0~14.0	10.0~14.0	10.0~14.0		
20BW 1RB					
Channel	Channel 20850	Channel 21100	Channel 21350		
Tolerance (dBm)	11.0~15.0	10.0~14.0	10.0~14.0		
040414					

64QAM

04QAW						
20BW 100%RB						
Channel	Channel Channel 20850 Channel 21100 Channel 2135					
Tolerance (dBm)	10.0~14.0	10.0~14.0	10.0~14.0			
	20BW 50%RB					
Channel	Channel 20850	Channel 21100	Channel 21350			
Tolerance (dBm)	10.0~14.0	10.0~14.0	10.0~14.0			
	20BW 1RB					
Channel	Channel 20850	Channel 21100	Channel 21350			
Tolerance (dBm)	11.0~15.0	11.0~15.0	11.0~15.0			

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Band 12 QPSK

10BW 100%RB					
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	10BW !	50%RB			
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	18.0~22.0	18.0~22.0 18.0~22.0			
10BW 1RB					
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5		

16QAM

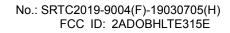
10 30, 1111					
10BW 100%RB					
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	10BW 50%RB				
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	10BW 1RB				
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5		

64QAM

0.145.1111					
10BW 100%RB					
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	10BW :	50%RB			
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
10BW 1RB					
Channel	Channel 23060	Channel 23095	Channel 23130		
Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5		

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Band 66 QPSK

20BW 100%RB					
Channel	Channel 132072	Channel 132322	Channel 132572		
Tolerance (dBm)	13.5~17.5	13.5~17.5	13.5~17.5		
	20BW !	50%RB			
Channel	Channel 132072	Channel 132322	Channel 132572		
Tolerance (dBm)	13.5~17.5	13.5~17.5	13.5~17.5		
	20BW 1RB				
Channel	Channel 132072	Channel 132322	Channel 132572		
Tolerance (dBm)	14.5~18.5	14.5~18.5	14.5~18.5		

16QAM

1000 1111						
20BW 100%RB						
Channel	Channel 132072	Channel 132322	Channel 132572			
Tolerance (dBm)	13.0~17.0	13.0~17.0	13.0~17.0			
	20BW :	50%RB				
Channel	Channel 132072	Channel 132322	Channel 132572			
Tolerance (dBm)	13.0~17.0	13.0~17.0 13.0~17.0				
	20BW 1RB					
Channel	Channel 132072	Channel 132322	Channel 132572			
Tolerance (dBm)	14.0~18.0	14.0~18.0	14.0~18.0			
0.4.0.4.14						

64QAM

		_			
20BW 100%RB					
Channel 132072	Channel 132322	Channel 132572			
13.0~17.0	13.0~17.0	13.0~17.0			
20BW !	50%RB				
Channel 132072	Channel 132322	Channel 132572			
13.0~17.0	13.0~17.0	13.0~17.0			
20BW 1RB					
Channel 132072	Channel 132322	Channel 132572			
14.0~18.0	14.0~18.0	14.0~18.0			
	Channel 132072 13.0~17.0 20BW 9 Channel 132072 13.0~17.0 20BW Channel 132072	13.0~17.0 13.0~17.0 20BW 50%RB Channel 132072 Channel 132322 13.0~17.0 13.0~17.0 20BW 1RB Channel 132072 Channel 132322			





Down Antenna GSM

GSM 850					
Channel Channel 128 Channel 189 Channel 251					
Tolerance (dBm) 29.0~33.0 29.0~33.0 29.0~33.0					

GSM 850 GPRS				
	Channel		189	251
1 Txslot	Tolerance (dBm)	29.0~33.0	29.0~33.0	29.0~33.0
2 Txslot	Tolerance (dBm)	26.0~32.0	26.0~32.0	26.0~32.0
3 Txslot	Tolerance (dBm)	26.5~30.5	26.5~30.5	26.5~30.5
4 Txslot	Tolerance (dBm)	25.5~29.5	25.5~29.5	25.5~29.5
	GSM 85	0 EGPRS(GMSK))	
	Channel	128	189	251
1 Txslot	Tolerance (dBm)	29.0~33.0	29.0~33.0	29.0~33.0
2 Txslot	Tolerance (dBm)	26.0~32.0	26.0~32.0	26.0~32.0
3 Txslot	Tolerance (dBm)	26.5~30.5	26.5~30.5	26.5~30.5
4 Txslot	Tolerance (dBm)	25.5~29.5	25.5~29.5	25.5~29.5
	GSM 850	EGPRS(8DPSK		
	Channel	128	189	251
1 Txslot	Tolerance (dBm)	23.0~27.0	23.0~27.0	23.0~27.0
2 Txslot	Tolerance (dBm)	22.0~26.0	22.0~26.0	22.0~26.0
3 Txslot	Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0
4 Txslot	Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5

GSM 1900					
Channel Channel 512 Channel 661 Channel 810					
Tolerance (dBm) 26.0~30.0 26.0~30.0 26.0~30.0					

GSM 1900 GPRS					
	Channel		661	810	
1 Txslot	Tolerance (dBm)	26.0~30.0	26.0~30.0	26.0~30.0	
2 Txslot	Tolerance (dBm)	25.5~29.5	25.5~29.5	25.5~29.5	
3 Txslot	Tolerance (dBm)	24.0~28.0	24.0~28.0	24.0~28.0	
4 Txslot	Tolerance (dBm)	22.5~26.5	22.5~26.5	22.5~26.5	
	GSM 1900 EGPRS(GMSK)				
	Channel	512	661	810	
1 Txslot	Tolerance (dBm)	26.0~30.0	26.0~30.0	26.0~30.0	
2 Txslot	Tolerance (dBm)	25.5~29.5	25.5~29.5	25.5~29.5	
3 Txslot	Tolerance (dBm)	24.0~28.0	24.0~28.0	24.0~28.0	
4 Txslot	Tolerance (dBm)	22.5~26.5	22.5~26.5	22.5~26.5	
GSM 1900 EGPRS(8DPSK)					
	Channel	512	661	810	
1 Txslot	Tolerance (dBm)	25.0~27.0	25.0~27.0	25.0~27.0	

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No.: SRTC2019-9004(F)-19030705(H) FCC ID: 2ADOBHLTE315E

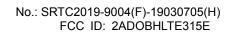
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2 Txslot	Tolerance (dBm)	22.0~26.0	22.0~26.0	22.0~26.0
3 Txslot	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5
4 Txslot	Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5

WCDMA

WCDMA Band2				
Channel 9262 9400 9538				
Tolerance (dBm) 20.0~24.0 20.0~24.0 20.0~24.0				

	HSDPA Band2				
Channel		9262	9400	9538	
Sub test 1	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 2	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 3	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 4	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
	HS	UPA Band2			
	Channel	9262	9400	9538	
Sub test 1	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 2	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 3	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 4	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Sub test 5	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
	HSPA+ Band2				
	Channel	9262	9400	9538	
Sub test 1	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	





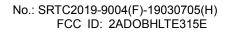
WCDMA Band4				
Channel 1312 1412 1513				
Tolerance (dBm) 19.5~23.5 19.5~23.5 19.5~23.5				

HSDPA Band4				
	Channel		1412	1513
Sub test 1	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 2	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 3	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 4	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
	HS	UPA Band4		
	Channel	1312	1412	1513
Sub test 1	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 2	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 3	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 4	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 5	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
HSPA+ Band4				
	Channel	1312	1412	1513
Sub test 1	Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5

WCDMA Band5				
Channel 4132 4183 4233				
Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	

HSDPA Band5				
Channel		4132	4183	4233
Sub test 1	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5
Sub test 2	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5
Sub test 3	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5
Sub test 4	Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5
	HS	SUPA Band5		
	Channel	4132	4183	4233
Sub test 1	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 2	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 3	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 4	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
Sub test 5	Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0
HSPA+ Band5				
	Channel	4132	4183	4233
Sub test 1	Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5

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LTE

Band 2 QPSK

Q. O. (
20BW 100%RB					
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0		
	20BW 50%RB				
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0		
20BW 1RB					
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	20.0~24.0	20.0~24.0	20.0~24.0		
16 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					

16QAM

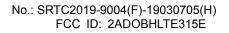
10 Q/ tivi				
20BW 100%RB				
Channel	Channel 19300	Channel 19575	Channel 19850	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
20BW 50%RB				
Channel	Channel 19300	Channel 19575	Channel 19850	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
20BW 1RB				
Channel	Channel 19300	Channel 19575	Channel 19850	
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
$CA \cap AAA$				

64QAM

O 1 Q/ WI					
20BW 100%RB					
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	20BW 50%RB				
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	20BW 1RB				
Channel	Channel 19300	Channel 19575	Channel 19850		
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0		

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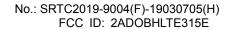
Band 4 QPSK

16QAM

10001111					
20BW 100%RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	20BW 50%RB				
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
20BW 1RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0		
0.4.0.4.14					

64QAM

04QAW					
20BW 100%RB					
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	20BW 50%RB				
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	20BW 1RB				
Channel	Channel 20050	Channel 20175	Channel 20300		
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0		





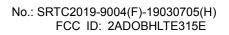
Band 5 QPSK

α. σ. τ				
10BW 100%RB				
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5	
	10BW :	50%RB		
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5	
10BW 1RB				
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
16OAM				

16QAM 10BW 100%RB Channel 20525 17.5~21.5 Channel 20450 17.5~21.5 Channel 20600 17.5~21.5 Channel 10BW 50%RB
Channel 20450 Cha
17.5~21.5 Tolerance (dBm) Channel Tolerance (dBm) Channel 20525 17.5~21.5 Channel 20600 17.5~21.5 Channel 20450 Channel 20525 Channel 20600 Channel Tolerance (dBm) 64QAM 19.0~23.0 19.0~23.0 19.0~23.0

OT Q/ TIVI				
10BW 100%RB				
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	17.5~21.5	17.5~21.5	17.5~21.5	
	10BW :	50%RB		
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	17.5~21.5	17.5~21.5	17.5~21.5	
10BW 1RB				
Channel	Channel 20450	Channel 20525	Channel 20600	
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	

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Band 7 QPSK

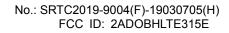
20BW 100%RB				
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
	20BW !	50%RB		
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	
20BW 1RB				
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	
Tolerance (dBm) Channel	19.0~23.0 20BW Channel 20850	19.0~23.0 / 1RB Channel 21100	19.0~23.0 Channel 21350	

16QAM

			_	
20BW 100%RB				
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
	20BW !	50%RB		
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
20BW 1RB				
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	

64QAM

20BW 100%RB				
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
	20BW !	50%RB		
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
20BW 1RB				
Channel	Channel 20850	Channel 21100	Channel 21350	
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	





Band 12 QPSK

10BW 100%RB				
Channel	Channel 23060	Channel 23095	Channel 23130	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
	10BW !	50%RB		
Channel	Channel 23060	Channel 23095	Channel 23130	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
10BW 1RB				
Channel	Channel 23060	Channel 23095	Channel 23130	
Tolerance (dBm)	19.5~23.5	19.5~23.5	19.5~23.5	

16QAM

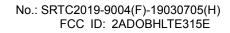
10BW 100%RB				
Channel 23095	Channel 23130			
18.0~22.0	18.0~22.0			
50%RB				
Channel 23095	Channel 23130			
18.0~22.0	18.0~22.0			
10BW 1RB				
Channel 23095	Channel 23130			
18.5~22.5	18.5~22.5			
	Channel 23095 18.0~22.0 50%RB Channel 23095 18.0~22.0 V 1RB Channel 23095			

64QAM

10BW 100%RB				
Channel	Channel 23060	Channel 23095	Channel 23130	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
	10BW :	50%RB		
Channel	Channel 23060	Channel 23095	Channel 23130	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
10BW 1RB				
Channel	Channel 23060	Channel 23095	Channel 23130	
Tolerance (dBm)	18.5~22.5	18.5~22.5	18.5~22.5	

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Band 66 QPSK

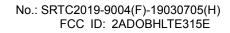
20BW 100%RB				
Channel 132072	Channel 132322	Channel 132572		
18.5~22.5	18.5~22.5	18.5~22.5		
20BW 5	50%RB			
Channel 132072	Channel 132322	Channel 132572		
18.5~22.5	18.5~22.5	18.5~22.5		
20BW 1RB				
Channel 132072	Channel 132322	Channel 132572		
19.5~23.5	18.5~22.5	18.5~22.5		
	Channel 132072 18.5~22.5 20BW 5 Channel 132072 18.5~22.5 20BW Channel 132072	Channel 132072 Channel 132322 18.5~22.5 18.5~22.5 20BW 50%RB Channel 132072 Channel 132322 18.5~22.5 18.5~22.5 20BW 1RB Channel 132072 Channel 132322		

16QAM

20BW 100%RB					
Channel	Channel 132072	Channel 132322	Channel 132572		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
	20BW !	50%RB			
Channel	Channel 132072	Channel 132322	Channel 132572		
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0		
20BW 1RB					
Channel	Channel 132072	Channel 132322	Channel 132572		
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0		
	0.40 4.14				

64QAM

04QAW				
20BW 100%RB				
Channel	Channel 132072	Channel 132322	Channel 132572	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
	20BW :	50%RB		
Channel	Channel 132072	Channel 132322	Channel 132572	
Tolerance (dBm)	18.0~22.0	18.0~22.0	18.0~22.0	
20BW 1RB				
Channel	Channel 132072	Channel 132322	Channel 132572	
Tolerance (dBm)	19.0~23.0	19.0~23.0	19.0~23.0	



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Bluetooth

GFSK				
Channel	0	39	78	
Tolerance (dBm)	5.0~9.0	5.0~9.0	5.0~9.0	
	π/4D0	QPSK		
Channel	0	39	78	
Tolerance (dBm)	3.0~7.0	3.0~7.0	3.0~7.0	
8DPSK				
Channel	0	39	78	
Tolerance (dBm)	3.0~7.0	3.0~7.0	3.0~7.0	

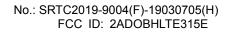
Bluetooth (BLE)

GFSK					
Channel	0	19	39		
Tolerance (dBm)	2.0~6.0	2.0~6.0	2.0~6.0		

WLAN 2.4GHz

WLAN 2.4GHZ			
	802	.11b	
Channel	1	6	11
Tolerance (dBm)	10.5~14.5	10.5~14.5	10.5~14.5
	802	.11g	
Channel	1	6	11
Tolerance (dBm)	10.0~14.0	10.0~14.0	10.0~14.0
	802.11	n HT20	
Channel	1	6	11
Tolerance (dBm)	9.5~13.5	9.5~13.5	9.5~13.5

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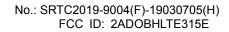


WIFI-5GHz (U-NII 1)

	802.11a					
Tolerance (dBm)	7.5~11.5					
	802.11n HT20					
Tolerance (dBm)	7.5~11.5					
	802.11n HT40					
Tolerance (dBm)	7.0~11.0					
	802.11ac VHT20					
Tolerance (dBm)	7.5~11.5					
	802.11ac VHT40					
Tolerance (dBm)	7.0~11.0					
802.11ac VHT80						
Tolerance (dBm)	6.0~10.0					

WIFI-5GHz (U-NII 2A)

WII 1-00112 (0-IVII 2A)						
	802.11a					
Tolerance (dBm)	8.0~12.0					
	802.11n HT20					
Tolerance (dBm)	8.0~12.0					
	802.11n HT40					
Tolerance (dBm)	8.0~12.0					
	802.11ac VHT20					
Tolerance (dBm)	7.5~11.5					
	802.11ac VHT40					
Tolerance (dBm)	6.5~10.5					
802.11ac VHT80						
Tolerance (dBm)	6.0~10.0					



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WIFI-5GHz (U-NII 2C)

WII 1-36112 (0-NII 26)						
	802.11a					
Tolerance (dBm)	7.5~11.5					
	802.11n HT20					
Tolerance (dBm)	7.5~11.5					
	802.11n HT40					
Tolerance (dBm)	7.0~11.0					
	802.11ac VHT20					
Tolerance (dBm)	7.5~11.5					
	802.11ac VHT40					
Tolerance (dBm)	7.0~11.0					
	802.11ac VHT80					
Tolerance (dBm)	6.5~10.5					

WIFI-5GHz (U-NII 3)

VIII 1 00112 (0 1111 0)						
	802.11a					
Tolerance (dBm)	7.5~11.5					
	802.11n HT20					
Tolerance (dBm)	7.5~11.5					
	802.11n HT40					
Tolerance (dBm)	7.0~11.0					
	802.11ac VHT20					
Tolerance (dBm)	7.5~11.5					
	802.11ac VHT40					
Tolerance (dBm)	6.5~10.5					
	802.11ac VHT80					
Tolerance (dBm)	6.0~10.0					

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6.2 GSM Measurement result

Up Antenna

GSM Measured Power

Mode	GSM850			GSM1900			
Channel	128	189	251	512	661	810	
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8	
Measured Power(dBm)	30.48	30.45	30.40	22.78	22.89	22.97	

GSM Frame Average Power

Mode	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
Frame Average Power (dBm)	21.45	21.42	21.37	13.75	13.86	13.94

GPRS Measured Power

Mode	GPRS850			GPRS1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplinkPower(dBm)	30.45	30.43	30.38	22.78	22.89	22.97
3Downlink2uplinkPower(dBm)	29.88	29.85	29.81	22.15	22.22	22.32
2Downlink3uplinkPower(dBm)	28.32	28.24	28.19	20.48	20.58	20.67
1Downlink4uplinkPower(dBm)	27.18	27.12	27.08	19.37	19.42	19.43

GPRS Frame Average Power

Mode	GPRS850			GPRS1900			
Channel	128	189	251	512	661	810	
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8	
4Downlink1uplinkPower(dBm)	21.42	21.40	21.35	13.75	13.86	13.94	
3Downlink2uplinkPower(dBm)	23.86	23.83	23.79	16.13	16.20	16.30	
2Downlink3uplinkPower(dBm)	24.06	23.98	23.93	16.22	16.32	16.41	
1Downlink4uplinkPower(dBm)	24.17	24.11	24.07	16.36	16.41	16.42	

EGPRS Measured Power

Mode	EGPR:	S850(GN	MSK)	EGPRS1900(GMSK)			
Mode	EGPR	S850 (8F	PSK)	EGPRS1900 (8PSK)			
Channel	128	189	251	512	661	810	
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8	
4Downlink1uplinkPower(dBm)	30.47	30.45	30.39	22.74	22.85	22.97	
4Downlink ruplinkPower(dBm)	24.89	24.92	24.98	19.33	19.42	19.51	
3Downlink2uplinkPower(dBm)	29.9	29.87	29.8	22.27	22.32	22.41	
3DownlinkzupilikPower(dbiri)	23.64	23.72	23.81	18.47	18.55	18.63	
2Downlink3uplinkPower(dBm)	28.29	28.23	28.19	20.46	20.54	20.65	
2DownlinkSupilitkPower(dBm)	21.36	21.47	21.56	16.27	16.36	16.44	
1Downlink4uplinkPower(dBm)	27.17	27.13	27.09	19.38	19.44	19.51	
1Downlink+uplinkFower(ubin)	20.09	20.15	20.28	15.07	15.14	15.23	

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EGPRS Frame Average Power

Mode	EGPRS	8850(GM	1SK)	EGPRS1900(GMSK)			
Mode	EGPR	S850 (8F	PSK)	EGPRS1900 (8PSK)			
Channel	128	189	251	512	661	810	
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8	
4Downlink1unlinkDowor(dPm)	21.44	21.42	21.36	13.71	13.82	13.94	
4Downlink1uplinkPower(dBm)	15.86	15.89	15.95	10.30	10.39	10.48	
3Downlink2uplinkPower(dBm)	23.88	23.85	23.78	16.25	16.30	16.39	
3DownlinkzuplinkPower(dbin)	17.62	17.70	17.79	12.45	12.53	12.61	
2Downlink2unlinkDowor(dPm)	24.03	23.97	23.93	16.20	16.28	16.39	
2Downlink3uplinkPower(dBm)	17.10	17.21	17.30	12.01	12.10	12.18	
1Downlink Auplink Dower (dDm)	24.16	24.12	24.08	16.37	16.43	16.50	
1Downlink4uplinkPower(dBm)	17.08	17.14	17.27	12.06	12.13	12.22	

Division Factors (for Measured Power and Frame Average Power):

To average the power, the division factor is as follows:

1TX-slot (4Downlink1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink) = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink) = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

There is a little difference for modulation type GMSK between GPRS and EDGE (EGPRS), the bit rate is not the same, so we also test the power of GMSK type for EDGE. According to the frame average conducted power as above, the SAR measurements are performed with **4Txslots (1Downlink4uplink)** of GPRS (GMSK).

Down Antenna

GSM Measured Power

Mode	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
Measured Power(dBm)	32.48	32.45	32.40	29.78	29.89	29.97

GSM Frame Average Power

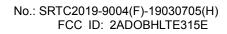
Mode	GSM850			GSM1900			
Channel	128	189	251	512	661	810	
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8	
Frame Average Power (dBm)	23.45	23.42	23.37	20.75	20.86	20.94	

GPRS Measured Power

Mode	GPRS850			GPRS1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplinkPower(dBm)	32.45	32.43	32.38	29.78	29.89	29.97
3Downlink2uplinkPower(dBm)	31.88	31.85	31.81	29.15	29.22	29.32
2Downlink3uplinkPower(dBm)	30.32	30.24	30.19	27.48	27.58	27.67
1Downlink4uplinkPower(dBm)	29.18	29.12	29.08	26.37	26.42	26.43

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GPRS Frame Average Power

Mode	GPRS850			GPRS1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1uplinkPower(dBm)	23.42	23.40	23.35	20.75	20.86	20.94
3Downlink2uplinkPower(dBm)	25.86	25.83	25.79	23.13	23.20	23.30
2Downlink3uplinkPower(dBm)	26.06	25.98	25.93	23.22	23.32	23.41
1Downlink4uplinkPower(dBm)	26.17	26.11	26.07	23.36	23.41	23.42

EGPRS Measured Power

	EGPR:	S850(GN	/ISK)	EGPRS1900(GMSK)		
Mode	EGPRS850 (8PSK)			EGPRS1900 (8PSK)		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
4Downlink1unlinkDowor(dDm)	32.47	32.45	32.39	29.74	29.85	29.97
4Downlink1uplinkPower(dBm)	26.89	26.92	26.98	26.33	26.42	26.51
2Downlink?unlinkDower(dPm)	31.90	31.87	31.80	29.27	29.32	29.41
3Downlink2uplinkPower(dBm)	25.64	25.72	25.81	25.47	25.55	25.63
2Downlink2unlinkDower(dPm)	30.29	30.23	30.19	27.46	27.54	27.65
2Downlink3uplinkPower(dBm)	23.36	23.47	23.56	23.27	23.36	23.44
1Downlink4uplinkPower(dBm)	29.17	29.13	29.09	26.38	26.44	26.51
	22.09	22.15	22.28	22.07	22.14	22.23

EGPRS Frame Average Power

Lot No France Average Fower							
Mode	EGPRS	8850(GM	1SK)	EGPRS1900(GMSK)			
Mode	EGPRS	3850 (8F	PSK)	EGPRS1900 (8PSK)			
Channel	128	189	251	512	661	810	
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8	
4Downlink1uplinkPower(dBm)	23.44	23.42	23.36	20.71	20.82	20.94	
4Downlink ruplinkPower(ubin)	17.86	17.89	17.95	17.30	17.39	17.48	
3Downlink2uplinkPower(dBm)	25.88	25.85	25.78	23.25	23.30	23.39	
3DownlinkzupilitkPower(ubiti)	19.62	19.70	19.79	19.45	19.53	19.61	
2Downlink3uplinkPower(dBm)	26.03	25.97	25.93	23.20	23.28	23.39	
2DownlinkSupilitkPower(dBiff)	19.10	19.21	19.30	19.01	19.10	19.18	
1Downlink4uplinkPower(dBm)	26.16	26.12	26.08	23.37	23.43	23.50	
1Downlink+upilitkFower(ubiti)	19.08	19.14	19.27	19.06	19.13	19.22	

Division Factors (for Measured Power and Frame Average Power):

To average the power, the division factor is as follows:

1TX-slot (4Downlink1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink) = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink) = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

There is a little difference for modulation type GMSK between GPRS and EDGE (EGPRS), the bit rate is not the same, so we also test the power of GMSK type for EDGE. According to the frame average conducted power as above, the SAR measurements are performed with **4Txslots (1Downlink4uplink)** of GPRS (GMSK).

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6.3 WCDMA Measurement result

The following procedures are according to FCC KDB Publication 941225 D01. Release 99

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

	, ,	
Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	βc/βd	8/15

HSDPA

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121.

Sub-test	βс	βd	β _d (SF)	βc/βd	$\beta_{hs}^{(1)}$	CM(dB) (2)
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/18	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note1: \triangle ACK, \triangle NACK and \triangle CQI =8 \Leftrightarrow Ahs= β hs/ β c=30/15 \Leftrightarrow β hs=30/15* β c.

Note2:CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$.

Note3: For subtest 2 the β_{c}/β_{d} ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to β_c =11/15 and β_d =15/15.

HSUPA

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121.

01 001													
Sub-te st	βc	βd	β _d (S F)	βς/βα	β _{hs} (1	$eta_{ ext{ec}}$	βed	β _{ed} (S F)	β _{ed} (code s)	(dB	MP R (d B)	AG ⁽ 4) Inde x	E-TF CI
1	11/15 ⁽	15/15 (3)	64	11/15 ⁽	22/1 5	209/2 25	1039/2 25	4	1	1.0	2.0	20	75
2	6/15	15/15	64	6/15	12/1 5	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/1 5	30/15	β _{ed1} :47/ 15 β _{ed2} :47/ 15	4	2	2.0	2.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (4)	15/15 (4)	64	15/15 (4)	30/1 5	24/15	134/15	4	1	1.0	2.0	21	81

Note1: \triangle ACK, \triangle NACK and \triangle CQI =8 \Leftrightarrow Ahs= β hs/ β c=30/15 \Leftrightarrow β hs=30/15* β c.

Note2:CM=1 for β_c/β_d =12/15, β_{hs}/β_c =24/15.For all other combinations of

DPDCH,DPCCH,HS-DPCCH,E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period(TF1,TF0) is

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achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to β_c =10/15 and $\beta_d = 15/15$.

Note4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to β_c=14/15 and

NOTE5: Testing UE using E-DPDCH Physical layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1q.

NOTE6:βed can not be set directly; it is set by Absolute Grant Value.

Up Antenna

R99 Measured Results

res modeared resource	Tree inicacanca recoance							
Mode		Band II			Band IV			
Channel	9262	9400	9538	1312	1412	1513		
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.4	1752.6		
RB test mode1+64kRMC(dBm)	23.58	23.65	23.71	22.16	22.18	22.21		
RB test mode1+12.2kRMC(dBm)	23.70	23.77	23.79	22.39	22.42	22.47		
RB test mode1+144kRMC(dBm)	23.42	23.67	23.71	22.24	22.23	22.18		
RB test mode1+384kRMC(dBm)	23.24	23.52	23.63	22.13	22.16	22.15		

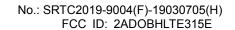
Mode		Band V	
Channel	4132	4183	4233
Frequency(MHz)	826.4	836.4	846.6
RB test mode1+64kRMC(dBm)	23.26	23.31	23.35
RB test mode1+12.2kRMC(dBm)	23.38	23.37	23.41
RB test mode1+144kRMC(dBm)	23.27	23.32	23.35
RB test mode1+384kRMC(dBm)	23.21	23.28	23.34

HSDPA Measured Results

Mode	HSDPA Band II			HSDPA Band IV		
Channel	9262	9400	9538	1312	1412	1513
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740.0	1752.4
sub-test1(dBm)	23.34	23.36	23.35	21.81	21.84	21.83
sub-test2(dBm)	23.44	23.41	23.42	21.86	21.81	21.82
sub-test3(dBm)	23.37	23.36	23.35	21.85	21.82	21.81
sub-test4(dBm)	23.34	23.32	23.35	21.84	21.91	21.88

Mode			
Channel	4132	4183	4233
Frequency(MHz)	826.4	836.4	846.6
sub-test1(dBm)	23.11	23.13	23.15
sub-test2(dBm)	23.17	23.09	23.12
sub-test3(dBm)	23.10	23.13	23.12
sub-test4(dBm)	23.15	231.4	23.17

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HSUPA Measured Results

Mode	HSUPA Band II			HSUPA Band IV		
Channel	9262	9400	9538	1312	1412	1513
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740.0	1752.4
sub-test1(dBm)	23.33	23.32	23.33	21.74	21.72	21.74
sub-test2(dBm)	23.31	23.34	23.35	21.81	21.73	21.77
sub-test3(dBm)	23.38	23.41	23.43	21.78	21.73	21.76
sub-test4(dBm)	23.34	23.30	23.28	21.72	21.81	21.71
sub-test5(dBm)	23.27	23.25	23.33	21.75	21.73	21.71

Mode	HSUPA Band V					
Channel	4132	4183	4233			
Frequency (MHz)	826.4	836.4	846.6			
sub-test1(dBm)	22.98	22.97	23.01			
sub-test2(dBm)	22.93	22.97	22.94			
sub-test3(dBm)	22.99	22.96	22.96			
sub-test4(dBm)	22.93	22.95	22.97			
sub-test5(dBm)	22.95	22.96	22.98			

HSPA+ Measured Results

Mode	HSPA+ Band II		
Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	
1852.4	9262	22.62	
1880.0	9400	22.61	
1907.6	9538	22.64	

Mode	HSPA+ Band IV		
Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	
1712.4	1312	21.39	
1732.4	1412	21.22	
1752.6	1513	21.21	

Mode	HSPA+ Band V		
Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	
826.4	4132	22.32	
836.6	4183	22.35	
846.6	4233	22.34	

Note: UMTS SAR was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01.HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

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Down Antenna

R99 Measured Results

Mode		Band II			Band IV	
Channel	9262	9400	9538	1312	1412	1513
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.4	1752.6
RB test mode1+64kRMC(dBm)	23.58	23.65	23.71	23.16	23.18	23.21
RB test mode1+12.2kRMC(dBm)	23.70	23.77	23.79	23.39	23.42	23.47
RB test mode1+144kRMC(dBm)	23.42	23.67	23.71	23.24	23.23	23.18
RB test mode1+384kRMC(dBm)	23.24	23.52	23.63	23.13	23.16	23.15

Mode		Band V	
Channel	4132	4183	4233
Frequency(MHz)	826.4	836.4	846.6
RB test mode1+64kRMC(dBm)	23.26	23.31	23.35
RB test mode1+12.2kRMC(dBm)	23.38	23.37	23.41
RB test mode1+144kRMC(dBm)	23.27	23.32	23.35
RB test mode1+384kRMC(dBm)	23.21	23.28	23.34

HSDPA Measured Results

Mode	HSDPA Band II		HSDPA Band IV		IV	
Channel	9262	9400	9538	1312	1412	1513
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740.0	1752.4
sub-test1(dBm)	23.34	23.36	23.35	22.81	22.84	22.83
sub-test2(dBm)	23.44	23.41	23.42	22.86	22.81	22.82
sub-test3(dBm)	23.37	23.36	23.35	22.85	22.82	22.81
sub-test4(dBm)	23.34	23.32	23.35	22.84	22.91	22.88

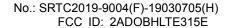
Mode	HSDPA Band V		
Channel	4132	4183	4233
Frequency(MHz)	826.4	836.4	846.6
sub-test1(dBm)	23.11	23.13	23.15
sub-test2(dBm)	23.17	23.09	23.12
sub-test3(dBm)	23.10	23.13	23.12
sub-test4(dBm)	23.15	231.4	23.17

HSUPA Measured Results

Mode	HSUPA Band II		HS	SUPA Band	IV	
Channel	9262	9400	9538	1312	1412	1513
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740.0	1752.4
sub-test1(dBm)	23.33	23.32	23.33	22.74	22.72	22.74
sub-test2(dBm)	23.31	23.34	23.35	22.81	22.73	22.77
sub-test3(dBm)	23.38	23.41	23.43	22.78	22.73	22.76
sub-test4(dBm)	23.34	23.30	23.28	22.72	22.81	22.71
sub-test5(dBm)	23.27	23.25	23.33	22.75	22.73	22.71

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Mode	HSUPA Band V		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.4	846.6
sub-test1(dBm)	22.98	22.97	23.01
sub-test2(dBm)	22.93	22.97	22.94
sub-test3(dBm)	22.99	22.96	22.96
sub-test4(dBm)	22.93	22.95	22.97
sub-test5(dBm)	22.95	22.96	22.98

HSPA+ Measured Results

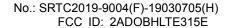
Mode	HSPA+ Band II		
Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	
1852.4	9262	22.62	
1880.0	9400	22.61	
1907.6	9538	22.64	

Mode	HSPA+ Band IV		
Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	
1712.4	1312	22.39	
1732.4	1412	22.22	
1752.6	1513	22.21	

Mode	HSPA+ Band V		
Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	
826.4	4132	22.32	
836.6	4183	22.35	
846.6	4233	22.34	

Note: UMTS SAR was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01.HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

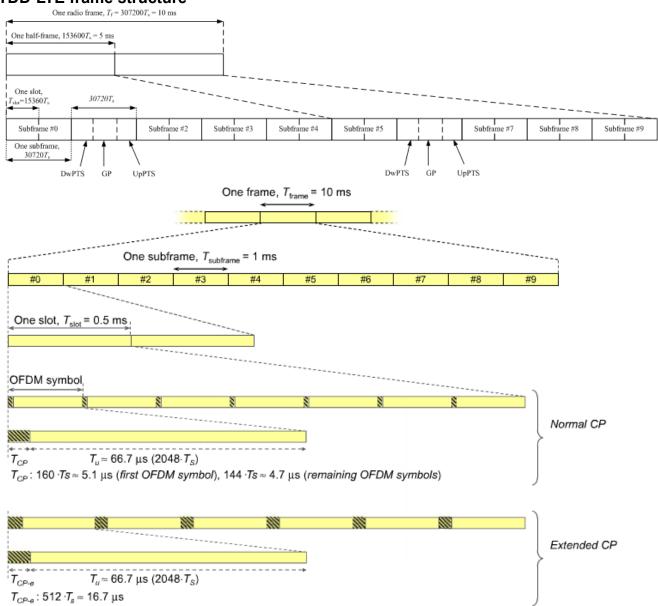
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6.4 LTE Measurement result General description:

TDD-LTE frame structure



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Uplink-downlink configuration

Uplink-downlink	Downlink-to-Uplink	Subframe number									
configuration	Switch-point periodicity		1	2	3	4	5	6	7	8	9
0	5 ms	D	D <mark>S</mark> U		U	U	D	s	U	U	U
1	5 ms	D	s	U	U	D	D	s	U	U	D
2	5 ms	D	s	U	D	D	D	S	U	D	D
3	10 ms	D	s	U	U	U	D	D	D	D	D
4	10 ms	D	s	U	U	D	D	D	D	D	D
5	10 ms	D	s	U	D	D	D	D	D	D	D
6	5 ms	D	s	U	U	U	D	s	U	U	D

Special sub-frame configuration

Special subframe	Norma	l cyclic prefix i	n downlink	Exte	nded cyclic prefix	in downlink	
configuration	DWPTS	Up	PTS	DWPTS	UpPTS		
		Normal	Extended		Normal cyclic	Extended cyclic	
		cyclic prefix	cyclic prefix		prefix in uplink	prefix in uplink	
		in uplink	in uplink				
0	6592 <i>·T</i> _s		2560 · T _s	7680 · T _s	2192 · <i>T</i> ,	2560 · T _s	
1	19760 · T _s			20480· <i>T</i> _s			
2	21952· <i>T</i> _s	2192 · T _s		23040 · T _s			
3	24144·T _s	1		25600· <i>T</i> s			
4	26336· <i>T</i> _s	1		7680 · T _s			
5	6592 <i>·T</i> _s			20480· <i>T</i> _s	4384 · T _s	5120 · T _s	
6	19760 · T _s	4204 77	5100 T	23040 · T _s			
7	21952· <i>T</i> ,	4384 · <i>T</i> ,	5120 · <i>T</i> ₅	-	-	-	
8	24144·T _s	1		-	-	-	

Special sub-frame with cyclic prefix uplink

Special sub-frame configuration		Duty factor with normal cyclic prefix in uplink	Duty factor with extended cyclic prefix in uplink
Normal cyclic prefix in	0~4	7.13%	8.33%
downlink	5~9	14.3%	16.7%
Extended cyclic prefix	0~3	7.13%	8.33%
in downlink	4~7	14.3%	16.7%

So we perform SAR test with maximum duty factor equal to 63.3% by using uplink-downlink configuration 0.

Note: One sub-frame is 30720Ts=1ms, when UpPTS(uplink) in special sub-frame with extended cyclic prefix, duty factor = 5120/30720=0.167. There are 5 sub-frames in half frame(3up link), so the final duty factor is (30720*3+5120)/(30720*5)=63.3% which we used to evaluate the SAR compliance (worst case)

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Up Antenna

LTE band2

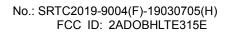
LTE band2					55	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	16.46
	4050.7	40007		1	5	16.46
	1850.7	18607		3	2	15.68
				6	0	15.57
			1.4	1	0	16.44
ODCK	4000	40000		1	5	16.44
QPSK	1880	18900		3	2	15.70
				6	0	15.61
			1	1	0	16.45
	4000.0	40400		1	5	16.45
	1909.3	19193		3	2	15.76
				6	0	15.68
	0			DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	15.71
	1050 7	19607		1	5	15.71
	1850.7	18607		3	2	14.59
				6	0	14.51
	1880	18900	1.4	1	0	15.74
160414				1	5	15.74
16QAM				3	2	14.68
				6	0	14.54
			1	1	0	15.76
	1000.2	10102		1	5	15.76
	1909.3	19193		3	2	14.73
				6	0	14.67
	Carrier frequency	UL		DD	DD	Conducted
Modulation	Carrier frequency	Channel	BW	RB Size	RB Offset	power
	(MHz)	Charmer		Size	Oliset	(dBm)
				1	0	15.46
	1850.7	18607		1	5	15.46
	1000.7	10007		3	2	14.57
				6	0	14.49
]	1	0	15.48
64QAM	1000	19000	1.4	1	5	15.48
	1880	18900		3	2	14.60
			_	6	0	14.53
				1	0	15.53
	1909.3	19193		1	5	15.53
				3	2	14.64





6 14.60 0

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	1851.5	18615		1 1	0 14	16.43 16.43
	1001.0	10010		8 15	4 0	15.65 15.54
			-	10	0	16.41
QPSK	1880	18900	3	1	14	16.41
QI SIX	1000	10900		8	4	15.67
			-	15	0	15.58
			-	1	0	16.42
	1908.5	19185	-	1	14	16.42
				8 15	4 0	15.73 15.65
				15	U	Conducted
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	power
	,	Ondrine				(dBm)
	1851.5	18615	-	1	0 14	15.68
				<u>1</u> 8	4	15.68 14.56
				o 15	0	14.48
				13	0	15.71
	1880		-	1	14	15.71
16QAM		18900	3	8	4	14.65
			•	15	0	14.51
	4000.5	19185	-	1	0	15.73
			•	1	14	15.73
	1908.5		-	8	4	14.70
				15	0	14.64
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
			-	1	0	15.43
	1851.5	18615	-	1	14	15.43
				8	4	14.54
			-	15	0	14.46
				<u> </u>	14	15.45 15.45
64QAM	1880	18900	3	8	4	14.57
				15	0	14.50
			1	10	0	15.50
	(000 =			. 1	14	15.50
	1908.5	19185		8	4	14.61
				15	0	14.57



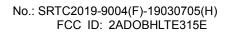


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	16.42
	10E0 E	10605		1	24	16.42
	1852.5	18625		12	6	15.64
				25	0	15.53
				1	0	16.40
ODCK	1000	19000	5	1	24	16.40
QPSK	1880	18900) 3	12	6	15.66
				25	0	15.57
			1	1	0	16.41
	1007 F	10175		1	24	16.41
	1907.5	19175		12	6	15.72
				25	0	15.64
	Carrier frequency UL	1.11		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(IVII IZ)			Size	Oliset	(dBm)
	1852.5	18625		1	0	15.67
				1	24	15.67
				12	6	14.55
				25	0	14.47
				1	0	15.70
16QAM	1880	18900	5	1	24	15.70
TOQAW		10300		12	6	14.64
				25	0	14.50
	1907.5	19175		1	0	15.72
				1	24	15.72
				12	6	14.69
				25	0	14.63
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC		(dBm)
				11	0	15.42
	1852.5	18625		11	24	15.42
	1002.0	10025		12	6	14.53
				25	0	14.45
				1	0	15.44
64QAM	1880	18900	5	1	24	15.44
U-TQ/AIVI	1000	10300		12	6	14.56
]	25	0	14.49
				1	0	15.49
	1007 5	19175		1	24	15.49
	1907.5			12	6	14.60
				25	0	14.56





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	16.48
	1055	10650		1	49	16.48
	1855	18650		24	12	15.70
				50	0	15.59
			1	1	0	16.46
QPSK	1000	19000	10	1	49	16.46
QPSK	1880	18900	10	24	12	15.72
				50	0	15.63
			1	1	0	16.47
	1005	10150		1	49	16.47
	1905	19150		24	12	15.78
				50	0	15.70
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(IVII IZ)			Size	Oliset	(dBm)
	1855	18650		1	0	15.73
				1	49	15.73
				24	12	14.61
				50	0	14.53
				1	0	15.76
16QAM	1880	18900	10	1	49	15.76
IOQAW		10300	10	24	12	14.70
				50	0	14.56
	1905	19150		1	0	15.78
				1	49	15.78
				24	12	14.75
				50	0	14.69
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Chamilei		SIZE	Oliset	(dBm)
				1	0	15.48
	1855	18650		1	49	15.48
	1000	10030		24	12	14.59
				50	0	14.51
				1	0	15.50
64QAM	1880	18900	10	1	49	15.50
U4QAIVI	1000	10800	10	24	12	14.62
			_	50	0	14.55
	-		- - -	1	0	15.55
	4005	19150		1	49	15.55
	1905			24	12	14.66
			<u> </u>	50	0	14.62





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	16.52
	1857.5	18675		1	74	16.52
	1007.5	16075		40	18	15.74
				75	0	15.63
				1	0	16.50
QPSK	1880	18900	15	1	74	16.50
QFOR	1000	10900	13	40	18	15.76
				75	0	15.67
				1	0	16.51
	1002.5	19125		1	74	16.51
	1902.5	19125		40	18	15.82
				75	0	15.74
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Charmer		Size	Oliset	(dBm)
	1857.5	18675	-	1	0	15.77
				1	74	15.77
				40	18	14.65
				75	0	14.57
				1	0	15.80
16QAM	1880	18900	15	1	74	15.80
IOQAW		10300	13	40	18	14.74
				75	0	14.60
	1902.5	19125		1	0	15.81
				1	74	15.81
				40	18	14.79
				75	0	14.73
	Carrier frequency	UL		DD	RB	Conducted
Modulation	Carrier frequency	Channel	BW	RB Size	Offset	power
	(MHz)	Charmer		Size	Oliset	(dBm)
				1	0	15.52
	1857.5	18675		1	74	15.52
	0.7001	10075		40	18	14.63
				75	0	14.55
]	1	0	15.54
640484	1000	10000	15	1	74	15.54
64QAM	1880	18900	15	40	18	14.66
				75	0	14.59
]	1	0	15.59
	1902.5	19125	-	1	74	15.59
				40	18	14.70
				75	0	14.66





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	16.54
	1860	18700		1	99	16.54
	1000	16700		50	25	15.76
				100	0	15.65
	1880	18000	1	1	0	16.52
QPSK			20	1	99	16.52
QPSK		18900	20	50	25	15.78
				100	0	15.69
			1	1	0	16.53
	1000	10100		1	99	16.53
	1900	19100		50	25	15.84
				100	0	15.76
	Carrier frequency	UL		DD	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	RB Size	Offset	power
	(IVII IZ)	Charmer		Size	Oliset	(dBm)
	1860	18700		1	0	15.79
				1	99	15.79
				50	25	14.67
				100	0	14.59
				1	0	15.82
16QAM	1880	18900	20	1	99	15.82
IOQAW	1660	10300	20	50	25	14.76
				100	0	14.62
	1900	19100		1	0	15.84
				1	99	15.84
				50	25	14.81
				100	0	14.75
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC	Oliset	(dBm)
				1	0	15.54
	1860	18700		1	99	15.54
	1000	10700		50	25	14.65
				100	0	14.57
				1	0	15.56
64QAM	1880	18900	20	1	99	15.56
UTQ/NIVI	1000	10300	20	50	25	14.68
			_[100	0	14.61
				1	0	15.61
	1000	19100	-	1	99	15.61
	1900			50	25	14.72
				100	0	14.68

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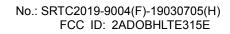
LTE band4

	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power (dBm)
				1	0	19.21
	47407	40057		1	5	19.21
	1710.7	19957		3	2	18.39
				6	0	18.30
				1	0	19.18
00014	4700 5	00475		1	5	19.18
QPSK	1732.5	20175	1.4	3	2	18.36
				6	0	18.25
			1	1	0	19.16
	4754.0	00000		1	5	19.16
	1754.3	20393		3	2	18.31
				6	0	18.22
	0			DD	DD	Conducted
Modulation	Carrier frequency	UL Channel	BW	RB	RB Offerst	power
	(MHz)			Size	Offset	(dBm)
				1	0	18.52
	4740.7	40057		1	5	18.52
	1710.7	19957		3	2	17.45
				6	0	17.37
			1	1	0	18.50
400 414	1732.5	00475		1	5	18.50
16QAM		20175	1.4	3	2	17.42
				6	0	17.33
	4== 4.0	20393		1	0	18.47
				1	5	18.47
	1754.3			3	2	17.40
				6	0	17.29
	0			DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB Offerst	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	18.23
	4740 7	40057		1	5	18.23
	1710.7	19957		3	2	17.39
				6	0	17.35
				1	0	18.22
040014	4700 5	00475	, ,	1	5	18.22
64QAM	1732.5	20175	1.4	3	2	17.37
				6	0	17.32
				1	0	18.20
	1754.3	20393		1	5	18.20
				3	2	17.36
				6	0	17.29





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	19.19
	1711.5	19965		1	14	19.19
	17 11.5	19905		8	4	18.37
				15	0	18.28
		20175] [1	0	19.16
QPSK	1732.5		3	1	14	19.16
QFSK	1732.5) J	8	4	18.34
				15	0	18.23
				1	0	19.14
	1753.5	00005		1	14	19.14
	1755.5	20385		8	4	18.29
				15	0	18.20
	Carrier frequency	1.11		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	UL Channel	BW	Size	Offset	power
	(IVIIIZ)	Charmer		Size	Oliset	(dBm)
		19965		1	0	18.50
	1711.5			1	14	18.50
	1711.5			8	4	17.42
				15	0	17.34
				1	0	18.45
160414	1732.5	20175	3	1	14	18.45
16QAM	1732.5	20173	3	8	4	17.37
				15	0	17.28
	1753.5	20385		1	0	18.42
				1	14	18.42
				8	4	17.35
				15	0	17.24
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL Channel	BW	RB Size	RB Offset	power
	(MHz)	Charine		Size	Oliset	(dBm)
				1	0	18.18
	1711.5	10065		1	14	18.18
	1711.5	19965		8	4	17.33
				15	0	17.29
			1	1	0	18.16
64001	1722 5	20175	3	1	14	18.16
64QAM	1732.5	20175	၂ ၁	8	4	17.31
				15	0	17.26
] [1	0	18.14
	47E0 F	20385	-	1	14	18.14
	1753.5			8	4	17.30
				15	0	17.23





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	19.17
	1712.5	19975		1	24	19.17
	17 12.5	19975		12	6	18.35
				25	0	18.26
		20175] [1	0	19.14
QPSK	1732.5		5	1	24	19.14
QFSK	1732.5		5	12	6	18.32
				25	0	18.21
				1	0	19.12
	1750 F	00075		1	24	19.12
	1752.5	20375		12	6	18.29
				25	0	18.20
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(IVII IZ)	Charmer		Size	Oliset	(dBm)
		19975		1	0	18.50
	1712.5			1	24	18.50
	17 12.5			12	6	17.42
				25	0	17.34
				1	0	18.46
16QAM	1732.5	20175	5	1	24	18.46
IOQAW	1732.3	20173	5	12	6	17.38
				25	0	17.29
	1752.5	20375		1	0	18.43
				1	24	18.43
				12	6	17.36
				25	0	17.25
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Orianne		OIZC	Oliset	(dBm)
				1	0	18.19
	1712.5	19975		1	24	18.19
	1712.5	19913		12	6	17.34
				25	0	17.30
				1	0	18.17
64QAM	1732.5	20175	5	1	24	18.15
UTQ/IVI	II JZ.J	20173		12	6	17.30
] [25	0	17.25
				1	0	18.13
	1752.5	20375		1	24	18.13
				12	6	17.29
				25	0	17.22





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	19.21
	1715	20000		1	49	19.21
	17 15	20000		24	12	18.39
				50	0	18.29
] [1	0	19.17
QPSK	1732.5	20175	10	1	49	19.17
QPSK	1732.3	20175	10	24	12	18.35
				50	0	18.24
] [1	0	19.15
	1750	20250		1	49	19.15
	1750	20350		24	12	18.30
				50	0	18.21
	Carrier frequency	UL		DD	RB	Conducted
Modulation	Carrier frequency (MHz)		BW	RB Size	Offset	power
	(IVITIZ)	Channel		Size	Oliset	(dBm)
				1	0	18.51
	1715	20000		1	49	18.51
	1715	20000		24	12	17.43
				50	0	17.34
				1	0	18.47
16QAM	1732.5	20175	10	1	49	18.47
IOQAW	1732.5	20175	10	24	12	17.39
				50	0	17.30
				1	0	18.44
	1750	20350		1	49	18.44
	1750	20350		24	12	17.37
				50	0	17.26
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1411 12)	Onamici		OIZC		(dBm)
				1	0	18.20
	1715	20000		1	49	18.20
	17 10	20000		24	12	17.35
]	50	0	17.31
				1	0	18.16
64QAM	1732.5	20175	10	1	49	18.16
UTQ/NIVI	1102.0	20170	10	24	12	17.31
			<u> </u>	50	0	17.26
				1	0	18.14
	1750	20350		1	49	18.14
	1/50	20300		24	12	17.30
				50	0	17.23

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	1717.5			1	0	19.25
		20025		1	74	19.25
		20025		40	18	18.43
				75	0	18.34
] [1	0	19.22
QPSK	1732.5	20175	15	1	74	19.22
QFOR	1732.3	20173		40	18	18.40
				75	0	18.29
				1	0	19.20
	1747.5	20325		1	74	19.20
	1747.5	20325		40	18	18.35
				75	0	18.26
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)		BW	Size	Offset	power
	(IVITZ)	Channel		Size	Oliset	(dBm)
				1	0	18.52
	1717.5	20025		1	74	18.52
	1717.5	20023		40	18	17.44
				75	0	17.36
] [1	0	18.49
16QAM	1732.5	20175	15	1	74	18.49
IOQAW	1732.3	20175	15	40	18	17.41
				75	0	17.32
] [1	0	18.46
	1747 5	20225		1	74	18.46
	1747.5	20325		40	18	17.39
				75	0	17.28
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Charine		SIZE	Oliset	(dBm)
				1	0	18.22
	1717.5	20025		1	74	18.22
	1717.5	20025		40	18	17.37
				75	0	17.32
] [1	0	18.19
64QAM	1732.5	20175	15	1	74	18.19
U+QAIVI	1132.3	20173	10	40	18	17.34
				75	0	17.29
	-			1	0	18.17
	1717 5	20225		1	74	18.17
	1747.5	20325		40	18	17.33
				75	0	17.26

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	1720	20050		1	0	19.28
				1	99	19.28
				50	25	18.46
				100	0	18.37
				1	0	19.25
QPSK	1732.5	20175	20	1	99	19.25
QFSK	1732.3	20173	20	50	25	18.43
				100	0	18.32
				1	0	19.23
	1745	20300		1	99	19.23
	1745	20300		50	25	18.38
				100	0	18.29
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(IVII 1Z)	Charine		Size	Oliset	(dBm)
	1720	20050	<u> </u>	1	0	18.59
				1	99	18.59
			- -	50	25	17.51
				100	0	17.43
				1	0	18.56
16QAM	1732.5	20175	20	1	99	18.56
IOQAW	1702.0	20170	20	50	25	17.48
				100	0	17.39
				1	0	18.53
	1745	20300		1	99	18.53
	1743			50	25	17.46
				100	0	17.35
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1411 12)	Onamici		OIZC		(dBm)
				1	0	18.29
	1720	20050		1	99	18.29
	1720	20000		50	25	17.44
				100	0	17.40
				1	0	18.27
64QAM	1732.5	20175	20	1	99	18.27
O-T-Q/ (IVI	1102.0	20170	20	50	25	17.42
				100	0	17.37
	1745	20300		11	0	18.25
				1	99	18.25
				50	25	17.41
				100	0	17.34



LTE band5

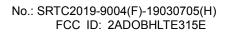
	Carrier frequency	UL	DW	RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power (dBm)
				1	0	23.29
	004.7	20407		1	5	23.29
	824.7			3	2	22.36
				6	0	22.22
			1	1	0	23.26
ODOK	000 5	00505		1	5	23.26
QPSK	836.5	20525	1.4	3	2	22.32
				6	0	22.14
				1	0	23.21
	0.40.0	00040		1	5	23.21
	848.3	20643		3	2	22.27
				6	0	22.15
	0				55	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.64
	004.7	20407	-	1	5	22.64
	824.7			3	2	21.30
				6	0	21.15
			1	1	0	22.56
				1	5	22.56
16QAM	836.5	20525	1.4	3	2	21.23
				6	0	21.11
			1	1	0	22.55
	2.42.2	20643		1	5	22.55
	848.3			3	2	21.24
				6	0	21.10
	0			DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.57
	004.7	20407		1	5	22.64
	824.7	20407		3	2	21.24
				6	0	21.20
			1	1	0	22.61
640084	006 E	20525	4 4	1	5	22.61
64QAM	836.5	20525	1.4	3	2	21.19
				6	0	21.17
]	1	0	22.60
	0.40.0	20643		1	5	22.60
	848.3			3	2	21.17
				6	0	21.15





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	825.5			1	0	23.21
		20415		1	14	23.21
		20413		8	4	22.28
				15	0	22.14
				1	0	23.18
QPSK	836.5	20525	3	1	14	23.18
QFOR	030.3	20323		8	4	22.24
				15	0	22.12
				1	0	23.19
	847.5	20635		1	14	23.19
	047.5	20033		8	4	22.25
				15	0	22.13
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Channel		Size	Oliset	(dBm)
	825.5	20415		1	0	22.62
				1	14	22.62
				8	4	21.28
				15	0	21.17
				1	0	22.58
16QAM	836.5	20525	3	1	14	22.58
IOQAW	030.3	20323		8	4	21.28
				15	0	21.16
				1	0	22.60
	847.5	20635		1	14	22.60
	047.3	20035		8	4	21.29
				15	0	21.15
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC		(dBm)
				1	0	22.62
	825.5	20415		1	14	22.57
	020.0	20413		8	4	21.17
			<u> </u>	15	0	21.13
				1	0	22.54
64QAM	836.5	20525	3	1	14	22.54
UTQAW	000.0	20020	5	8	4	21.12
] [15	0	21.10
				1	0	22.53
	Q <i>1</i> 7 5	20625		1	14	22.53
	847.5	20635		8	4	21.10
				15	0	21.08

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	826.5			1	0	23.24
		20425		1	24	23.24
		20420		12	6	22.31
				25	0	22.17
				1	0	23.21
QPSK	836.5	20525	5	1	24	23.21
QI OIX	000.0	20020		12	6	22.27
				25	0	22.13
				1	0	23.19
	846.5	20625		1	24	23.19
	040.5	20023		12	6	22.25
				25	0	22.13
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC		(dBm)
	826.5	20425		1	0	22.62
				1	24	22.62
				12	6	21.28
				25	0	21.19
				1	0	22.60
16QAM	836.5	20525	5	1	24	22.60
IOQAW	000.0	20323		12	6	21.27
				25	0	21.15
				1	0	22.59
	846.5	20625		1	24	22.59
	040.3	20025		12	6	21.28
				25	0	21.14
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Orianne		OIZC	Oliset	(dBm)
				1	0	22.61
	826.5	20425		1	24	22.60
	020.5	20423		12	6	21.20
				25	0	21.16
				1	0	22.57
64QAM	836.5	20525	5	1	24	22.57
U+QAIVI	000.0	20020	5	12	6	21.15
			<u> </u>	25	0	21.13
				1	0	22.56
	946 5	20625		1	24	22.56
	846.5	20625		12	6	21.13
				25	0	21.11

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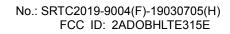


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	829	20450		1	0	23.32
				1	49	23.32
	029	20450		24	12	22.39
				50	0	22.25
			1	1	0	23.29
QPSK	836.5	20525	10	1	49	23.29
QP3N	0.00.0	20525	10	24	12	22.35
				50	0	22.21
			1	1	0	23.28
	044	20600		1	49	23.28
	844	20600		24	12	22.34
				50	0	22.22
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB Offset	power
(MHz)	(IVITZ)	Channel		Size	Oliset	(dBm)
				1	0	22.71
	020	20450		1	49	22.71
	829	20450		24	12	21.37
				50	0	21.26
			1	1	0	22.67
400 414	000 5	00505	1	1	49	22.67
16QAM	836.5	20525	10	24	12	21.34
				50	0	21.22
			1	1	0	22.66
	044	00000		1	49	22.66
	844	20600		24	12	21.35
				50	0	21.21
	0	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.68
	000	20450		1	49	22.68
	829	20450		24	12	21.28
				50	0	21.24
			1	1	0	22.65
040454	000 5	00505	40	1	49	22.65
64QAM	836.5	20525	10	24	12	21.23
				50	0	21.21
			1	1	0	22.64
	0.4.4	00000		1	49	22.64
	844	20600		24	12	21.21
				50	0	21.19



LTE band7

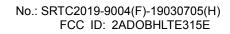
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power
	(1711 12)	Chamilei		0126	Oliset	(dBm)
	2502.5			1	0	15.43
		20775		1	24	15.43
				12	6	14.64
				25	0	14.60
				1	0	15.37
QPSK	2535	21100	5	1	24	15.37
QFSK	2333	21100		12	6	14.56
				25	0	14.53
] [1	0	15.22
	0E67 E	24425		1	24	15.22
	2567.5	21425		12	6	14.51
				25	0	14.43
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
(IVIF	(IVII IZ)	Charine		5120	Oliset	(dBm)
	2502.5	20775		1	0	14.77
				1	24	14.75
	2002.0			12	6	13.59
				25	0	13.57
] [1	0	14.65
160 4 14	2525	21100	_ [1	24	14.65
16QAM	2535	21100	5	12	6	13.49
				25	0	13.47
			1	1	0	14.57
	2567.5	21425		1	24	14.57
				12	6	13.42
				25	0	13.34
	Corrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	14.69
	2502 F	20775		1	24	14.67
	2502.5	20775		12	6	13.48
				25	0	13.39
				1	0	14.59
640014	2525	21100	_	1	24	14.59
64QAM	2535	21100	5	12	6	13.43
				25	0	13.40
]	1	0	14.50
	0507.5	04.405		1	24	14.52
	2567.5	21425		12	6	13.39
				25	0	13.31





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	2505	20800		1	0	15.41
				1	49	15.41
				24	12	14.62
				50	0	14.58
] [1	0	15.35
QPSK	2535	21100	10	1	49	15.35
QFSK	2000	21100	10	24	12	14.55
				50	0	14.52
			1	1	0	15.21
	OFCE	21400		1	49	15.21
	2565	21400		24	12	14.50
				50	0	14.42
	Corrier frequency	111		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Ci s o	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	14.76
	2505	20800	-	1	49	14.76
				24	12	13.58
				50	0	13.56
			1	1	0	14.64
400 444	0505	04400	1	1	49	14.64
16QAM	2535	21100	10	24	12	13.48
					50	0
			1	1	0	14.56
	0505	21400		1	49	14.56
	2565			24	12	13.41
				50	0	13.33
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power
	(1711 12)	Charine		Size	Oliset	(dBm)
				1	0	14.68
	2505	20800		1	49	14.68
	2505	20600		24	12	13.50
				50	0	13.41
] [1	0	14.61
640004	2525	24400	10	1	49	14.61
64QAM	2535	21100	10	24	12	13.45
				50	0	13.42
		21400	1	1	0	14.52
	0505			1	49	14.52
	2565			24	12	13.39
				50	0	13.31

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	15.45
	2507.5	00005		1	74	15.45
		20825		40	18	14.66
				75	0	14.62
			1	1	0	15.39
ODOK	0505	04400	45	1	74	15.39
QPSK	2535	21100	15	40	18	14.58
				75	0	14.51
			1	1	0	15.20
	0500 5	04075		1	74	15.20
	2562.5	21375		40	18	14.49
				75	0	14.41
	0 : (DD	55	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	14.75
	0507.5	00005		1	74	14.75
	2507.5	20825		40	18	13.59
				75	0	13.53
			1	1	0	14.61
				<u>·</u>	74	14.61
16QAM	2535	21100	15	40	18	13.45
				75	0	13.43
			1	1	0	14.53
				<u>·</u> 1	74	14.53
	2562.5	21375		40	18	13.38
				75	0	13.30
						Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	14.65
	0-0-	0005-		.	74	14.72
	2507.5	20825		40	18	13.53
				75	0	13.44
			†	1	0	14.64
				1	74	14.64
64QAM	2535	21100	15	40	18	13.48
				75	0	13.45
			 	1	0	14.55
				'	74	14.55
	2562.5	21375		40	18	13.42
				75	0	13.34



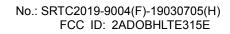


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	15.48
	2510	20850		1	99	15.48
	2310	20650		50	25	14.69
				100	0	14.65
			1	1	0	15.42
QPSK	2535	21100	20	1	99	15.42
QPSK	2000	21100	20	50	25	14.61
				100	0	14.58
			1	1	0	15.27
	2560	24250		1	99	15.27
	2560	21350		50	25	14.56
				100	0	14.48
	Carrier frequency	UL		DD	RB	Conducted
Modulation	Carrier frequency	Channel	BW	RB Size	Offset	power
	(MHz)	Channel		Size	Oliset	(dBm)
				1	0	14.82
	2510	20850		1	99	14.82
	2310	20030		50	25	13.66
				100	0	13.64
] [1	0	14.72
16QAM	2535	21100	20	1	99	14.72
IOQAW	2000	21100	20	50	25	13.56
				100	0	13.54
				1	0	14.64
	2560	21350		1	99	14.64
	2500	21350		50	25	13.49
				100	0	13.41
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC	Oliset	(dBm)
				1	0	14.76
	2510	20850		1	99	14.76
	2310	20030		50	25	13.57
				100	0	13.48
				1	0	14.68
64QAM	2535	21100	20	1	99	14.68
U4QAIVI	2555	21100	20	50	25	13.52
] [100	0	13.49
				1	0	14.59
	2560	21250		1	99	14.59
	2000	21350		50	25	13.46
				100	0	13.38



LTE band12

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
	699.7	23017		1 1 3	0 5 2	23.25 23.25 22.36	
QPSK	QPSK 707.5 23095 1.	1.4	6 1 1 3	0 0 5 2	22.23 23.22 23.22 22.34		
			-	6 1 1	0 0 5	22.34 22.17 23.17 23.17	
	715.3	23173		3	0	22.31 22.16 Conducted	
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	power (dBm) 22.32	
	699.7	23017		1 3 6	5 2 0	22.32 21.31 21.23	
16QAM	707.5	23095	23095	1.4	1 1 3	0 5 2	22.27 22.27 21.24
	715.3	23173	-	6 1 1 3	0 0 5 2	21.16 22.26 22.26 21.23	
Modulation	Carrier frequency (MHz)	UL Channel	BW	6 RB Size	0 RB Offset	21.14 Conducted power (dBm)	
	699.7	23017		1 1 3 6	0 5 2 0	22.17 22.17 21.25 21.19	
64QAM	707.5	23095	1.4	1 1 3 6	0 5 2	22.19 22.19 21.27 21.16	
	715.3	23173	-	1 1 3	0 5 2	22.18 22.18 21.26	





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.24
	700.5	23025		1	14	23.24
	700.5	23025		8	4	22.35
				15	0	22.22
				1	0	23.21
QPSK	707.5	23095	3	1	14	23.21
QFOR	101.5	23093		8	4	22.33
				15	0	22.16
				1	0	23.16
	714.5	23165		1	14	23.16
	7 14.5	23103		8	4	22.30
				15	0	22.15
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Orianinci		OIZC	Oliset	(dBm)
	700.5			1	0	22.30
		23025		1	14	22.30
	700.5	23025		8	4	21.29
				15	0	21.21
	707.5	23095	3	1	0	22.29
16QAM				1	14	22.29
IOQAW				8	4	21.26
				15	0	21.18
	714.5	23165		1	0	22.28
				1	14	22.28
				8	4	21.22
				15	0	21.13
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC		(dBm)
				1	0	22.16
	700.5	23025		1	14	22.16
	700.5	23023		8	4	21.24
64QAM			3	15	0	21.15
				1	0	22.15
	707 5	23095		1	14	22.15
	707.5	20030		8	4	21.23
				15	0	21.12
	714.5	23165		1	0	22.14
				1	14	22.14
				8	4	21.22
				15	0	21.11

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.22
	701.5	23035		1	24	23.22
	701.5	23035		12	6	22.33
			-	25	0	22.20
				1	0	23.19
QPSK	707.5	23095	5	1	24	23.19
QPSK	707.5	23095	5	12	6	22.31
				25	0	22.16
] [1	0	23.16
	740 E	22455	-	1	24	23.16
	713.5	23155	-	12	6	22.30
			-	25	0	22.15
	Carrier frequency	UL		DD	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	RB Size	Offset	power
	(IVITZ)	Charmer		Size	Oliset	(dBm)
				1	0	22.31
	701.5	23035		1	24	22.29
	701.5	23035		12	6	21.28
				25	0	21.20
	707.5	23095	5	1	0	22.28
160414				1	24	22.28
16QAM				12	6	21.25
				25	0	21.17
	713.5	23155		1	0	22.27
				1	24	22.27
				12	6	21.24
				25	0	21.15
	Carrier frequency	1.01		DD	DD	Conducted
Modulation	Carrier frequency	UL Channel	BW	RB Size	RB Offset	power
	(MHz)	Charine		Size	Oliset	(dBm)
				1	0	22.18
	701.5	22025		1	24	22.16
	701.5	23035		12	6	21.24
64QAM			5	25	0	21.15
	707.5			1	0	22.15
		23095		1	24	22.15
				12	6	21.23
				25	0	21.12
	713.5	23155		1	0	22.14
				1	24	22.16
				12	6	21.24
				25	0	21.13

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.27
	704	23060		1	49	23.27
	704	23000		24	12	22.38
				50	0	22.25
				1	0	23.24
QPSK	707.5	23095	10	1	49	23.24
QFSK	707.5	23093	10	24	12	22.36
				50	0	22.21
			1	1	0	23.21
	744	22420		1	49	23.21
	711	23130		24	12	22.35
				50	0	22.20
	Consion from	111		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Ci s o	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
	704		-	1	0	22.36
		22000		1	49	22.36
		23060		24	12	21.35
				50	0	21.27
	707.5	23095	10	1	0	22.35
400 444				1	49	22.35
16QAM				24	12	21.32
				50	0	21.24
	711	23130		1	0	22.34
				1	49	22.34
				24	12	21.31
				50	0	21.22
	0 : (Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.25
		00000		1	49	22.25
	704	23060		24	12	21.33
64QAM				50	0	21.24
			1	1	0	22.24
	707.5	0000=	10	1	49	22.24
		23095		24	12	21.32
				50	0	21.21
ŀ	711	23130		1	0	22.23
				.	49	22.23
				24 50	12 0	21.31 21.20

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	20.19
	4740.7	404070		1	5	20.19
	1710.7	131979		3	2	19.46
				6	0	19.35
			1	1	0	20.15
ODOK	4745		, .	1	5	20.15
QPSK	1745	132322	1.4	3	2	19.40
				6	0	19.30
			1	1	0	20.32
	4770.0	40000		1	5	20.32
	1779.3	132665		3	2	19.53
				6	0	19.44
Modulation	Carrier	UL Channel	BW	RB Size	RB Offset	Conducted
Modulation	frequency (MHz)	OL Channel	DVV	IND SIZE	KD Oliset	power (dBm)
	(1011 12)			1	0	19.50
				1	5	19.50
	1710.7	131979		3	2	18.42
				6	0	18.29
	1745	132322	1.4	1	0	19.44
				1	5	19.43
16QAM				3	2	18.33
				6	0	18.22
	1779.3	132665		1	0	19.54
				1	5	19.45
				3	2	18.46
				6	0	18.40
	Carrier					Conducted
Modulation	frequency	UL Channel	BW	RB Size	RB Offset	power
	(MHz)					(dBm)
	, ,			1	0	19.39
	4740 7	404070		1	5	19.39
	1710.7	131979		3	2	18.31
				6	0	18.23
			1	1	0	19.39
640014	4745	42222	1 1	1	5	19.39
64QAM	1745	132322	1.4	3	2	18.27
				6	0	18.16
	1779.3 132665	}	1	0	19.53	
			1	5	19.53	
		132665	F	3	2	18.42
				6	0	18.34





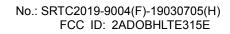
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	20.16
	1711.5	131987		1	14	20.16
	1711.0	101007		8	4	19.43
			_	15	0	19.32
				1	0	20.12
QPSK	1745	132322	3	1	14	20.12
Qi Oit	17 10	102022		8	4	19.37
				15	0	19.29
				1	0	20.31
	1778.5	132657		1	14	20.31
	1770.0	102001		8	4	19.52
				15	0	19.43
	Carrier frequency	UL	BW	RB	RB	Conducted
Modulation	(MHz)	Channel		Size	Offset	power
	(=)	G.1.G.11.101				(dBm)
	1711.5			1	0	19.49
		131987		1	14	19.49
		131307		8	4	18.41
				15	0	18.28
	1745	132322	3	1	0	19.46
16QAM				1	14	19.45
10071111				8	4	18.35
				15	0	18.24
	1778.5			1	0	19.56
		132657		1	14	19.47
		132037		8	4	18.48
				15	0	18.42
	Carrier frequency	UL Channel		RB	RB	Conducted
Modulation	(MHz)		BW	Size	Offset	power
	(141112)	oname:				(dBm)
				1	0	19.41
	1711.5	131987		1	14	19.41
		10.007		8	4	18.33
			3	15	0	18.21
64QAM	1745			1	0	19.37
		132322		1	14	19.37
		132322		8	4	18.25
				15	0	18.14
	1778.5	132657		11	0	19.51
				1	14	19.51
				8	4	18.40
				15	0	18.32

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	20.13
	4740 E	121007	-	1	24	20.13
	1712.5	131997	-	12	6	19.40
			-	25	0	19.29
				1	0	20.09
ODCK	1745	42222	_	1	24	20.09
QPSK	1745	132322	5	12	6	19.34
			-	25	0	19.26
				1	0	20.28
	4777 5	400047	-	1	24	20.28
	1777.5	132647	-	12	6	19.49
			-	25	0	19.40
	Camian francisco	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB Offset	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	19.46
	4740 E	121007	-	1	24	19.46
	1712.5	131997	-	12	6	18.39
			-	25	0	18.26
	1745	132322	5	1	0	19.45
400 414				1	24	19.44
16QAM				12	6	18.34
				25	0	18.23
	1777.5	132647		1	0	19.55
				1	24	19.46
				12	6	18.50
				25	0	18.44
	0	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB Officet	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	19.43
	4 7 40 F	404007		1	24	19.43
	1712.5	131997	-	12	6	18.35
				25	0	18.24
				1	0	19.40
64QAM	1745	400000	5	1	24	19.40
		132322		12	6	18.28
				25	0	18.17
	1777.5	132647		1	0	19.54
				<u>·</u> 1	24	19.54
				12	6	18.43
				25	0	18.35



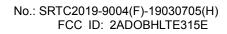


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
		132022		1	0	20.12
	1715			1	49	20.12
	1710			24	12	19.39
				50	0	19.28
				1	0	20.08
QPSK	1745	132322	10	1	49	20.08
QFOR	1743	132322	10	24	12	19.33
				50	0	19.25
				1	0	20.27
	1775	132622		1	49	20.27
	1775	132022		24	12	19.48
				50	0	19.39
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Channel		Size	Oliset	(dBm)
	1715	132022	_	1	0	19.45
				1	49	19.45
				24	12	18.37
				50	0	18.28
				1	0	19.47
16QAM	1745	132322	10	1	49	19.46
IOQAW	1743	102022	10	24	12	18.36
				50	0	18.25
		132622		1	0	19.57
	1775			1	49	19.48
				24	12	18.49
				50	0	18.43
	Carrier frequency	UL		DD	RB	Conducted
Modulation	Carrier frequency	Channel	BW	RB Size	Offset	power
	(MHz)	Charmer		Size	Oliset	(dBm)
				1	0	19.42
	1715	132022		1	49	19.42
	17 15	132022		24	12	18.33
				50	0	18.22
] [1	0	19.38
640414	1745	132322	10	1	49	19.38
64QAM	1745	132322	10	24	12	18.26
				50	0	18.15
		132622] [1	0	19.52
	177E			1	49	19.52
	1775			24	12	18.41
				50	0	18.33





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	20.10
	1717.5	132047		1	74	20.10
	1/1/.5	132047		40	18	19.37
				75	0	19.26
] [1	0	20.06
QPSK	1745	132322	15	1	74	20.06
QFOR	1743	132322	13	40	18	19.31
				75	0	19.23
				1	0	20.25
	1772.5	122507		1	74	20.25
	1772.5	132597		40	18	19.46
				75	0	19.37
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency	Channel	BW	Size	Offset	power
	(MHz)	Channel		Size	Oliset	(dBm)
	1717.5	132047		1	0	19.43
				1	74	19.43
				40	18	18.35
				75	0	18.28
			1	1	0	19.47
160414	1745	132322	15	1	74	19.46
16QAM	1743	132322	15	40	18	18.33
				75	0	18.22
	1772.5	132597		1	0	19.54
				1	74	19.45
				40	18	18.46
				75	0	18.40
	Carrier frequency	1.01		DD	RB	Conducted
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	Offset	power
	(1711 12)	Charmer		Size	Oliset	(dBm)
				1	0	19.39
	1717 5	122047		1	74	19.39
	1717.5	132047		40	18	18.31
				75	0	18.20
			1	1	0	19.36
640014	171E	12222	1.5	1	74	19.36
64QAM	1745	132322	15	40	18	18.23
				75	0	18.12
			1	1	0	19.49
	4770 5	132597		1	74	19.49
	1772.5			40	18	18.38
				75	0	18.30





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	20.21
	1720	122072		1	99	20.21
	1720	132072		50	25	19.48
				100	0	19.37
				1	0	20.17
QPSK	1745	132322	20	1	99	20.17
QFSK	1745	132322	20	50	25	19.42
				100	0	19.34
] [1	0	20.36
	1770	132572		1	99	20.36
	1770	132372		50	25	19.57
				100	0	19.48
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(IVII IZ)	Charmer		SIZE	Oliset	(dBm)
	1720	132072		1	0	19.54
				1	99	19.54
				50	25	18.46
				100	0	18.33
				1	0	19.52
16QAM	1745	132322	20	1	99	19.51
IOQAW	1743	132322	20	50	25	18.41
				100	0	18.30
		132572		1	0	19.62
	1770			1	99	19.53
				50	25	18.54
				100	0	18.48
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC		(dBm)
				1	0	19.47
	1720	132072		1	99	19.47
	1720	102072		50	25	18.39
]	100	0	18.28
				1	0	19.44
64QAM	1745	132322	20	1	99	19.44
UTQ/NIVI	1775	102022	20	50	25	18.32
]	100	0	18.21
				1	0	19.58
	1770	132572	-	1	99	19.58
	1770			50	25	18.47
				100	0	18.39

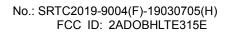
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Down Antenna

LTE band2

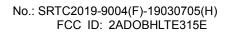
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	1850.7	18607		1 1 3	0 5 2	23.46 23.46 22.68
			_	6 1 1	0 0 5	22.57 23.44 23.44
QPSK	1880	18900	1.4	3 6	2 0	22.70 22.61
	1909.3	19193		1 1 3	0 5 2	23.45 23.45 22.76
	Carrier frequency	UL DVA		6 RB	0 RB	22.68 Conducted
Modulation	(MHz)	Channel	BW	Size	Offset 0	power (dBm) 22.71
	1850.7	18607 18900		1 3 6	5 2 0	22.71 22.71 21.59 21.51
16QAM	1880		1.4	1 1 3	0 5 2	22.74 22.74 21.68
	1909.3	19193		6 1 1	0 0 5	21.54 22.76 22.76
				3 6	0	21.73 21.67
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	1850.7	18607		1 1 3 6	0 5 2 0	22.46 22.46 21.57 21.49
64QAM	1880	18900	1.4	1 1 3 6	0 5 2	22.48 22.48 21.60 21.53
	1909.3	19193	1	1 1 3 6	0 5 2	22.53 22.53 21.64 21.60





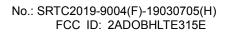
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.43
	1851.5	18615		1	14	23.43
	1001.0	10013		8	4	22.65
				15	0	22.54
				1	0	23.41
QPSK	1880	18900	3	1	14	23.41
QI OIX	1000	10300		8	4	22.67
				15	0	22.58
				1	0	23.42
	1908.5	19185		1	14	23.42
	1900.5	19105		8	4	22.73
				15	0	22.65
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(IVIIIZ)	Charmer		OIZC	Oliset	(dBm)
	1851.5	18615		1	0	22.68
				1	14	22.68
				8	4	21.56
				15	0	21.48
				1	0	22.71
16QAM	1880	18900	3	1	14	22.71
IOQAW	1000	10900) J	8	4	21.65
				15	0	21.51
	1908.5	19185		1	0	22.73
				1	14	22.73
				8	4	21.70
				15	0	21.64
	Carrier frequency	1.11		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	UL Channel	BW	Size	Offset	power
	(1711 12)	Charine		Size	Oliset	(dBm)
				1	0	22.43
	1851.5	18615		1	14	22.43
	001.0	10013		8	4	21.54
				15	0	21.46
]	1	0	22.45
64001	1880	18900	3	1	14	22.45
64QAM	1000	10900	၂ ၁	8	4	21.57
				15	0	21.50
		19185] [1	0	22.50
	1908.5			1	14	22.50
				8	4	21.61
				15	0	21.57

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
		18625		1	0	23.42
	10E0 E		Ī	1	24	23.42
	1852.5			12	6	22.64
				25	0	22.53
				1	0	23.40
ODCK	1000	19000	_	1	24	23.40
QPSK	1880	18900	5	12	6	22.66
			Ī	25	0	22.57
				1	0	23.41
	1007 E	10175	Ī	1	24	23.41
	1907.5	19175	Ī	12	6	22.72
			Ī	25	0	22.64
	Carrier frequency	UL		DD	RB	Conducted
Modulation	Carrier frequency		BW	RB Size	Offset	power
	(MHz)	Channel		Size	Oliset	(dBm)
	1852.5	18625		1	0	22.67
				1	24	22.67
			<u>-</u>	12	6	21.55
				25	0	21.47
				1	0	22.70
16QAM	1880	18900	5	1	24	22.70
IOQAW	1000	10900	5	12	6	21.64
				25	0	21.50
		19175		1	0	22.72
	1907.5			1	24	22.72
				12	6	21.69
				25	0	21.63
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC	Oliset	(dBm)
				1	0	22.42
	1852.5	18625		1	24	22.42
	1002.0	10023		12	6	21.53
				25	0	21.45
				1	0	22.44
64QAM	1880	18900	5	1	24	22.44
UTQAIVI	1000	10900]	12	6	21.56
				25	0	21.49
				1	0	22.49
	1907.5	19175		1	24	22.49
	1 3 01.5			12	6	21.60
				25	0	21.56



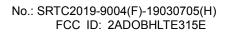


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
		18650		1	0	23.48
	1055			1	49	23.48
	1855			24	12	22.70
				50	0	22.59
			1	1	0	23.46
QPSK	1880	18900	10	1	49	23.46
QPSK	1000	10900	10	24	12	22.72
				50	0	22.63
			1	1	0	23.47
	100E	10150		1	49	23.47
	1905	19150		24	12	22.78
				50	0	22.70
	Corrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB Offset	power
	(MHz)	Channel		Size	Oliset	(dBm)
	1855	18650		1	0	22.73
				1	49	22.73
				24	12	21.61
				50	0	21.53
				1	0	22.76
10001	1880	40000	40	1	49	22.76
16QAM	1000	18900	10	24	12	21.70
				50	0	21.56
			1	1	0	22.78
	1905	19150		1	49	22.78
				24	12	21.75
				50	0	21.69
	Camian francisco	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB Offset	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.48
	10EE	10650		1	49	22.48
	1855	18650		24	12	21.59
				50	0	21.51
			1	1	0	22.50
640004	1000	10000	10	1	49	22.50
64QAM	1880	18900	10	24	12	21.62
				50	0	21.55
			1	1	0	22.55
	4005	40450		1	49	22.55
	1905	19150		24	12	21.66
				50	0	21.62





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	1857.5	18675		1	0	23.52
				1	74	23.52
				40	18	22.74
				75	0	22.63
] [1	0	23.50
QPSK	1880	18900	15	1	74	23.50
QFSK	1000	10900	13	40	18	22.76
				75	0	22.67
				1	0	23.51
	1002 5	10125		1	74	23.51
	1902.5	19125		40	18	22.82
				75	0	22.74
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(IVIIIZ)	Channel		Size	Oliset	(dBm)
	1857.5	18675		1	0	22.77
				1	74	22.77
				40	18	21.65
				75	0	21.57
			1	1	0	22.80
160014	1880	10000	1.5	1	74	22.80
16QAM	1000	18900	15	40	18	21.74
				75	0	21.60
	1902.5	19125		1	0	22.81
				1	74	22.81
				40	18	21.79
				75	0	21.73
	Carriar fraguancy	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Sizo	RB Offset	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.52
	10E7 E	18675		1	74	22.52
	1857.5	10075		40	18	21.63
				75	0	21.55
			1	1	0	22.54
640014	1000	19000	1.5	1	74	22.54
64QAM	1880	18900	15	40	18	21.66
				75	0	21.59
] [1	0	22.59
	1000 5	10105		1	74	22.59
	1902.5	19125		40	18	21.70
				75	0	21.66





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.54
	1860	18700		1	99	23.54
	1000	10700		50	25	22.76
				100	0	22.65
				1	0	23.52
QPSK	1880	18900	20	1	99	23.52
QFSK	1000	10900	20	50	25	22.78
				100	0	22.69
			1	1	0	23.53
	4000	10100		1	99	23.53
	1900	19100		50	25	22.84
				100	0	22.76
	Camian francisco	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Ci=c	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
	1860	18700		1	0	22.79
				1	99	22.79
				50	25	21.67
				100	0	21.59
				1	0	22.82
400 414	400	40000		1	99	22.82
16QAM	1880	18900	20	50	25	21.76
				100	0	21.62
		19100	1	1	0	22.84
	1900			1	99	22.84
				50	25	21.81
				100	0	21.75
	0 : (55	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.54
	4000	40700		1	99	22.54
	1860	18700		50	25	21.65
				100	0	21.57
				1	0	22.56
04041	4000	40000		1	99	22.56
64QAM	1880	18900	20	50	25	21.68
				100	0	21.61
				1	0	22.61
	40.55	19100		.	99	22.61
	1900			50	25	21.72
				100	0	21.68



Modulation	Carrier frequency	UL	BW	RB	RB	Conducted
Modulation	(MHz)	Channel	BVV	Size	Offset	power (dBm)
				1	0	23.21
	4740.7	10057		1	5	23.21
	1710.7	19957		3	2	22.39
				6	0	22.30
				1	0	23.18
ODCK	4700 F	20475		1	5	23.18
QPSK	1732.5	20175	1.4	3	2	22.36
				6	0	22.25
			1	1	0	23.16
	4754.0	00000		1	5	23.16
	1754.3	20393		3	2	22.31
			-	6	0	22.22
	Causiau fuanciau	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.52
	4740.7	40057		1	5	22.52
	1710.7	19957		3	2	21.45
				6	0	21.37
			1	1	0	22.50
400 484	4700 F	00475		1	5	22.50
16QAM	1732.5	20175	1.4	3	2	21.42
				6	0	21.33
	1754.3	20393		1	0	22.47
				1	5	22.47
				3	2	21.40
				6	0	21.29
	Carriar fraguancy	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Sizo	RB Offset	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.23
	1710.7	19957		1	5	22.23
	1710.7	19957		3	2	21.39
				6	0	21.35
[]	1	0	22.22
64QAM	1732.5	20175	1.4	1	5	22.22
U4QAIVI	1732.3	20173	1.4	3	2	21.37
				6	0	21.32
[-			1	0	22.20
	1754 2	20393		1	5	22.20
	1754.3			3	2	21.36
				6	0	21.29





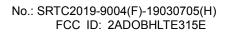
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
				1	0	23.19	
	1711.5	19965		1	14	23.19	
	6.1171	19903		8	4	22.37	
				15	0	22.28	
				1	0	23.16	
QPSK	1732.5	20175	3	1	14	23.16	
QFSK	1732.3	20173		8	4	22.34	
				15	0	22.23	
				1	0	23.14	
	1753.5	20385		1	14	23.14	
	1755.5	20365		8	4	22.29	
				15	0	22.20	
	Carrier frequency	UL		RB	RB	Conducted	
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power	
	(IVII IZ)	Charmer		Size	Oliset	(dBm)	
	1711.5	19965		1	0	22.50	
				1	14	22.50	
				8	4	21.42	
				15	0	21.34	
				1	0	22.45	
16QAM	1732.5	20175	3	1	14	22.45	
IOQAW	1732.3	20173		8	4	21.37	
				15	0	21.28	
		20385			1	0	22.42
	1753.5			1	14	22.42	
				8	4	21.35	
				15	0	21.24	
	Carrier frequency	UL		RB	RB	Conducted	
Modulation	(MHz)	Channel	BW	Size	Offset	power	
	(1711 12)	Onamici		OIZC		(dBm)	
				1	0	22.18	
	1711.5	19965		1	14	22.18	
	1711.5	19909		8	4	21.33	
			<u> </u>	15	0	21.29	
				1	0	22.16	
64QAM	1732.5	20175	3	1	14	22.16	
	1102.0	20173		8	4	21.31	
			<u> </u>	15	0	21.26	
		20385		1	0	22.14	
	1753 5			1	14	22.14	
	1753.5			8	4	21.30	
				15	0	21.23	





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.17
	1710 E	10075		1	24	23.17
	1712.5	19975		12	6	22.35
				25	0	22.26
			1	1	0	23.14
ODCK	1722 5	20175	5	1	24	23.14
QPSK	1732.5	20175	5	12	6	22.32
				25	0	22.21
] [1	0	23.12
	17E0 E	20275		1	24	23.12
	1752.5	20375		12	6	22.29
				25	0	22.20
	Carrier frequency	UL		DD	DD	Conducted
Modulation	Carrier frequency	Channel	BW	RB Size	RB Offset	power
	(MHz)	Channel		Size	Oliset	(dBm)
	1712.5	19975		1	0	22.50
				1	24	22.50
				12	6	21.42
				25	0	21.34
] [1	0	22.46
16QAM	1732.5	20175	5	1	24	22.46
IOQAW	1732.3	20175	3	12	6	21.38
				25	0	21.29
	1752.5	20375		1	0	22.43
				1	24	22.43
				12	6	21.36
				25	0	21.25
	Corrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Sizo	RB Offset	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.19
	1710 E	10075		1	24	22.19
	1712.5	19975		12	6	21.34
				25	0	21.30
]	1	0	22.17
64000	4 7 20 F	20475	_	1	24	22.15
64QAM	1732.5	20175	5	12	6	21.30
				25	0	21.25
		20375]	1	0	22.13
	47F0 F		•	1	24	22.13
	1752.5			12	6	21.29
				25	0	21.22

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.21
	1715	20000		1	49	23.21
	1715	20000		24	12	22.39
				50	0	22.29
] [1	0	23.17
QPSK	1732.5	20175	10	1	49	23.17
QFSK	1732.5	20175	10	24	12	22.35
				50	0	22.24
				1	0	23.15
	1750	20250		1	49	23.15
	1750	20350		24	12	22.30
				50	0	22.21
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1011 12)	Charmer		Size	Oliset	(dBm)
	1715	20000		1	0	22.51
				1	49	22.51
				24	12	21.43
				50	0	21.34
] [1	0	22.47
160414	1732.5	20175	10	1	49	22.47
16QAM	1732.5	20175	10	24	12	21.39
				50	0	21.30
	1750	20350] [1	0	22.44
				1	49	22.44
				24	12	21.37
				50	0	21.26
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL Channel	BW	RB Size	RB Offset	power
	(MHz)	Charmer		Size	Oliset	(dBm)
				1	0	22.20
	1715	20000		1	49	22.20
	1713	20000		24	12	21.35
				50	0	21.31
] [1	0	22.16
64QAM	1732.5	20175	10	1	49	22.16
U4QAIVI	1732.3	20173	10	24	12	21.31
				50	0	21.26
		20350		1	0	22.14
	1750			1	49	22.14
	1750			24	12	21.30
				50	0	21.23





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.25
	1717.5	20025		1	74	23.25
	1717.3	20025		40	18	22.43
				75	0	22.34
				1	0	23.22
QPSK	1732.5	20175	15	1	74	23.22
QFSK	1732.3	20175	15	40	18	22.40
				75	0	22.29
				1	0	23.20
	4747 5	20225	-	1	74	23.20
	1747.5	20325	-	40	18	22.35
			•	75	0	22.26
	Comion fuo accomo	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
	1717.5	20025		1	0	22.52
			•	1	74	22.52
				40	18	21.44
				75	0	21.36
				1	0	22.49
400 4 14	4700 F	00475	1,5	1	74	22.49
16QAM	1732.5	20175	15	40	18	21.41
			•	75	0	21.32
	1747.5	20325		1	0	22.46
				1	74	22.46
				40	18	21.39
			•	75	0	21.28
	0 . (DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.22
	4747.5	00005		1	74	22.22
	1717.5	20025	•	40	18	21.37
			-	75	0	21.32
				1	0	22.19
040454	4700 5	00477	,_	1	74	22.19
64QAM	1732.5	20175	15	40	18	21.34
				75	0	21.29
				1	0	22.17
	4 - 4	20325		.	74	22.17
	1747.5			40	18	21.33
				75	0	21.26



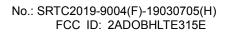


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
		20050		1	0	23.28
	1720			1	99	23.28
	1720			50	25	22.46
				100	0	22.37
] [1	0	23.25
QPSK	1732.5	20175	20	1	99	23.25
QFSK	1732.5	20175	20	50	25	22.43
				100	0	22.32
				1	0	23.23
	1745	20300		1	99	23.23
	1740	20300		50	25	22.38
				100	0	22.29
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(IVII IZ)	Channel		Size	Oliset	(dBm)
	1720	20050		1	0	22.59
				1	99	22.59
			_	50	25	21.51
				100	0	21.43
				1	0	22.56
16QAM	1732.5	20175	20	1	99	22.56
IOQAW	1702.0	20175	20	50	25	21.48
				100	0	21.39
	1745	20300		1	0	22.53
				1	99	22.53
				50	25	21.46
				100	0	21.35
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC	Oliset	(dBm)
				11	0	22.29
	1720	20050		11	99	22.29
	1720	20000		50	25	21.44
				100	0	21.40
				1	0	22.27
64QAM	1732.5	20175	20	1	99	22.27
O-T-Q/ (IVI	1102.0	20170	20	50	25	21.42
				100	0	21.37
				11	0	22.25
	1745	20300		1	99	22.25
	1/45			50	25	21.41
				100	0	21.34

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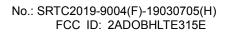


	Carrier frequency	UL	DW	RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power (dBm)
				1	0	23.29
	004.7	20407		1	5	23.29
	824.7			3	2	22.36
				6	0	22.22
				1	0	23.26
ODOK	000 5	00505		1	5	23.26
QPSK	836.5	20525	1.4	3	2	22.32
				6	0	22.14
				1	0	23.21
	0.40.0	00040		1	5	23.21
	848.3	20643		3	2	22.27
			-	6	0	22.15
	0				55	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.64
	004.7	00407	•	1	5	22.64
	824.7	20407		3	2	21.30
				6	0	21.15
			1	1	0	22.56
				1	5	22.56
16QAM	836.5	20525	1.4	3	2	21.23
				6	0	21.11
	848.3	20643	1	1	0	22.55
				1	5	22.55
				3	2	21.24
				6	0	21.10
	0			DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.57
	004.7	20407		1	5	22.64
	824.7	20407		3	2	21.24
				6	0	21.20
			1	1	0	22.61
640014	006 E	20525	4 4	1	5	22.61
64QAM	836.5	20525	1.4	3	2	21.19
				6	0	21.17
]	1	0	22.60
	0.40.0	20643	-	1	5	22.60
	848.3			3	2	21.17
				6	0	21.15



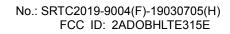


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.21
	825.5	20415		1	14	23.21
	625.5	20415		8	4	22.28
				15	0	22.14
				1	0	23.18
QPSK	836.5	20525	3	1	14	23.18
QFOR	030.3	20323		8	4	22.24
				15	0	22.12
				1	0	23.19
	847.5	20635		1	14	23.19
	047.5	20033		8	4	22.25
				15	0	22.13
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(IVII IZ)	Channel		Size	Oliset	(dBm)
	825.5	20415		1	0	22.62
				1	14	22.62
				8	4	21.28
				15	0	21.17
				1	0	22.58
16QAM	836.5	20525	3	1	14	22.58
IOQAW	000.0	20323		8	4	21.28
				15	0	21.16
	847.5	20635		1	0	22.60
				1	14	22.60
				8	4	21.29
				15	0	21.15
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Onamici		OIZC		(dBm)
				1	0	22.62
	825.5	20415		1	14	22.57
	020.0	20413		8	4	21.17
			<u> </u>	15	0	21.13
				1	0	22.54
64QAM	836.5	20525	3	1	14	22.54
UTQAW	000.0	20020	5	8	4	21.12
] [15	0	21.10
				1	0	22.53
	Q <i>1</i> 7 5	20635	•	1	14	22.53
	847.5			8	4	21.10
				15	0	21.08





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	826.5			1	0	23.24
		20425		1	24	23.24
		20423		12	6	22.31
				25	0	22.17
] [1	0	23.21
QPSK	836.5	20525	5	1	24	23.21
QFSK	030.5	20020	5	12	6	22.27
				25	0	22.13
				1	0	23.19
	846.5	20625		1	24	23.19
	040.0	20025		12	6	22.25
				25	0	22.13
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Channel		Size	Oliset	(dBm)
	826.5	20425		1	0	22.62
				1	24	22.62
				12	6	21.28
				25	0	21.19
			1	1	0	22.60
160414	836.5	20525	5	1	24	22.60
16QAM	630.3	20525) 3	12	6	21.27
			_	25	0	21.15
	846.5	20625		1	0	22.59
				1	24	22.59
				12	6	21.28
				25	0	21.14
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL Channel	BW	RB Size	RB Offset	power
	(MHz)	Charine		Size	Oliset	(dBm)
				1	0	22.61
	826.5	20425		1	24	22.60
	020.5	20425		12	6	21.20
				25	0	21.16
			1	1	0	22.57
64001	026 5	20525	_	1	24	22.57
64QAM	836.5	20525	5	12	6	21.15
				25	0	21.13
] [1	0	22.56
	040 5	20625		1	24	22.56
	846.5			12	6	21.13
				25	0	21.11



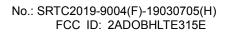


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
		20450		1	0	23.32
	920			1	49	23.32
	829			24	12	22.39
				50	0	22.25
			1	1	0	23.29
QPSK	836.5	20525	10	1	49	23.29
QFSK	030.3	20525	10	24	12	22.35
				50	0	22.21
			1	1	0	23.28
	0.4.4	20600		1	49	23.28
	844	20600		24	12	22.34
				50	0	22.22
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency (MHz)	UL	BW	RB Size	RB Offset	power
	(1011 12)	Channel		Size	Oliset	(dBm)
	829	20450		1	0	22.71
				1	49	22.71
				24	12	21.37
				50	0	21.26
			1	1	0	22.67
160414	836.5	20525	10	1	49	22.67
16QAM	630.3	20323	10	24	12	21.34
				50	0	21.22
	844	20600		1	0	22.66
				1	49	22.66
				24	12	21.35
				50	0	21.21
	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Charine		Size	Oliset	(dBm)
				1	0	22.68
	829	20450		1	49	22.68
	029	20430		24	12	21.28
				50	0	21.24
				1	0	22.65
64001	926 5	20525	10	1	49	22.65
64QAM	836.5	20020	10	24	12	21.23
				50	0	21.21
]	1	0	22.64
	0.4.4	20600		1	49	22.64
	844			24	12	21.21
				50	0	21.19

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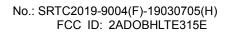


	Carrier frequency	UL		RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power (dBm)
				1	0	23.43
		00775		1	24	23.43
	2502.5	20775		12	6	22.64
				25	0	22.60
			1	1	0	23.37
ODCK	2525	24400	5	1	24	23.37
QPSK	2535	21100	5	12	6	22.56
				25	0	22.53
			1	1	0	23.22
	0507.5	04405		1	24	23.22
	2567.5	21425		12	6	22.51
				25	0	22.43
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL Channel	BW	RB Size	RB Offset	power
	(MHz)	Charmer		Size	Oliset	(dBm)
	2502.5			1	0	22.77
		20775		1	24	22.75
	2302.3	20113		12	6	21.59
				25	0	21.57
			1	1	0	22.65
160014	2525	21100	_ [1	24	22.65
16QAM	2535	21100	5	12	6	21.49
				25	0	21.47
	2567.5	21425	1	1	0	22.57
				1	24	22.57
				12	6	21.42
				25	0	21.34
	Carrier frequency	UL		DD	RB	Conducted
Modulation	(MHz)	Channel	BW	RB Size	Offset	power
	(1711 12)	Chamilei		0126	Oliset	(dBm)
				1	0	22.69
	2502.5	20775		1	24	22.67
	2502.5	20113		12	6	21.48
				25	0	21.39
				1	0	22.59
64QAM	2535	21100	5	1	24	22.59
	2000	21100		12	6	21.43
] [25	0	21.40
				1	0	22.50
	2567 5	21425		1	24	22.52
	2567.5			12	6	21.39
				25	0	21.31



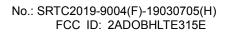


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
		20800		1	0	23.41
	2505			1	49	23.41
	2505	20000		24	12	22.62
				50	0	22.58
				1	0	23.35
QPSK	2535	21100	10	1	49	23.35
QFSK	2000	21100	10	24	12	22.55
				50	0	22.52
] [1	0	23.21
	0505	24.400	-	1	49	23.21
	2565	21400	-	24	12	22.50
			-	50	0	22.42
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB Offset	power
	(MHz)	Channel		Size	Oliset	(dBm)
	2505	20800		1	0	22.76
				1	49	22.76
			-	24	12	21.58
				50	0	21.56
				1	0	22.64
160014	2535	24400	10	1	49	22.64
16QAM	2555	21100	10	24	12	21.48
			-	50	0	21.46
	2565	21400		1	0	22.56
				1	49	22.56
				24	12	21.41
			-	50	0	21.33
	0	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB	RB Offset	power
	(MHz)	Channel		Size	Offset	(dBm)
				1	0	22.68
	0505	20000		1	49	22.68
	2505	20800		24	12	21.50
			•	50	0	21.41
				1	0	22.61
040454	0505	04400	40	1	49	22.61
64QAM	2535	21100	10	24	12	21.45
				50	0	21.42
		21400		1	0	22.52
	0505			<u>·</u> 1	49	22.52
	2565			24	12	21.39
				50	0	21.31





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.45
	2507 F	20025	Ī	1	74	23.45
	2507.5	20825	Ī	40	18	22.66
			Ī	75	0	22.62
				1	0	23.39
QPSK	2535	21100	15	1	74	23.39
QPSK	2000	21100	15	40	18	22.58
			Ī	75	0	22.51
				1	0	23.20
	0E60 E	04075	Ī	1	74	23.20
	2562.5	21375		40	18	22.49
			Ī	75	0	22.41
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB Offset	power
	(MHz)	Channel		Size	Oliset	(dBm)
	2507.5	20825		1	0	22.75
			Ī	1	74	22.75
				40	18	21.59
			Ī	75	0	21.53
				1	0	22.61
160414	2535	21100	15	1	74	22.61
16QAM	2555	21100	15	40	18	21.45
				75	0	21.43
	2562.5	21375		1	0	22.53
				1	74	22.53
				40	18	21.38
			Ī	75	0	21.30
	Carrier frequency	1.01		DD	RB	Conducted
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	Offset	power
	(1711 12)	Charmer		Size	Oliset	(dBm)
				1	0	22.65
	2507.5	20025		1	74	22.72
	2507.5	20825		40	18	21.53
				75	0	21.44
				1	0	22.64
64QAM	2535	21100	15	1	74	22.64
04QAIVI	2000	21100	15	40	18	21.48
				75	0	21.45
		21375		1	0	22.55
	2562 5			1	74	22.55
	2562.5			40	18	21.42
				75	0	21.34





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
	0540			1	0	23.48
		20050		1	99	23.48
	2510	20850		50	25	22.69
				100	0	22.65
			1	1	0	23.42
ODCK	2525	21100	20	1	99	23.42
QPSK	2535	21100	20	50	25	22.61
				100	0	22.58
			1	1	0	23.27
	2560	24250		1	99	23.27
	2560	21350		50	25	22.56
				100	0	22.48
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Channel		Size	Oliset	(dBm)
	2510	20850		1	0	22.82
				1	99	22.82
				50	25	21.66
				100	0	21.64
				1	0	22.72
16QAM	2535	21100	20	1	99	22.72
IOQAW	2333	21100	20	50	25	21.56
				100	0	21.54
	2560	21350		1	0	22.64
				1	99	22.64
				50	25	21.49
				100	0	21.41
	Carrier frequency	UL		RB	RB	Conducted
Modulation	Carrier frequency (MHz)	Channel	BW	Size	Offset	power
	(1711 12)	Charine		SIZE	Oliset	(dBm)
				1	0	22.76
	2510	20850		1	99	22.76
	2310	20030		50	25	21.57
				100	0	21.48
				1	0	22.68
64QAM	2535	21100	20	1	99	22.68
U4QAIVI	2000	21100	20	50	25	21.52
			_	100	0	21.49
	-			1	0	22.59
	2560	21350		1	99	22.59
	2000			50	25	21.46
				100	0	21.38



	Carrier frequency	UL	DW	RB	RB	Conducted
Modulation	(MHz)	Channel	BW	Size	Offset	power (dBm)
				1	0	23.25
	COO 7	23017		1	5	23.25
	699.7			3	2	22.36
				6	0	22.23
				1	0	23.22
QPSK	707.5	22005	1.4	1	5	23.22
QF3N	707.5	23095	1.4	3	2	22.34
				6	0	22.17
			1	1	0	23.17
	745.0	00470		1	5	23.17
	715.3	23173		3	2	22.31
				6	0	22.16
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL	BW	RB Size	RB Offset	power
	(MHz)	Channel		Size	Oliset	(dBm)
				1	0	22.32
	699.7	23017		1	5	22.32
	099.7	23017		3	2	21.31
				6	0	21.23
				1	0	22.27
400 4 4	707.5	00005		1	5	22.27
16QAM	707.5	23095	1.4	3	2	21.24
				6	0	21.16
	715.3	23173		1	0	22.26
				1	5	22.26
				3	2	21.23
				6	0	21.14
	Carrier frequency	1.11		DD	DD	Conducted
Modulation	Carrier frequency	UL Channel	BW	RB Sizo	RB	power
	(MHz)	Charmer		Size	Offset	(dBm)
				1	0	22.17
	699.7	23017		1	5	22.17
	099.1	23017		3	2	21.25
				6	0	21.19
] [1	0	22.19
64QAM	707.5	23095	1.4	1	5	22.19
U4QAIVI	0.101	23093	1.4	3	2	21.27
				6	0	21.16
	715.3		-	1	0	22.18
		23173		1	5	22.18
				3	2	21.26
				6	0	21.15





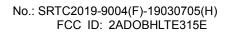
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)				
				1	0	23.24				
	700 <i>E</i>	22025		1	14	(dBm) 23.24 23.24 23.24 22.35 22.22 23.21 23.21 22.33 22.16 23.16 23.16 23.16 22.30 22.15 Conducted power (dBm) 22.30 22.30 22.129 21.21 22.29 21.21 22.29 21.26 21.18 22.28 22.28 21.22 21.13 Conducted				
	700.5	23025		8	4					
				15	0	22.22				
				1	0	23.21				
QPSK	707 <i>E</i>	22005		1	14	23.21				
QPSK	707.5	23095	3	8	4	22.33				
				15	0	22.16				
			1	1	0	23.16				
	744 5	22465		1	14	23.16				
	714.5	23165		8	4	22.30				
				15	0	22.15				
	Carrier frequency	UL		DD	DD	Conducted				
Modulation	Carrier frequency	Channel	BW	RB Size	RB Offset	power				
	(MHz)	Charmer		Size	Oliset	(dBm)				
				1	0	22.30				
	700.5	23025		1	14	22.30				
	700.5	23025		8	4	(dBm) 23.24 23.24 22.35 22.22 23.21 23.21 23.21 22.33 22.16 23.16 23.16 23.16 23.15 Conducted power (dBm) 22.30 21.29 21.21 22.29 21.21 22.29 21.26 21.18 22.28 21.22 21.13 Conducted power (dBm) 22.16 22.16 21.18 22.28 21.22 21.13 Conducted power (dBm) 22.16 21.18 22.28 21.22 21.13 Conducted power (dBm) 22.16 22.15 22.15 22.15 22.15 22.15				
				15	0	21.21				
] [1	0	14 22.30 4 21.29 0 21.21 0 22.29 14 22.29 4 21.26 0 21.18 0 22.28				
16QAM	707.5	23095	3	1	14					
IOQAW	707.5	23095	3	8	4	21.26				
				15	0	21.18				
			1	1	0	22.28				
	714.5	22165		1						
	7 14.5	23165		8	14 22.28 4 21.22					
				15	0	21.13				
	Carrier frequency	1.11		DD	DD	Conducted				
Modulation	Carrier frequency	UL Channel	BW	RB Size	RB Offset	power				
	(MHz)	Charmer		Size	Oliset	(dBm)				
				1	0	22.16				
	700.5	23025		1	14	22.16				
	700.5	23025		8	4	21.24				
				15	0	21.15				
			1	1	0	22.15				
64001	707 F	22005	,	1	14	22.15				
64QAM	707.5	23095	3	8	4	21.23				
				15	0					
]	1	0	22.14				
	744 5	22405		1	14	22.14				
	714.5	23165		8	4	21.22				
				15	0	21.11				

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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)				
				1	0	23.22				
	701.5	23035		1	24	23.22				
	701.5	23033		12	6	(dBm) 23.22 23.22 23.22 23.22 22.33 22.20 23.19 23.19 22.31 22.16 23.16 23.16 23.16 23.16 22.30 22.15 Conducted power (dBm) 22.31 22.29 21.28 21.20 22.28 21.25 21.17 22.27 22.27 21.24 21.15 Conducted power (dBm) 22.15 Conducted power (dBm) 22.18 21.25 21.17 22.27 21.24 21.15 Conducted power (dBm) 22.18 22.15 21.15 Conducted power (dBm) 22.18 22.15 21.15 22.15 22.15 22.15				
				25	0					
				1	0					
QPSK	707.5	23095	5	1	24					
QI OIX	101.5	23033		12	6					
				25	0	22.16				
				1	0					
	713.5	23155		1	24	23.16				
	7 10.5	23133		12	6					
				25	0	22.15				
	Carrier frequency	UL		RB	RB	Conducted				
Modulation	(MHz)	Channel	BW	Size	Offset	•				
	(1711 12)	Onamici		OIZC		· /				
				1						
	701.5	23035		1						
	701.5	23033		12		21.28				
				25	0	21.20				
				1	0	0 22.28 24 22.28				
16QAM	707.5	23095	5	1		23.16 22.30 22.15 Conducted power (dBm) 22.31 22.29 21.28 21.20 22.28 22.28 21.25 21.17 22.27 22.27 21.24 21.15 Conducted power (dBm)				
IOQAW	101.5	23093		12						
				25		21.17				
				1		22.27				
	713.5	23155		1	24	24 22.29 6 21.28 0 21.20 0 22.28 24 22.28 6 21.25 0 21.17 0 22.27 24 22.27 6 21.24 0 21.15 Conducted power (dBm)				
	7 10.5	23133		12	6	21.24				
				25	0	21.15				
	Carrier frequency	UL		RB	DR	Conducted				
Modulation	(MHz)	Channel	BW	Size		-				
	(1711 12)	Onamici		OIZC		, ,				
				11	0					
	701.5	23035		1	24					
	701.5	23033		12	6					
			<u> </u>	25	0					
				1	0					
64QAM	707.5	23095	5	1	24	23.22 4 23.22 5 22.33 0 22.20 0 23.19 4 23.19 5 22.31 0 22.16 0 23.16 0 23.16 0 23.16 0 23.16 0 23.16 0 22.30 0 22.15 Conducted power (dBm) 0 22.31 4 22.29 5 21.28 0 21.20 0 22.28 4 22.28 0 21.25 0 21.17 0 22.27 4 22.27 4 22.27 6 21.24 0 21.15 Conducted power (dBm) 0 22.18 0 21.15 Conducted power (dBm) 0 22.18 0 21.15 Conducted power (dBm) 0 22.18 0 21.15 0 22.15 0 21.15 0 22.15 0 21.15 0 22.15 0 21.15 0 22.15 0 21.15 0 22.15 0 21.15 0 22.15 0 21.12 0 22.14 0 22.16				
	101.5	20090		12	6					
				25	0					
				1	0	22.14				
	713.5	23155		1	24					
	110.0	20100		12	6	21.24				
				25	0	21.13				



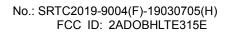


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)				
				1	0	(dBm) 0 23.27 49 23.27 12 22.38 0 22.25 0 23.24 49 23.24 12 22.36 0 22.21 0 23.21 49 23.21 12 22.35 0 22.20 Conducted				
	704	23060		1	49	(dBm) 23.27 23.27 23.27 22.38 22.25 23.24 23.24 22.36 22.21 23.21 23.21 23.21 22.35 22.20 Conducted power (dBm) 22.36 22.36 21.35 21.27 22.35 22.35 21.32 21.24 22.34 22.34 21.31 21.22 Conducted power (dBm) 22.25 22.35 22.35 21.32 21.24 22.34 22.34 21.31 21.22 Conducted power (dBm) 22.25 22.25 22.25 22.25 22.25 22.25 22.24 22.24 22.24 22.24 22.24 22.24				
	704	23000		24	12	(dBm) 23.27 23.27 23.27 22.38 22.25 23.24 23.24 22.36 22.21 23.21 23.21 23.21 22.35 22.20 Conducted power (dBm) 22.36 22.36 21.35 21.27 22.35 22.35 22.35 21.32 21.24 22.34 22.34 21.31 21.22 Conducted power (dBm) 22.25 22.35 22.35 21.32 21.24 22.34 22.24 22.25				
				50	0	22.25				
] [1	0	23.24				
QPSK	707.5	23095	10	1	49	23.24				
QFSK	707.5	23095	10	24	12	22.36				
				50	0	22.21				
] [1	0	23.21				
	744	22420		1	49	23.21				
	711	23130		24	12	22.35				
				50	0	22.20				
	Carrier frequency	UL		RB	RB	Conducted				
Modulation	(MHz)	Channel	BW	Size	Offset	•				
	(111112)	Orianino				, ,				
				1						
	704	23060		1		22.36				
	701	20000		24		23.27 23.27 23.27 22.38 22.25 23.24 23.24 22.36 22.21 23.21 23.21 22.35 22.35 22.36 22.36 22.36 22.36 22.36 22.36 22.36 21.35 21.27 22.35 22.35 21.32 21.24 22.34 22.34 22.34 22.34 22.34 22.34 22.35 22.25 22.25 22.25 22.25 22.25 22.24 22.24 22.24 22.24 22.24 22.24 22.24				
				50		21.27				
				1	_	22.36 22.36 21.35 21.27 22.35 22.35 22.35 21.32 21.24 22.34				
16QAM	707.5	23095	10	1		23.24 23.24 22.36 22.21 23.21 23.21 22.35 22.20 Conducted power (dBm) 22.36 22.36 21.35 21.27 22.35 22.35 21.32 21.24 22.34 21.31 21.22 Conducted power (dBm) 22.25 22.25 21.33 21.24 22.24 22.24				
100/1111	101.0	20000	'0	24		12 21.32 0 21.24				
]	50		21.24				
				1		22.34				
	711	23130		1		22.34				
	7 11	23130		24	4 12 21.31					
				50	0	21.22				
	Carrier frequency	UL		RB	RR	Conducted				
Modulation	(MHz)	Channel	BW	Size		-				
	(1711 12)	Onamici		OIZC		(dBm)				
				11		22.25				
	704	23060		1		22.25				
	704	20000		24		21.33				
				50						
				1		22.24				
64QAM	707.5	23095	10	1	49	19				
O-TQ/ (IVI	101.0	20000	10	24	12	21.32				
				50	0	21.21				
				1	0	22.23				
	711	23130		1	49	22.23				
	111	20100		24	12	21.31				
				50	0	21.20				

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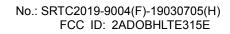


Modulation	Carrier frequency	UL Channel	BW	RB Size	RB Offset	Conducted power
	(MHz)					(dBm)
	, ,			1	0	23.19
	1710 7	121070		1	5	23.19
	1710.7	131979		3	2	22.46
				6	0	22.35
				1	0	23.15
QPSK	1745	132322	1.4	1	5	23.15
QFSK	1745	132322	1.4	3	2	22.40
				6	0	22.30
				1	0	23.32
	1779.3	132665		1	5	23.32
	1779.3	132003		3	2	22.53
				6	0	22.44
	Carrier					Conducted
Modulation	frequency	UL Channel	BW	RB Size	RB Offset	power
	(MHz)					(dBm)
				1	0	22.50
	1710.7	131979		1	5	22.50
	17 10.7	131919		3	2	21.42
				6	0	21.29
				1	0	22.44
16QAM	1745	132322	1.4	1	5	22.43
IOQAW	1745	132322	1.4	3	2	21.33
				6	0	21.22
				1	0	22.54
	1779.3	132665		1	5	22.45
	1779.5	132003		3	2	21.46
				6	0	21.40
	Carrier					Conducted
Modulation	frequency	UL Channel	BW	RB Size	RB Offset	power
	(MHz)					(dBm)
				1	0	22.39
	1710.7	131979		1	5	22.39
	17 10.7	131373		3	2	21.31
				6	0	21.23
				1	0	22.39
64QAM	1745	132322	1.4	1	5	22.39
	1743	102022	1.4	3	2	21.27
				6	0	21.16
				1	0	22.53
	1779.3	132665		1	5	22.53
	1118.3	132003		3	2	21.42
				6	0	21.34



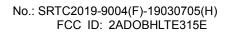


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)				
				1	0	23.16				
	1711.5	131987		1	14	23.16				
	17 11.5	131901		8	4					
				15	0					
				1	0					
QPSK	1745	132322	3	1	14	23.12				
QFOR	1743	132322		8	4	22.37				
				15	0	22.29				
				1	0	23.31				
	1778.5	132657		1	14	23.31				
	1770.5	132037		8	4	22.52				
				15	0	22.43				
	Carrier frequency	UL		RB	DD	Conducted				
Modulation	Carrier frequency (MHz)	Channel	BW	Size		power				
	(1711 12)	Charine		Size	Oliset	(dBm)				
				1	0	22.49				
	1711.5	131987		1	14	22.49				
	17 11.5	131901		8	4	23.16 23.16 23.16 22.43 22.32 23.12 23.12 23.12 22.37 22.29 23.31 23.31 22.52 22.43 Conducted power (dBm) 22.49 22.49 21.41 21.28 22.46 22.45 21.35 21.24 22.56 22.47 21.48 21.42 Conducted power (dBm) 22.49 22.41 21.33 21.21 22.37 22.37 21.25 21.14				
				15	0	21.28				
				1	0	0 22.46 14 22.45				
16QAM	1745	132322	3	1	14	(dBm) 23.16 23.16 23.16 22.43 22.32 23.12 23.12 23.12 22.37 22.29 23.31 23.31 22.52 22.43 Conducted power (dBm) 22.49 21.41 21.28 22.46 22.45 21.35 21.24 22.56 22.47 21.48 21.42 Conducted power (dBm) 22.41 22.37 22.37 22.37 21.25				
IOQAW	1745	132322	3	8	4	4 21.35 0 21.24				
				15	0	21.24				
				1	0	14 22.45 4 21.35 0 21.24 0 22.56 14 22.47				
	1778.5	132657		1	14	22.47				
	1770.3	132037		8	4	21.48				
			-	15	0	21.42				
	Corrier frequency	1.11		DD	DD	Conducted				
Modulation	Carrier frequency	UL	BW	RB Size		power				
	(MHz)	Channel		Size	Oliset	(dBm)				
				1	0					
	1711 5	121007		1	14	22.41				
	1711.5	131987		8	4	21.33				
				15	0	21.21				
				1	0	22.37				
640484	1745	122222	9	1	14	14 23.31 4 22.52 0 22.43 RB Offset				
64QAM	1745	132322	3	8	4	21.25				
				15	0	21.14				
				1	0	22.51				
	4770 E	120657		1	14	22.51				
	1778.5	132657		8	4	21.40				
				15	0	21.32				





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)				
				1	0	23.13				
	1712.5	131997		1	24	t (dBm) 23.13 23.13 22.40 22.29 23.09 23.09 23.09 22.34 22.26 23.28 23.28 22.49 22.40 Conducted power (dBm) 22.46 22.46 22.45 22.44 21.34 21.23 22.55 22.46 21.50 21.44 Conducted power (dBm) 22.46 22.45 22.45 22.45 22.44 21.34 21.23 22.55 22.46 21.50 21.44 Conducted power (dBm) 22.43 22.43 21.23 22.55 22.46 21.50 21.44 Conducted power (dBm) 22.43 22.43 21.35 21.24 22.40 22.40 22.40 22.54				
	1712.5	131997		12	6	22.40				
				25	0	22.29				
				1	0	23.09				
QPSK	1745	132322	5	1	24	23.09				
QFSK	1745	132322	5	12	6	22.34				
				25	0	22.26				
				1	0	23.28				
	4777 E	122647	-	1	24	23.28				
	1777.5	132647	-	12	6	22.49				
			-	25	0	22.40				
	Carrier frequency	1.11		DD	DD	Conducted				
Modulation	Carrier frequency	UL Channel	BW	RB Size	RB Offset	power				
	(MHz)	Charmer		Size	Oliset	(dBm)				
				1	0	22.46				
	1712.5	131997		1	24	22.46				
	1712.5	131997		12	6	21.39				
				25	0	21.26				
				1	0	0 22.46 24 22.46 6 21.39 0 21.26 0 22.45 24 22.44 6 21.34 0 21.23 0 22.55				
160 4 14	1745	12222	_	1	24	power (dBm) 22.46 21.39 21.26 22.45 22.44 21.34 21.23 22.55 22.46 21.50				
16QAM	1745	132322	5	12	6	21.34				
			-	25	0	21.23				
				1	0	22.55				
	4777 F	400047	-	1	24	22.46				
	1777.5	132647	-	12	1 24 22.44 12 6 21.34 25 0 21.23 1 0 22.55 1 24 22.46 12 6 21.50 25 0 21.44 RB RB Conducted power					
			-	25	0	21.44				
	Camian francisco	1.11		DD	DD	Conducted				
Modulation	Carrier frequency	UL	BW			power				
	(MHz)	Channel		Size	Oliset	(dBm)				
				1	0	22.43				
	1710 E	121007		1	24	22.43				
	1712.5	131997	-	12	6	21.35				
				25	0	21.24				
]	1	0	22.40				
640084	4745	42222	_	1	24	22.40				
64QAM	1745	132322	5	12	6					
				25	0					
]	1	0	22.54				
	4777 F	100047		1	24					
	1777.5	132647	•	12	6	21.43				
				25	0	21.35				



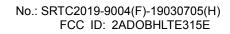


Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)				
				1	0	23.12				
	171E	422022		1	49	Conducted Page 22.45 Page 22.45 Page 22.45 Page 22.46 Page 22.46 Page 22.47 Page 22.46 Page 22.47 Page 22.48 Page 22.47 Page 22.48 Page 22.47 Page 22.46 Page 22.47 Page 22.46 Page 22.47 Page 22.48 Page 22.47 Page 22.48 Page 22.49 Page				
	1715	132022		24	12	23.12 29 23.12 20 23.12 20 22.39 20 22.28 20 23.08 29 23.08 29 23.27 20 23.27 29 23.27 29 23.27 20 22.48 20 22.39 Conducted power (dBm) 20 22.45 20 21.37 20 21.28 20 22.47 29 22.46 20 21.36 20 21.25 20 22.57 29 22.48 20 21.49 20 21.43 Conducted power (dBm) 22.45 22 21.36 23 21.25 24 22.48 25 22.48 26 22.48 27 22.48 28 22.48 29 22.48 20 21.49 20 21.43 20 21.23 20 22.42 20 22.42 21.33 20 21.22				
				50	0	22.28				
				1	0	offset (dBm) 0 23.12 49 23.12 12 22.39 0 22.28 0 23.08 49 23.08 12 22.33 0 22.25 0 23.27 49 23.27 12 22.48 0 22.39 Conducted power (dBm) 0 22.45 49 22.45 12 21.37 0 21.28 0 22.47 49 22.46 12 21.36 0 21.25 0 22.57 49 22.48 12 21.49 0 21.43 Conducted power (dBm) 0 22.47 49 22.46 12 21.36 0 22.57 49 22.48 12 21.36 0 22.57 49 22.48 12 21.49 0 21.43 Conducted power (dBm) 0 22.42 49 22.48 12 21.49 0 21.43 Conducted power (dBm) 0 22.42 49 22.48 12 21.33 0 21.22 0 22.38 49 22.38 12 21.26 0 21.15				
QPSK	1745	132322	10	1	49	23.08				
QFSK	1745	132322	10	24	12	22.33				
				50	0	22.25				
				1	0	23.27				
	1775	132622		1	49	23.27				
	1775	132022		24	12	22.48				
				50	0	22.39				
	Carrier frequency	UL		RB	DD	Conducted				
Modulation	Carrier frequency (MHz)	Channel	BW	Size		power				
	(1711 12)	Charine		SIZE	Oliset	(dBm)				
				1	0	22.45				
	1715	132022		1						
	17 13	132022		24	12	21.37				
				50	0	21.28				
				1	0	49 22.45 12 21.37 0 21.28 0 22.47 49 22.46 12 21.36 0 21.25				
16QAM	1745	132322	10	1	49	22.46				
IOQAW	1743	132322	10	24	12					
				50	0	21.25				
				1	0	0 22.57				
	1775	132622		1	49	22.48				
	1773	132022		24	21.49					
				50	0	21.43				
	Carrier frequency	UL		RB	DR	Conducted				
Modulation	(MHz)	Channel	BW	Size		-				
	(1711 12)	Onamici		OIZC	Oliset					
				11						
	1715	132022		1						
	17 10	102022		24						
			_	50						
				1	_					
64QAM	1745	132322	10	1						
O-T-Q/ (IVI	1770	102022	'	24						
			<u> </u>	50						
				11	0	22.52				
	1775	132622		1	49	22.52				
	1775	102022		24	12	21.41				
				50	0	21.33				





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)				
				1	0	23.10				
	1717.5	132047		1	74	power (dBm) 23.10 23.10 23.10 23.10 23.25 22.26 23.06 23.06 23.06 22.31 22.23 23.25 23.25 23.25 22.46 22.37 Conducted power (dBm) 22.43 21.28 22.43 21.28 22.47 22.46 21.33 21.22 22.54 22.45 21.40 Conducted power (dBm) 22.39 22.39 22.39 22.39 22.39 22.39 22.36 22.36 22.49				
	17 17.5	132047		40	18					
				75	0	22.26				
				1	0	23.06				
QPSK	1745	132322	15	1	74	23.06				
QFSN	1743	132322	15	40	18	22.31				
				75	0	22.23				
				1	0	23.25				
	4770 F	400507	•	1	74	23.25				
	1772.5	132597	•	40	18	22.46				
			•	75	0	22.37				
	Comion fuo accomo	1.11		DD	DD	Conducted				
Modulation	Carrier frequency	UL	BW	RB Ci=c	RB	power				
	(MHz)	Channel		Size	Offset	(dBm)				
				1	0	22.43				
	4747 5	400047	•	1	74	22.43				
	1717.5	132047	-	40	18	21.35				
			-	75	0	21.28				
				1	0	0 21.28 0 22.47 74 22.46 18 21.33				
400 4 14	4745	400000	1,5	1	74	22.43 22.43 21.35 21.28 22.47 22.46 21.33 21.22 22.54 22.45				
16QAM	1745	132322	15	18	22.46 21.33 21.22					
			•	75	0	21.22				
				1	0	0 22.54				
	4770 5	400507	-	1	74	22.45				
	1772.5	132597	•	40	18 21.35 0 21.28 0 22.47 74 22.46 18 21.33 0 21.22 0 22.54 74 22.45 18 21.46 0 21.40 Conducted power (dBm) 0 22.39 74 22.39					
			•	75	0					
	0 . (DD	55					
Modulation	Carrier frequency	UL	BW	RB						
	(MHz)	Channel		Size	Offiset	•				
				1	0					
	4747.5	400047		1						
	1717.5	132047		40	18					
			-	75	0					
				1	0					
040454	4745	400000	,_	1	74					
64QAM	1745	132322	15	40	18					
				75	0					
				1	0					
	 -			.	74					
	1772.5	132597		40	18	21.38				
				75	0	21.30				





Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)					
				1	0	23.21					
	1700	122072		1	99	power (dBm) 23.21 23.21 22.48 22.37 23.17 23.17 23.17 22.42 22.34 23.36 23.36 22.57 22.48 Conducted power (dBm) 22.54 22.54 22.54 21.46 21.33 22.52 22.51 21.41 21.30 22.62 22.53 21.54 21.48 Conducted power (dBm) 22.47 21.48 Conducted power (dBm) 22.47 21.39 21.28 22.47 21.39 21.28 22.44 22.44 21.32 21.21 22.58 22.58					
	1720	132072		50	25	23.21 23.21 22.48 22.37 23.17 23.17 23.17 22.42 22.34 23.36 23.36 22.57 22.48 Conducted power (dBm) 22.54 22.54 22.54 21.46 21.33 22.52 22.51 21.41 21.30 22.62 22.53 21.54 21.48 Conducted power (dBm) 22.47 22.47 22.47 22.47 22.47 21.39 21.28					
				100	0	22.37					
			1	1	0	23.17					
ODOK	4745	400000		1	99	23.17					
QPSK	1745	132322	20	50	25	22.42					
				100	0	22.34					
			1	1	0	23.36					
	4770	400570		1	99						
	1770	132572		50	25						
				100	0	22.48					
	0			DD	DD	Conducted					
Modulation	Carrier frequency	UL	BW	RB		power					
	(MHz)	Channel		Size	Offset	•					
				1	0	, ,					
	4700	400070		1	99	22.54					
	1720	132072		50	25	0 22.48 RB power (dBm) 0 0 22.54 99 22.54 25 21.46 0 22.52 99 22.51 25 21.41 0 21.30 0 22.62 99 22.53					
				100	0	21.33					
			1	1	0	0 21.33 0 22.52 99 22.51					
400 444	4745	400000		1	99	23.17 23.17 22.42 22.34 23.36 23.36 23.36 22.57 22.48 Conducted power (dBm) 22.54 22.54 21.46 21.33 22.52 22.51 21.41 21.30 22.62 22.53 21.54 21.48 Conducted power (dBm) 22.47 22.47 21.39 21.28 22.44 22.44					
16QAM	1745	132322	20	50	25	25 22.57 0 22.48 Conducted power (dBm) 0 22.54 29 22.54 25 21.46 0 21.33 0 22.52 29 22.51 25 21.41 0 21.30 0 22.62 29 22.53 25 21.54 0 21.48 Conducted power (dBm)					
				100	0	21.30					
			1	1	0	22.62					
	4770	400570		1	99	22.53					
	1770	132572		50	25	99 22.54 25 21.46 0 21.33 0 22.52 99 22.51 25 21.41 0 21.30 0 22.62 99 22.53 25 21.54 0 21.48 RB Offset Conducted power (dBm) 0 22.47 99 22.47					
				100	0	21.48					
	0	1.11		DD	DD	Conducted					
Modulation	Carrier frequency	UL	BW	RB		power					
	(MHz)	Channel		Size	Offset	•					
				1	0						
	4700	400070		1	99						
	1720	132072		50	25	21.39					
				100	0	21.28					
			1	1	0						
640004	4745	42222	20	1	99	22.44					
64QAM	1745	132322	20	50	25						
				100	0						
]	1	0	22.58					
	4770	100570		1	99						
	1770	132572		50	25	21.47					
				100	0	21.39					



6.5 Carrier Aggregation Power Measurement result

When carrier aggregation is limited to downlink only, uplink maximum output power (single carrier) is measured for the supported combinations of downlink carrier aggregation listed in the table below. In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs (far right most configuration highlighted in the table below).

DL Inter-Band (2 Bands, 2CC) Down Antenna

	Ba	nds			D	L			UL									
CA	PCC	SCC		PCC			SCC							PCC				
Configuration	1st	2nd	BW	Freq.	СН	BW	Freq.	СН	Modulation	RB	Offset	BW	Freq.	СН	Aggregated BW	CA Inactive	CA Active	Delta
CA 4A-5A	4A	5A	20	2132.5	2175	10	881.5	2525	QPSK	1	49	20	1732.5	20175	40	23.28	23.17	-0.11
CA_4A-5A	5A	4A	10	881.5	2525	20	2132.5	2175	QPSK	1	24	10	836.5	20525	30	23.32	23.28	-0.04
CA 4A-7A	4A	7A	20	2132.5	2175	20	2655	3100	QPSK	1	49	20	1732.5	20175	40	23.28	23.21	-0.07
CA_4A-/A	7A	4A	20	2655	3100	20	2132.5	2175	OPSK	1	49	20	2535	21100	40	23.48	23.45	-0.03

DL Inter-Band (2 Bands, 2CC) Upper Antenna

	~					· ·								* **				
	Ba	nds			D)L			UL									
CA	PCC	SCC		PCC			SCC							PCC				
Configuration	1st	2nd	BW	Freq.	СН	BW	Freq.	СН	Modulation	RB	Offset	BW	Freq.	СН	Aggregated BW	CA Inactive	CA Active	Delta
CA_4A-5A	4A	5A	20	2132.5	2175	10	881.5	2525	QPSK	1	49	20	1732.5	20175	40	19.28	19.25	-0.03
CA_4A-3A	5A	4A	10	881.5	2525	20	2132.5	2175	QPSK	1	24	10	836.5	20525	30	23.32	23.27	-0.05
CA 4A-7A	4A	7A	20	2132.5	2175	20	2655	3100	QPSK	1	49	20	1732.5	20175	40	19.28	19.26	-0.02
CA_4A-/A	7A	4A	20	2655	3100	20	2132.5	2175	QPSK	1	49	20	2535	21100	40	15.48	15.52	0.03

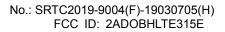
Summary for SAR Test Exclusion for LTE Downlink CA

Per power confirmation results in above, the uplink maximum output power with downlink CA active remains within the specified tune-up tolerance and not more than 0.25dB higher than the maximum output power with downlink CA inactive. According to KDB 941225 D05A, the SAR test exclusion applies to LTE downlink CA operation.

6.6 Bluetooth Measurement result

		Test Result (dBm)	
Modulation type	2402MHz (Ch0)	2441MHz (Ch39)	2480MHz (Ch78)
GFSK	8.12	8.55	8.63
π/4DQPSK	6.33	6.71	6.86
8DPSK	6.29	6.65	6.81
GFSK(BLE)	2402MHz (Ch0)	2440MHz (Ch19)	2480MHz (Ch39)
GF3K(BLE)	4.29	5.43	4.86

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6.7 Wi-Fi Measurement result

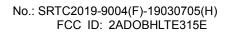
WIFI 2.4GHz

Modulation type	Average power output (dBm)			
	2412MHz	2437MHz	2462MHz	
11b	14.23	14.42	14.01	
11g	13.82	13.89	13.68	
11n HT20	12.67	12.87	13.34	

WIFI 5GHz

WIFI 5GHZ							
Band	Test Mode	Frequency (MHz)	Average Power (dBm)	Limit(dBm)			
	802.11a	5180 [°]	11.34	24.0			
	802.11a	5200	11.41	24.0			
	802.11a	5240	11.42	24.0			
	802.11n HT20	5180	11.25	24.0			
	802.11n HT20	5200	11.21	24.0			
	802.11n HT20	5240	11.26	24.0			
	802.11n HT40	5190	10.53	24.0			
U-NII-1	802.11n HT40	5230	10.55	24.0			
<u> </u>	802.11ac VHT20	5180	11.21	24.0			
	802.11ac VHT20	5200	11.13	24.0			
	802.11ac VHT20	5240	11.22	24.0			
	802.11ac VHT40	5190	10.18	24.0			
	802.11ac VHT40	5230	10.38	24.0			
	802.11ac VHT80	5210	9.38	24.0			
U-NII-2A	802.11a	5260	11.67	24.0			
	802.11a	5300	11.69	24.0			
	802.11a	5320	11.73	24.0			
	802.11n HT20	5260	11.55	24.0			
	802.11n HT20	5300	11.59	24.0			
	802.11n HT20	5320	11.67	24.0			
	802.11n HT40	5270	11.89	24.0			
	802.11n HT40	5310	11.92	24.0			
	802.11ac VHT20	5260	11.12	24.0			
	802.11ac VHT20	5300	11.17	24.0			
	802.11ac VHT20	5320	11.15	24.0			
	802.11ac VHT40	5270	10.32	24.0			
	802.11ac VHT40	5310	10.25	24.0			
	802.11ac VHT80	5290	9.94	24.0			

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Band	Test Mode	Frequency (MHz)	Average Power (dBm)	Limit(dBm)
	802.11a	5500	11.43	24.0
	802.11a	5580	11.38	24.0
	802.11a	5700	11.42	24.0
	802.11n HT20	5500	11.33	24.0
	802.11n HT20	5580	11.37	24.0
	802.11n HT20	5700	11.34	24.0
	802.11n HT40	5510	10.88	24.0
	802.11n HT40	5670	10.84	24.0
U-NII-2C	802.11ac VHT20	5500	10.82	24.0
	802.11ac VHT20	5580	11.11	24.0
	802.11ac VHT20	5720	11.10	24.0
	802.11ac VHT40	5510	10.67	24.0
	802.11ac VHT40	5590	10.63	24.0
	802.11ac VHT40	5710	10.63	24.0
	802.11ac VHT80	5530	10.09	24.0
	802.11ac VHT80	5610	10.12	24.0
	802.11ac VHT80	5690	10.14	24.0
	802.11a	5745	11.43	30.0
	802.11a	5785	11.38	30.0
	802.11a	5825	11.42	30.0
U-NII-3	802.11n HT20	5745	11.27	30.0
	802.11n HT20	5785	11.30	30.0
	802.11n HT20	5825	11.31	30.0
	802.11n HT40	5755	10.68	30.0
	802.11n HT40	5795	10.63	30.0
	802.11ac VHT20	5720	10.67	30.0
	802.11ac VHT20	5745	11.13	30.0
	802.11ac VHT20	5785	11.17	30.0
	802.11ac VHT20	5825	11.14	30.0
	802.11ac VHT40	5710	10.33	30.0
	802.11ac VHT40	5755	10.31	30.0
	802.11ac VHT40	5795	10.28	30.0
	802.11ac VHT80	5690	9.87	30.0
	802.11ac VHT80	5775	9.91	30.0



6.8 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Mothod1:

According to the KDB447498 4.3.1 (1)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f} (GHz)] \le 3.0$ for 1-g SAR, where

- ·f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- •The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

This is equivalent to [(max. power of channel, including tune-up tolerance, mW)/(60/ \sqrt{f} (GHz) mW)] ·[20 mm/(min.test separation distance, mm)] ≤ 1.0 for 1-g SAR; also see Appendix A for approximate exclusion threshold values at selected frequencies and distances.

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Mothod2:

According to the KDB447498 appendix A

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test

Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

According to KDB 248227 D01 802 11 Wi-Fi SAR chapter 5.3.1 b)

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following, with respect to the highest *reported* SAR and maximum output power specified for production units. The procedures are applied independently to each exposure configuration; for example, head, body, hotspot mode etc. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest *reported* SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is $\leq 1.2 \text{ W/kg}$, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

Power tolerance for WIFI-5GHz (U-NII 1)= 11.5dbm

Power tolerance for WIFI-5GHz (U-NII 2A)= 12.0dbm

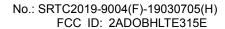
Ratio of specified maximum output power = 12.0-11.5=-0.5db=0.89

Highest Reported SAR for WIFI-5GHz (U-NII 2A)=0.343

Adjusted SAR=0.306w/kg<1.2w/kg

So in this test report, WIFI 5GHz U-NII-1 do not need to perform SAR test, because we already consider the worst case WIFI 5GHz U-NII 2A.

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Summary of Transmitters

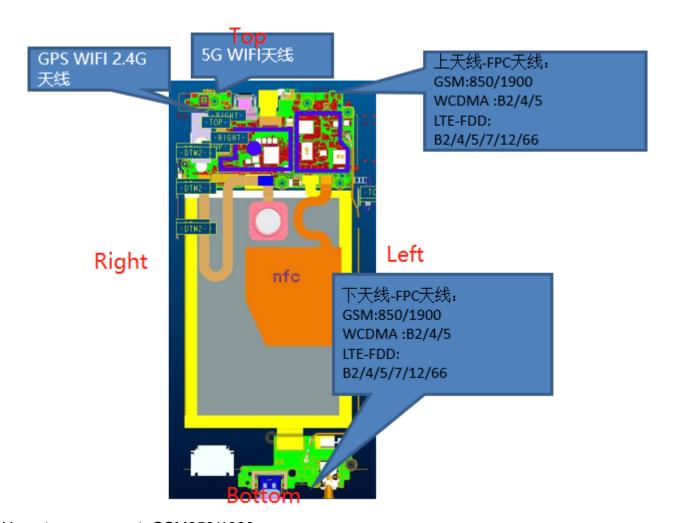
Band/Mode	Position	SAR test exclusion threshold (mW)	Max conducted power adjusted for tune-up tolerance(mW)	Standalone SAR Required
2.4GHz BT/BLE	Head	10	7.94	Yes
2.40H2 B1/BEE	Body	19	7.94	No*
2.4GHz Wi-Fi	Head	10	28.18	Yes
2.46112 111-11	Body	19	28.18	Yes
5GHz U-NII2A WI-FI	Head	6	15.85	Yes
(5300MHz)	Body	13	15.85	Yes
5GHz U-NII2C WI-FI	Head	6	14.13	Yes
(5580MHz)	Body	13	14.13	Yes
5GHz U-NII3 WI-FI	Head	6	14.13	Yes
(5785MHz)	Body	12	14.13	Yes

Note1)*: We notice that some conditions do not need to test body-worn & hotspot position, we consider that if we just test SAR value in head position but estimate SAR value in body position, the results are not reasonable and reliable, so we test all the mode describe above.



6.9 RF exposure conditions

Refer to the follow picture "Antenna Locations & Separation Distances" for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.



Up antenna support: GSM850/1900

WCDMA II/IV/V

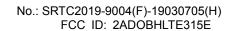
LTE 2/4/5/7/12/66

Down antenna support: GSM850/1900

WCDMA II/IV/V

LTE 2/4/5/7/12/66

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6.9.1 Head Exposure Conditions

Up Antenna

For WWAN

Test Configurations	SAR Required	Note
Left Touch	yes	1
Left Tilt (15°)	yes	1
Right Touch	yes	1
Right Tilt (15°)	yes	1

For WLAN&BT/BLE

Test Configurations	SAR Required	Note
Left Touch	yes	/
Left Tilt (15°)	yes	/
Right Touch	yes	/
Right Tilt (15°)	yes	/

Down Antenna

For WWAN

Test Configurations	SAR Required	Note
Left Touch	yes	1
Left Tilt (15°)	yes	1
Right Touch	yes	1
Right Tilt (15°)	yes	/

6.9.2 Body Exposure conditions

Up Antenna

For WWAN

Test Configurations	SAR Required	Note
Back	yes	1
Front	yes	1

For WLAN&BT/BLE

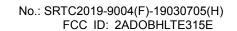
Test Configurations	SAR Required	Note
Back	yes	1
Front	yes	1

Down Antenna

For WWAN

Test Configurations	SAR Required	Note
Back	yes	1
Front	yes	1

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6.9.3 Hotspot Exposure conditions

Up Antenna

For WWAN

Test Configurations	Antenna-to-edge/surface	SAR Required
Back	<25 mm	Yes
Front	<25 mm	Yes
Тор	<25 mm	Yes
Bottom	>25 mm	No
Right	<25 mm	Yes
Left	<25 mm	Yes

For WLAN&BT/BLE

Test Configurations	Antenna-to-edge/surface	SAR Required
Back	<25 mm	Yes
Front	<25 mm	Yes
Тор	<25 mm	Yes
Bottom	>25 mm	No
Left	>25 mm	No
Right	<25 mm	Yes

Down Antenna

For WWAN

Test Configurations	Antenna-to-edge/surface	SAR Required		
Back	<25 mm	Yes		
Front	<25 mm	Yes		
Тор	>25 mm	No		
Bottom	<25 mm	Yes		
Left	<25 mm	Yes		
Right	<25 mm	Yes		

Note: For hotspot mode, it's not necessary test Rear and Front position cause we already test the these position without hotspot mode in Body Exposure conditions, Normally if the hotspot mode opened, the technology "power reduction" used for mobile, so we consider the worst condition, and remain the data of body worn as hotspots mode.

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6.10 System Checking

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna **except D5GHzV2 used 10mW**, which was placed under the flat section of the twin SAM phantom. The system checking results (dielectric parameters

and SAR values) are given in the table below.

Date Tested	System dipole	T.S. Liquid	m	SAR easured alized to 1W)	Target (Ref. Value)	Delta (%)	Tolerance (%)
2019.04.01	D750V3	Head	1g	8.44	8.26	2.2	±10
2019.04.02	D750V3	Head	1g	8.72	8.26	5.6	±10
2019.04.03	D835V2	Head	1g	9.44	9.37	0.7	±10
2019.04.04	D835V2	Head	1g	9.4	9.37	0.3	±10
2019.04.08	D835V2	Head	1g	9.16	9.37	-2.2	±10
2019.04.09	D1800V2	Head	1g	38.28	38.9	-1.6	±10
2019.04.10	D1800V2	Head	1g	37.84	38.9	-2.7	±10
2019.04.11	D2000V2	Head	1g	38.6	40.3	-4.2	±10
2019.04.12	D2000V2	Head	1g	41.2	40.3	2.2	±10
2019.04.13	D2450V2	Head	1g	54.4	52.4	3.8	±10
2019.04.14	D2450V2	Head	1g	54.8	52.4	4.6	±10
2019.04.15	D2450V2	Head	1g	51.2	52.4	-2.3	±10
2019.04.16	D5GHzV2	Head	1g	78.7	81.3	-3.2	±10
2019.04.16	D5GHzV2	Head	1g	82.4	81.6	1.0	±10
2019.04.16	D5GHzV2	Head	1g	77.5	78.7	-1.5	±10

Date Tested	System dipole	T.S. Liquid		SAR easured alized to 1W)	Target (Ref. Value)	Delta (%)	Tolerance (%)
2019.04.01	D750V3	Body	1g	8.24	8.69	-5.2	±10
2019.04.02	D750V3	Body	1g	8.72	8.69	0.3	±10
2019.04.03	D835V2	Body	1g	9.48	9.47	0.1	±10
2019.04.04	D835V2	Body	1g	9.36	9.47	-1.2	±10
2019.04.08	D835V2	Body	1g	9.12	9.47	-3.7	±10
2019.04.09	D1800V2	Body	1g	38.2	39.7	-3.8	±10
2019.04.10	D1800V2	Body	1g	38.68	39.7	-2.6	±10
2019.04.11	D2000V2	Body	1g	37.96	40.3	-5.8	±10
2019.04.12	D2000V2	Body	1g	38.84	40.3	-3.6	±10
2019.04.13	D2450V2	Body	1g	52.8	52.3	1.0	±10
2019.04.14	D2450V2	Body	1g	52.0	52.3	-0.6	±10
2019.04.15	D2450V2	Body	1g	53.2	52.3	1.7	±10
2019.04.16	D5GHzV2	Body	1g	73.0	76.9	-5.1	±10
2019.04.16	D5GHzV2	Body	1g	81.0	80.7	0.4	±10
2019.04.16	D5GHzV2	Body	1g	75.0	77.5	-3.2	±10

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Plots of the system checking scans are given in Appendix A. Tissue Simulants used in the Measurements

For the measurement of the following parameters the SPEAG DAKS-3.5 dielectric parameter

probe is used, representing the open-ended coaxial probe measurement procedure.

Date Tested	Freq. (MHz)	Liquid parameters	measured	Target	Delta (%)	Tolerance (%)
		er	42.068	41.90	0.4	±5
2019.04.01	Head 750	σ[S/m]	0.917	0.89	3.0	±5
		er	42.153	41.90	0.6	±5
2019.04.02	Head 750	σ[S/m]	0.922	0.89	3.6	±5
		er	42.529	41.50	2.5	±5
2019.04.03	Head 835	σ[S/m]	0.912	0.90	1.3	±5
		er	40.217	41.50	-3.1	±5
2019.04.04	Head 835	σ[S/m]	0.908	0.90	0.9	±5
		er	41.114	41.50	-0.9	±5
2019.04.08	Head 835	σ[S/m]	0.915	0.90	1.7	±5
		er	38.905	40.00	-2.7	±5
2019.04.09	Head 1800	σ[S/m]	1.409	1.40	0.6	±5
		er er	40.607	40.00	1.5	±5
2019.04.10	Head 1800	σ[S/m]	1.411	1.40	0.8	±5
		εr	39.815	40.00	-0.5	±5
2019.04.11	Head 2000	σ[S/m]	1.435	1.40	2.5	±5
		εr	40.245	40.00	0.6	±5
2019.04.12	Head 2000	σ[S/m]	1.384	1.40	-1.1	±5
		εr	38.145	39.20	-2.7	±5
2019.04.13	Head 2450	σ[S/m]	1.873	1.80	4.1	±5
0040 04 44		٤r	39.517	39.20	0.8	±5
2019.04.14	Head 2450	σ[S/m]	1.881	1.80	4.5	±5
0040 04 45	1110450	٤r	39.583	39.20	1.0	±5
2019.04.15	Head 2450	σ[S/m]	1.833	1.80	1.8	±5
0040 04 40	1115000	٤r	36.853	35.9	2.7	±5
2019.04.16	Head 5300	σ[S/m]	4.683	4.76	-1.6	±5
2010 04 10	Lload FCCC	εr	36.847	35.5	3.8	±5
2019.04.16	Head 5600	σ[S/m]	4.992	5.07	-1.5	±5
2010 04 16	Hood E000	٤r	36.334	35.3	2.9	±5
2019.04.16	Head 5800	σ[S/m]	5.185	5.27	-1.6	±5



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Date Tested	Freq. (MHz)	Liquid parameters	measured	Target	Delta (%)	Tolerance (%)
2019.04.01	Body 750	٤r	53.279	55.50	-4.0	±5
2019.04.01	Бойу 750	σ[S/m]	0.976	0.96	1.7	±5
2019.04.02	Body 750	٤r	54.321	55.50	-2.1	±5
2019.04.02	Бойу 750	σ[S/m]	0.954	0.96	-0.6	±5
2019.04.03	Body 835	٤r	54.541	55.20	-1.2	±5
2019.04.03	Dody 033	σ[S/m]	0.975	0.97	0.5	±5
2019.04.04	Body 835	٤r	55.036	55.20	-0.3	±5
2019.04.04	Bouy 635	σ[S/m]	0.971	0.97	0.1	±5
2019.04.08	Body 835	εr	56.196	55.20	1.8	±5
2019.04.00	Bouy 635	σ[S/m]	0.966	0.97	-0.4	±5
2019.04.09	Body 1800	εr	52.879	53.30	-0.8	±5
2019.04.09	Body 1800	σ[S/m]	1.523	1.52	0.2	±5
2019.04.10	Body 1800	εr	51.717	53.30	-3.0	±5
2019.04.10	Body 1800	σ[S/m]	1.542	1.52	1.4	±5
2019.04.11	Body 2000	εr	52.557	53.30	-1.4	±5
2019.04.11	B00y 2000	σ[S/m]	1.546	1.52	1.7	±5
2019.04.12	Body 2000	٤r	52.596	53.30	-1.3	±5
2019.04.12	Body 2000	σ[S/m]	1.586	1.52	4.3	±5
2019.04.13	Body 2450	٤r	50.795	52.70	-3.6	±5
2019.04.13	Dody 2430	σ[S/m]	1.926	1.95	-1.2	±5
2019.04.14	Body 2450	εr	51.927	52.70	-1.5	±5
2019.04.14	Body 2450	σ[S/m]	2.004	1.95	2.8	±5
2019.04.15	Body 2450	εr	51.046	52.70	-3.1	±5
2019.04.15	Body 2450	σ[S/m]	2.027	1.95	3.9	±5
2019.04.16	Body 5300	εr	49.035	48.9	0.3	±5
2013.04.10	Dody 5500	σ[S/m]	5.355	5.42	-1.2	±5
2019.04.16	Body 5600	εr	49.216	48.5	1.5	±5
2013.04.10	Dody 5000	σ[S/m]	5.627	5.77	-2.5	±5
2019.04.16	Pody 5900	εr	47.36	48.2	-1.7	±5
2019.04.10	Body 5800	σ[S/m]	6.11	6.00	1.8	±5

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6.11 SAR TEST RESULT

In order to determine the largest value of the peak spatial-average SAR of a handset, all device positions, configurations, and operational modes should be tested for each frequency band according to Steps 1 to 3 below.

Step 1: The tests should be performed at the channel that is closest to the center of the transmit frequency band.

- a) All device positions (cheek and tilt, for both left and right sides of the SAM phantom),
- b) All configurations for each device position in a), e.g., antenna extended and retracted, and
- c) All operational modes for each device position in item a) and configuration in item b) in each frequency band, e.g., analog and digital, If more than three frequencies need to be tested (i.e., Nc > 3), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing the highest peak spatial-average SAR determined in Step 1 for each frequency, perform all tests at all other test frequency channels, e.g., lowest and highest frequencies. In addition, for all other conditions (device position, configuration, and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies should be tested as well.

Step 3: Examine all data to determine the largest value of the peak. Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Reported SAR (W/kg) = Measured SAR (W/kg) * Scaling Factor

- 2. Per KDB 447498 D01v06, for each exposure position, if the highest output channel reported SAR ≤0.8W/kg, other channels SAR testing are not necessary.
- 3. The distance between the EUT and the phantom bottom is 10mm.

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The measured and reported Head/body SAR values for the test device are tabulated below:

Up Antenna

Mode: GSM 850(GPRS)

fL(MHz)=824.2MHz fM(MHz)=836.5MHz fH(MHz)=848.8MHz

SAR Values (850MHz Band)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test (Case	Ch	Measure Conducted	Tune-up limit	Scaling	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		Power (dBm)	(dBm)	Factor	1g Average	1g Average
Left		L	27.18	27.50	1.08		
cheek		М	27.12	27.50	1.09	0.659	0.718
CHEEK		Н	27.08	27.50	1.10		
Left		L	27.18	27.50	1.08		
Tilted	GPRS	М	27.12	27.50	1.09	0.636	0.693
Tilled	4TX	Н	27.08	27.50	1.10	-	
Diaht	(head)	L	27.18	27.50	1.08		
Right cheek	(Head)	М	27.12	27.50	1.09	0.715	0.779
CHEEK		Н	27.08	27.50	1.10		
Dight		L	27.18	27.50	1.08		
Right Tilted		М	27.12	27.50	1.09	0.709	0.773
Tilled		Н	27.08	27.50	1.10		
		L	27.18	27.50	1.08		
Back	GPRS	M	27.12	27.50	1.09	0.514	0.560
	4TX	Н	27.08	27.50	1.10		
	(body-	L	27.18	27.50	1.08		
Front	worn)	М	27.12	27.50	1.09	0.132	0.144
		Н	27.08	27.50	1.10		
		L	27.18	27.50	1.08		
Тор		М	27.12	27.50	1.09	0.077	0.084
		Н	27.08	27.50	1.10		
	GPRS	L	27.18	27.50	1.08		
Left	4TX	М	27.12	27.50	1.09	0.122	0.133
	(hotspot)	Н	27.08	27.50	1.10		
		L	27.18	27.50	1.08		
Right		М	27.12	27.50	1.09	0.172	0.187
		Н	27.08	27.50	1.10		

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Mode: GSM1900(GPRS)

fL (MHz)=1850.2MHz fM (MHz)=1880.0MHz fH (MHz)=1909.8MHz

SAR Values (1900MHz Band)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test (Test Case		Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 actor	1g Average	1g Average
Left		L	19.37	19.50	1.03		
cheek		М	19.42	19.50	1.02	0.456	0.465
Clieek		Н	19.43	19.50	1.02		
Left		L	19.37	19.50	1.03	-	
Tilted	GPRS	М	19.42	19.50	1.02	0.581	0.593
Tilled	4TX	Н	19.43	19.50	1.02		
Right	(head)	L	19.37	19.50	1.03		
cheek	(ricau)	М	19.42	19.50	1.02	0.564	0.575
CHECK		Н	19.43	19.50	1.02		
Right		L	19.37	19.50	1.03		
Tilted	M		19.42	19.50	1.02	0.752	0.767
Titted		Н	19.43	19.50	1.02		
		L	19.37	19.50	1.03		
Back	GPRS	M	19.42	19.50	1.02	0.776	0.792
	4TX	Н	19.43	19.50	1.02		
	(body-	L	19.37	19.50	1.03		
Front	worn)	М	19.42	19.50	1.02	0.094	0.096
		Н	19.43	19.50	1.02	-	
		L	19.37	19.50	1.03	-	
Тор		М	19.42	19.50	1.02	0.194	0.198
		Н	19.43	19.50	1.02		
	GPRS	L	19.37	19.50	1.03		
Left	4TX	М	19.42	19.50	1.02	0.188	0.192
	(hotspot)	Н	19.43	19.50	1.02		
		L	19.37	19.50	1.03		
Right		М	19.42	19.50	1.02	0.119	0.121
		Н	19.43	19.50	1.02		

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Mode: WCDMA BAND2

SAR Values (WCDMA BAND2)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test	Case	Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 dotoi	1g Average	1g Average
Left		L	16.70	17.00	1.07		
cheek		М	16.77	17.00	1.05	0.542	0.569
CHECK		Н	16.79	17.00	1.05		
Left		L	16.70	17.00	1.07		
Tilted		М	16.77	17.00	1.05	0.651	0.684
Tilleu		Η	16.79	17.00	1.05		
Right	12.2KRMC	L	16.70	17.00	1.07		
cheek	(head)	М	16.77	17.00	1.05	0.674	0.708
CHECK	(Head)	Η	16.79	17.00	1.05		
		L	16.70	17.00	1.07	0.909	0.973
		М	16.77	17.00	1.05	0.940	0.987
Right		Η	16.79	17.00	1.05	0.934	0.981
Tilted		L2	16.70	17.00	1.07	0.912	0.977
		M2	16.77	17.00	1.05	0.943	0.994
		H2	16.79	17.00	1.05	0.928	0.974
		L	16.70	17.00	1.07		
Back	12.2KRMC	М	16.77	17.00	1.05	0.697	0.732
	_	Н	16.79	17.00	1.05		
	(body- worn)	L	16.70	17.00	1.07		
Front	woiii)	М	16.77	17.00	1.05	0.115	0.121
		Н	16.79	17.00	1.05		
		L	16.70	17.00	1.07		
Тор		М	16.77	17.00	1.05	0.240	0.252
		Н	16.79	17.00	1.05		
	40.01/5146	L	16.70	17.00	1.07		
Left	12.2KRMC	М	16.77	17.00	1.05	0.151	0.159
	(hotspot)	Н	16.79	17.00	1.05		
		L	16.70	17.00	1.07		
Right		М	16.77	17.00	1.05	0.104	0.109
J		Н	16.79	17.00	1.05		



Mode: WCDMA BAND4

fL (MHz)= 1712.4MHz fM (MHz)= 1732.4MHz fH (MHz)= 1752.6MHz SAR Values (WCDMA BAND4) Limit of SAR (W/kg): <1.6W/kg (1g Average)

SAR Value	S (WODINA B	AND	4) Limit of SA	r (vv/kg): <	i.evv/kg (
			Measure			Measure	Reported
Test	Case		Conducted	Tune-up	Scaling	Results	Results
		Ch	Power	limit	Factor	(W/kg)	(W/kg)
position	mode		(dBm)	(dBm)	. actor	1g Average	1g
poolaon	meas		, ,			,	Average
		L	19.39	19.50	1.03	0.902	0.929
_		М	19.42	19.50	1.02	0.927	0.946
Left		Н	19.47	19.50	1.01	0.967	0.977
cheek		L2	19.39	19.50	1.03	0.903	0.926
		M2	19.42	19.50	1.02	0.916	0.933
		H2	19.47	19.50	1.01	0.954	0.961
		L	19.39	19.50	1.03	0.797	0.821
		M	19.42	19.50	1.02	0.843	0.860
Left		Н	19.47	19.50	1.01	0.874	0.883
Tilted		L2	19.39	19.50	1.03	0.814	0.835
		M2	19.42	19.50	1.02	0.837	0.853
	12.2KRMC	H2	19.47	19.50	1.01	0.912	0.918
	(head)	L	19.39	19.50	1.03	0.920	0.948
		М	19.42	19.50	1.02	1.010	1.030
Right		Н	19.47	19.50	1.01	1.040	1.050
cheek		L2	19.39	19.50	1.03	0.917	0.941
		M2	19.42	19.50	1.02	1.030	1.049
		H2	19.47	19.50	1.01	1.050	1.057
		L	19.39	19.50	1.03	0.896	0.923
		М	19.42	19.50	1.02	1.010	1.030
Right		Н	19.47	19.50	1.01	1.170	1.182
Tilted		L2	19.39	19.50	1.03	0.887	0.910
		M2	19.42	19.50	1.02	1.050	1.070
		H2	19.47	19.50	1.01	1.080	1.087
		L	19.39	19.50	1.03		
Back	40.01/5140	М	19.42	19.50	1.02	0.373	0.380
	12.2KRMC	Н	19.47	19.50	1.01		
	(body-	L	19.39	19.50	1.03		
Front	worn)	M	19.42	19.50	1.02	0.219	0.223
		Н	19.47	19.50	1.01		
		i	19.39	19.50	1.03		
Тор		M	19.42	19.50	1.02	0.330	0.337
156		H	19.47	19.50	1.02		
	-	L	19.39	19.50	1.03		
Left	12.2KRMC	M	19.42	19.50	1.03	0.293	0.299
Leit	(hotspot)	H	19.42	19.50	1.02		
	1	11					
Diabt		L N #	19.39	19.50	1.03	0.167	0.170
Right		M	19.42	19.50	1.02	0.167	0.170
		Н	19.47	19.50	1.01		

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Mode: WCDMA BAND5

fL (MHz)=826.4MHz fM (MHz)=836.4MHz fH (MHz)= 846.6MHz

SAR Values (WCDMA BAND5)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Lillill OI 3	AIN (VV/Ng). >	1.000	/kg (1g Avera	ge)			_
Test	Case	Ch Measure Conducted Power		Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 dotoi	1g Average	1g Average
Left		L	23.38	23.50	1.03		
cheek		М	23.37	23.50	1.03	0.771	0.794
CHEEK		Н	23.41	23.50	1.02	-	
Left		L	23.38	23.50	1.03	-	
Tilted		М	23.37	23.50	1.03	0.762	0.785
Tilled	12.2KRMC	Н	23.41	23.50	1.02		
Right	(head)	L	23.38	23.50	1.03		
cheek		М	23.37	23.50	1.03	0.758	0.781
CHECK		Н	23.41	23.50	1.02		
Right		L	23.38	23.50	1.03		
Tilted		М	23.37	23.50	1.03	0.776	0.799
Tilled		Н	23.41	23.50	1.02		
		L	23.38	23.50	1.03		
Back	12.2KRMC	М	23.37	23.50	1.03	0.227	0.234
		Н	23.41	23.50	1.02		
	(body- worn)	L	23.38	23.50	1.03		
Front	won)	М	23.37	23.50	1.03	0.168	0.173
		Н	23.41	23.50	1.02		
		L	23.38	23.50	1.03		
Тор		М	23.37	23.50	1.03	0.133	0.137
		Н	23.41	23.50	1.02		
	40.000040	L	23.38	23.50	1.03		
Left	12.2KRMC	М	23.37	23.50	1.03	0.091	0.094
	(hotspot)	Н	23.41	23.50	1.02		
		L	23.38	23.50	1.03		
Right		М	23.37	23.50	1.03	0.128	0.132
		Н	23.41	23.50	1.02		



Mode: LTE Band 2

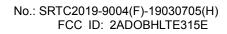
SAR Values (LTE BAND2)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

LIIIII OI	Limit of SAR (W/kg): <1.6W/kg (1g Average)										
Test	Case	Ch	Measure Conducted Power	Tune-up	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)				
position	mode		(dBm)	(dBm)		1g Average	1g Average				
Left		L	16.54	17.00	1.11						
cheek		М	16.52	17.00	1.12	0.351	0.393				
CHECK		Н	16.53	17.00	1.11						
Left		L	16.54	17.00	1.11						
Tilted	20BW	М	16.52	17.00	1.12	0.591	0.662				
Tilled	1RB	Н	16.53	17.00	1.11						
Right	(head)	L	16.54	17.00	1.11						
cheek	(ricau)	M	16.52	17.00	1.12	0.436	0.488				
CHOCK		Н	16.53	17.00	1.11						
Right		L	16.54	17.00	1.11						
Tilted		M	16.52	17.00	1.12	0.676	0.757				
Tilled		Н	16.53	17.00	1.11						
		L	16.54	17.00	1.11						
Back	20BW	М	16.52	17.00	1.12	0.690	0.773				
	1RB	H	16.53	17.00	1.11						
	(body-	L	16.54	17.00	1.11						
Front	worn)	M	16.52	17.00	1.12	0.242	0.271				
		Н	16.53	17.00	1.11						
		L	16.54	17.00	1.11	0.952	1.057				
		М	16.52	17.00	1.12	1.020	1.142				
Ton		Н	16.53	17.00	1.11	0.963	1.069				
Тор		L2	16.54	17.00	1.11	0.948	1.054				
	000147	M2	16.52	17.00	1.12	0.984	1.099				
	20BW	H2	16.53	17.00	1.11	0.972	1.083				
	1RB	L	16.54	17.00	1.11						
Left	Left (hotspot)	М	16.52	17.00	1.12	0.235	0.263				
		Н	16.53	17.00	1.11						
		L	16.54	17.00	1.11						
Right		М	16.52	17.00	1.12	0.154	0.172				
_		Н	16.53	17.00	1.11						

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Left		L	15.76	16.00	1.06		
cheek		М	15.78	16.00	1.05	0.374	0.393
CHECK		Н	15.84	16.00	1.04		
Left		L	15.76	16.00	1.06		
Tilted	000)4/	М	15.78	16.00	1.05	0.617	0.648
Tilleu	20BW 50%RB	Н	15.84	16.00	1.04		
Dight	(head)	L	15.76	16.00	1.06		
Right cheek	(Head)	М	15.78	16.00	1.05	0.464	0.487
CHECK		Н	15.84	16.00	1.04		
Diaht		L	15.76	16.00	1.06		
Right Tilted		М	15.78	16.00	1.05	0.638	0.670
Tilleu		Н	15.84	16.00	1.04		
		L	15.76	16.00	1.06		
Back	20BW	M	15.78	16.00	1.05	0.578	0.607
	50%RB	Н	15.84	16.00	1.04		
	(body-	L	15.76	16.00	1.06		
Front	worn)	M	15.78	16.00	1.05	0.247	0.259
		Н	15.84	16.00	1.04		
	20BW	L	15.76	16.00	1.06		
Тор	50%RB	М	15.78	16.00	1.05	0.754	0.792
-	(hotspot)	L	15.84	16.00	1.04		
	20BW	L	15.65	16.00	1.08		
Тор	100%RB	М	15.69	16.00	1.07	0.563	0.602
	(hotspot)	L	15.76	16.00	1.06		



Mode: LTE Band 4

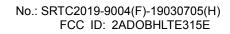
fL (MHz) = 1710.7MHz fM (MHz) = 1732.5MHz fH (MHz) = 1754.3MHz

SAR Values (LTE BAND4) Limit of SAR (W/kg): <1.6W/kg (1g Average)

O/ (I Val)	ucs (LIL D	AND4) L	IMIT OF SAR	w/kg). >1	.uvv/kg (i		
Test	Case	Ch	Measure Conducted Power	Tune-up	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 40101	1g Average	1g Average
		L	19.28	19.50	1.05	0.772	0.811
		М	19.25	19.50	1.06	0.876	0.929
Left		Ι	19.23	19.50	1.06	0.846	0.897
cheek		L2	19.28	19.50	1.05	0.756	0.795
		M2	19.25	19.50	1.06	0.858	0.909
		H2	19.23	19.50	1.06	0.938	0.998
		Ш	19.28	19.50	1.05	0.828	0.869
		М	19.25	19.50	1.06	0.834	0.884
Left		Η	19.23	19.50	1.06	0.852	0.903
Tilted		L2	19.28	19.50	1.05	0.826	0.869
	20BW	M2	19.25	19.50	1.06	0.928	0.983
	1RB	H2	19.23	19.50	1.06	0.948	1.009
	(head)	L	19.28	19.50	1.05	0.853	0.896
	(Head)	М	19.25	19.50	1.06	0.896	0.950
Right		Η	19.23	19.50	1.06	0.848	0.899
cheek		L2	19.28	19.50	1.05	0.921	0.969
		M2	19.25	19.50	1.06	1.020	1.080
		H2	19.23	19.50	1.06	0.946	1.007
		L	19.28	19.50	1.05	0.765	0.803
		М	19.25	19.50	1.06	0.770	0.816
Right		Н	19.23	19.50	1.06	0.821	0.870
Tilted		L2	19.28	19.50	1.05	0.742	0.781
		M2	19.25	19.50	1.06	0.782	0.828
		H2	19.23	19.50	1.06	0.816	0.868
		L	19.28	19.50	1.05		
Back	20BW	М	19.25	19.50	1.06	0.498	0.528
	1RB	Н	19.23	19.50	1.06		
	(body-	L	19.28	19.50	1.05		
Front	worn)	М	19.25	19.50	1.06	0.205	0.217
		Н	19.23	19.50	1.06		
		L	19.28	19.50	1.05		
Тор		М	19.25	19.50	1.06	0.442	0.469
		Н	19.23	19.50	1.06		
	20BW	L	19.28	19.50	1.05		
Left	1RB	М	19.25	19.50	1.06	0.287	0.304
	(hotspot)	Н	19.23	19.50	1.06		
		L	19.28	19.50	1.05		
Right		М	19.25	19.50	1.06	0.148	0.157
Ū		Н	19.23	19.50	1.06		

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		1 1	10 46	10 50	1.01	0.724	0.744
		M	18.46 18.43	18.50 18.50	1.01 1.02	0.734 0.797	0.741 0.813
1.04		Н	18.38	18.50	1.02	0.797	0.850
Left cheek		L2	18.46	18.50	1.03	0.823	0.830
Crieek	CHECK	M2					
			18.43	18.50	1.02	0.786	0.799
		H2	18.38	18.50	1.03	0.816	0.839
		L	18.46	18.50	1.01	0.843	0.851
1 - 0		M	18.43	18.50	1.02	0.875	0.893
Left		Н	18.38	18.50	1.03	0.812	0.836
Tilted		L2	18.46	18.50	1.01	0.825	0.833
	20BW	M2	18.43	18.50	1.02	0.864	0.878
	50%RB	H2	18.38	18.50	1.03	0.904	0.929
	(head)	L	18.46	18.50	1.01	0.821	0.829
	()	М	18.43	18.50	1.02	0.852	0.869
Right		Н	18.38	18.50	1.03	0.863	0.889
cheek		L2	18.46	18.50	1.01	0.916	0.924
		M2	18.43	18.50	1.02	0.958	0.974
		H2	18.38	18.50	1.03	0.972	0.999
		L	18.46	18.50	1.01	0.816	0.824
		М	18.43	18.50	1.02	0.840	0.857
Right		Н	18.38	18.50	1.03	0.832	0.857
Tilted		L2	18.46	18.50	1.01	0.821	0.829
		M2	18.43	18.50	1.02	0.836	0.850
		H2	18.38	18.50	1.03	0.875	0.900
		L	18.46	18.50	1.01		
Back	20BW	M	18.43	18.50	1.02	0.433	0.442
	50%RB	Н	18.38	18.50	1.03		
	(body-	L	18.46	18.50	1.01		
Front	worn)	М	18.43	18.50	1.02	0.233	0.238
	·	Н	18.38	18.50	1.03		
1 6		L	18.37	18.50	1.03		
Left		M	18.32	18.50	1.04	0.761	0.791
cheek		Н	18.29	18.50	1.05		
		L	18.37	18.50	1.03		
Left		M	18.32	18.50	1.04	0.758	0.788
Tilted	20BW	Н	18.29	18.50	1.05		
	100%RB		18.37	18.50	1.03		
Right	(head)	M	18.32	18.50	1.04	0.765	0.796
cheek		Н	18.29	18.50	1.05		
			18.37	18.50	1.03		
Right		М	18.32	18.50	1.04	0.764	0.795
Tilted		Н	18.29	18.50	1.05		
		11	10.28	10.50	1.05		



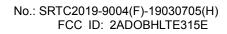
Mode: LTE Band 5

fL (MHz)=829 MHz fM (MHz)=836.5MHz fH (MHz)= 844MHz

SAR Values (LTE BAND5)

Limit of SAR (W/kg) : <1.6W/kg (1g Average)

Limit of SAR (W/kg) : <1.6W/kg (1g Average)											
Te	st Case	Ch	Measure Conducted Power	Tune-up limit (dBm)	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)				
position	mode		(dBm)	(ubiii)		1g Average	1g Average				
Left		L	23.32	23.50	1.04						
cheek		M	23.29	23.50	1.05	0.748	0.785				
CHECK		Н	23.28	23.50	1.05						
Loft	Left	L	23.32	23.50	1.04						
Tilted 10BW 1RB (head)		М	23.29	23.50	1.05	0.751	0.789				
	10BW 1RB	Н	23.28	23.50	1.05						
	L	23.32	23.50	1.04							
cheek		M	23.29	23.50	1.05	0.739	0.776				
CHECK		Н	23.28	23.50	1.05						
Right		L	23.32	23.50	1.04						
Tilted		M		23.29	23.50	1.05	0.752	0.790			
Tilled		Н	23.28	23.50	1.05						
		L	23.32	23.50	1.04						
Back	10BW 1RB	M	23.29	23.50	1.05	0.324	0.340				
	(body-	Н	23.28	23.50	1.05						
	worn)	L	23.32	23.50	1.04						
Front	won)	M	23.29	23.50	1.05	0.155	0.163				
		Н	23.28	23.50	1.05						
		L	23.32	23.50	1.04						
Тор		М	23.29	23.50	1.05	0.133	0.140				
		Н	23.28	23.50	1.05						
	400\400	L	23.32	23.50	1.04						
Left	10BW 1RB	М	23.29	23.50	1.05	0.096	0.101				
	(hotspot)	Н	23.28	23.50	1.05						
		L	23.32	23.50	1.04						
Right		М	23.29	23.50	1.05	0.109	0.114				
		Н	23.28	23.50	1.05						



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		l i l	22.39	22.50	1.03		
Left		L .					
cheek		M	22.35	22.50	1.04	0.688	0.716
Oncor		Н	22.34	22.50	1.04		
Loft	Left	L	22.39	22.50	1.03		
Tilted 10BW	M	22.35	22.50	1.04	0.614	0.639	
	Н	22.34	22.50	1.04			
Diabt	50%RB (head)	L	22.39	22.50	1.03		
Right cheek	(Heau)	M	22.35	22.50	1.04	0.724	0.753
Crieek		Н	22.34	22.50	1.04		
Dight		L	22.39	22.50	1.03		
Right Tilted		M	22.35	22.50	1.04	0.611	0.635
Tilleu		Н	22.34	22.50	1.04		
		L	22.39	22.50	1.03		
Back	10BW	M	22.35	22.50	1.04	0.267	0.278
	50%RB	Н	22.34	22.50	1.04		
	(body-	L	22.39	22.50	1.03		
Front	worn)	М	22.35	22.50	1.04	0.136	0.141
		Н	22.34	22.50	1.04		



Mode: LTE Band 7

SAR Values (LTE BAND7)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Limit of	SAR (W/Kg	J): <1.6VI	<u>//kg (1g Avei</u>	rage)			
Test	Case	Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 40101	1g Average	1g Average
l off		L	15.48	15.50	1.00		
Left cheek		М	15.42	15.50	1.02	0.275	0.281
CHEEK		Ι	15.27	15.50	1.05		
Left		اـ	15.48	15.50	1.00		
Tilted 20BW	20BW	М	15.42	15.50	1.02	0.437	0.446
Tilleu	1RB	Τ	15.27	15.50	1.05		
Right (head)		L	15.48	15.50	1.00		
cheek Right Right	(Head)	М	15.42	15.50	1.02	0.406	0.414
		Η	15.27	15.50	1.05		
		L	15.48	15.50	1.00		
Tilted		М	15.42	15.50	1.02	0.639	0.652
Tilleu		Η	15.27	15.50	1.05		
		L	15.48	15.50	1.00		
Back	20BW	M	15.42	15.50	1.02	1.090	1.112
	1RB	Ι	15.27	15.50	1.05		
	(body-	L	15.48	15.50	1.00		
Front	worn)	М	15.42	15.50	1.02	0.278	0.284
		Н	15.27	15.50	1.05		
		L	15.48	15.50	1.00		
Тор		М	15.42	15.50	1.02	0.427	0.436
		Н	15.27	15.50	1.05		
	20BW	L	15.48	15.50	1.00		
Left	1RB	М	15.42	15.50	1.02	0.368	0.375
	(hotspot)	Н	15.27	15.50	1.05		
		L	15.48	15.50	1.00		
Right		М	15.42	15.50	1.02	0.258	0.263
		Н	15.27	15.50	1.05		

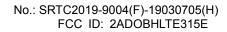


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	1 - 0	L	16.69	17.00	1.07		
Left		M	16.61	17.00	1.09	0.293	0.319
cheek		Н	16.56	17.00	1.11		
l off	Left	L	16.69	17.00	1.07		
Tilted 20BW	М	16.61	17.00	1.09	0.462	0.504	
	Н	16.56	17.00	1.11			
50%RB	(head)	L	16.69	17.00	1.07		
Right cheek	(Head)	M	16.61	17.00	1.09	0.434	0.473
Cileek		Н	16.56	17.00	1.11		
Dight		L	16.69	17.00	1.07		
Right Tilted		M	16.61	17.00	1.09	0.576	0.628
Tilled		Н	16.56	17.00	1.11		
		L	16.69	17.00	1.07		
Back	20BW	M	16.61	17.00	1.09	0.728	0.794
	50%RB	Н	16.56	17.00	1.11		
	(body-	L	16.69	17.00	1.07		
Front	worn)	М	16.61	17.00	1.09	0.291	0.317
		Н	16.56	17.00	1.11		

The State Radio_monitoring_center Testing Center (SRTC)
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Mode: LTE Band 12

fL (MHz)=704 MHz fM (MHz)=707.5MHz fH (MHz)=711MHz

SAR Values (LTE BAND12)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

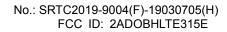
Limit of	SAR (W/kg)	: <1.6	W/kg (1g Aver	age)			
Tes	t Case	Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	position		(dBm)	(dBm)	1 40101	1g Average	1g Average
Left		L	23.27	23.50	1.05		
cheek		М	23.24	23.50	1.06	0.424	0.449
CHECK		Н	23.21	23.50	1.07		
Left		L	23.27	23.50	1.05		
Tilted	10BW	М	23.24	23.50	1.06	0.389	0.412
Tilleu	10BW 1RB	Н	23.21	23.50	1.07		
Right	(head)	L	23.27	23.50	1.05		
cheek	(ricad)	М	23.24	23.50	1.06	0.452	0.479
		Н	23.21	23.50	1.07		
		L	23.27	23.50	1.05		
Tilted		М	23.24	23.50	1.06	0.429	0.455
Tilleu		Н	23.21	23.50	1.07		
		L	23.27	23.50	1.05		
Back	10BW	M	23.24	23.50	1.06	0.166	0.176
	1RB	Н	23.21	23.50	1.07		
	(body-	L	23.27	23.50	1.05		
Front	worn)	M	23.24	23.50	1.06	0.097	0.103
		Н	23.21	23.50	1.07		
		L	23.27	23.50	1.05		
Тор		М	23.24	23.50	1.06	0.056	0.059
		Н	23.21	23.50	1.07		
	10BW	L	23.27	23.50	1.05		
Left	1RB	М	23.24	23.50	1.06	0.096	0.102
	(hotspot)	Н	23.21	23.50	1.07		
		L	23.27	23.50	1.05		
Right		М	23.24	23.50	1.06	0.097	0.103
_		Н	23.21	23.50	1.07		



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Left		L	22.38	22.50	1.03		
cheek		М	22.36	22.50	1.03	0.362	0.373
Cileek		Н	22.35	22.50	1.04		
Left Tilted 10BW	L	22.38	22.50	1.03			
	10014	М	22.36	22.50	1.03	0.330	0.340
	Н	22.35	22.50	1.04			
50%RB	(head)	L	22.38	22.50	1.03		
Right cheek	(Head)	М	22.36	22.50	1.03	0.446	0.459
CHEEK		Н	22.35	22.50	1.04		
Diabt		L	22.38	22.50	1.03		
Right Tilted		М	22.36	22.50	1.03	0.359	0.370
Tilleu		Н	22.35	22.50	1.04		
		L	22.38	22.50	1.03		
Back	10BW	М	22.36	22.50	1.03	0.134	0.138
	50%RB	Н	22.35	22.50	1.04		
	(body-	L	22.38	22.50	1.03		
Front	worn)	М	22.36	22.50	1.03	0.082	0.084
		Н	22.35	22.50	1.04		





Mode: LTE Band 66

SAR Values (LTE BAND66)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Limit of SAR (W/kg		: <1.6	w/kg (1g Aver	age)			
Tes	t Case	Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	position		(dBm)	(dBm)	1 40101	1g Average	1g Average
Left		Г	18.21	18.50	1.07		
cheek		М	18.17	18.50	1.08	0.739	0.798
CHECK		Н	18.36	18.50	1.03		
Left		L	18.21	18.50	1.07		
Tilted 20BW	20PW	М	18.17	18.50	1.08	0.734	0.793
Tilleu	1RB	Н	18.36	18.50	1.03		
Dight	(head)	L	18.21	18.50	1.07		
Right (head) cheek Right	(ricad)	M	18.17	18.50	1.08	0.740	0.799
		Н	18.36	18.50	1.03		
		L	18.21	18.50	1.07		
Tilted		М	18.17	18.50	1.08	0.735	0.794
Tilled		Н	18.36	18.50	1.03		
		L	18.21	18.50	1.07		
Back	20BW	М	18.17	18.50	1.08	0.514	0.555
	1RB	Н	18.36	18.50	1.03		
	(body-	L	18.21	18.50	1.07		
Front	worn)	М	18.17	18.50	1.08	0.225	0.243
		Н	18.36	18.50	1.03		
		L	18.21	18.50	1.07		
Тор		М	18.17	18.50	1.08	0.484	0.523
		Н	18.36	18.50	1.03		
	20BW	L	18.21	18.50	1.07		
Left	1RB	М	18.17	18.50	1.08	0.277	0.299
	(hotspot)	Н	18.36	18.50	1.03		
	- •	L	18.21	18.50	1.07		
Right		М	18.17	18.50	1.08	0.172	0.186
		Н	18.36	18.50	1.03		

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Left		L	17.48	17.50	1.00		
cheek		M	17.42	17.50	1.02	0.768	0.783
CHEEK		Н	17.47	17.50	1.01		
l off	Left	L	17.48	17.50	1.00		
Tilted 20BW	М	17.42	17.50	1.02	0.771	0.786	
	Н	17.47	17.50	1.01			
50%RB		L	17.48	17.50	1.00		
Right cheek	(head)	М	17.42	17.50	1.02	0.774	0.789
Crieek		Н	17.47	17.50	1.01		
Diaht		L	17.48	17.50	1.00		
Right Tilted		М	17.42	17.50	1.02	0.781	0.797
Tilled		Н	17.47	17.50	1.01		
		L	17.48	17.50	1.00		
Back	20BW	М	17.42	17.50	1.02	0.428	0.437
	50%RB	Н	17.47	17.50	1.01		
	(body-	L	17.48	17.50	1.00		
Front	worn)	М	17.42	17.50	1.02	0.230	0.235
		Н	17.47	17.50	1.01		



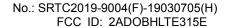
Mode: Bluetooth

fM (MHz)=2441MHz fH (MHz)= 2480MHz fL (MHz)=2402MHz

SAR Values (Wi-Fi 802.11b) Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test Case		Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	i actor	1g Average	1g Average
Left		L	8.12	9.00	1.22		
cheek		М	8.55	9.00	1.11	0.004	0.004
CHECK		Н	8.63	9.00	1.09		
Left		L	8.12	9.00	1.22		
Tilted	802.11b	М	8.55	9.00	1.11	0.005	0.006
Tilleu	(head)	Н	8.63	9.00	1.09		
Right	(Heau)	L	8.12	9.00	1.22		
cheek		М	8.55	9.00	1.11	0.004	0.004
CHEEK		Н	8.63	9.00	1.09		
Dight		L	8.12	9.00	1.22		
Right Tilted		M	8.55	9.00	1.11	0.003	0.003
Tilleu		Н	8.63	9.00	1.09		
		L	8.12	9.00	1.22		
Back		М	8.55	9.00	1.11	0.004	0.004
	802.11b	Н	8.63	9.00	1.09		
	(body- worn)	L	8.12	9.00	1.22		
Front	·	М	8.55	9.00	1.11	0.003	0.003
		Н	8.63	9.00	1.09		

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Mode: Wi-Fi 2.4GHz

fL (MHz)=2412MHz fM (MHz)=2437MHz fH (MHz)= 2462MHz

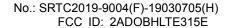
SAR Values (Wi-Fi 802.11b)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Lillil Of SP	AR (VV/Kg): <1.6VV/	kg (1				Measure	Reported
Т	est Case	Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Results (W/kg)	Results (W/kg)
position	mode		(dBm)	(dBm)	Facioi	1g Average	1g Average
Left		L	14.23	14.50	1.06		
cheek		М	14.42	14.50	1.02	0.237	0.242
CHECK	Н	14.01	14.50	1.12			
Loft	Left Tilted 802.11b	L	14.23	14.50	1.06		
		М	14.42	14.50	1.02	0.181	0.185
11Ited 802.11b (head)	Н	14.01	14.50	1.12			
Diaht	(Heau)	L	14.23	14.50	1.06		
Right cheek		М	14.42	14.50	1.02	0.082	0.084
CHEEK		Н	14.01	14.50	1.12		
Right		L	14.23	14.50	1.06		
Tilted		М	14.42	14.50	1.02	0.085	0.087
Tilleu		Н	14.01	14.50	1.12		
		L	14.23	14.50	1.06		
Back		М	14.42	14.50	1.02	0.034	0.035
	802.11b	Н	14.01	14.50	1.12		
	(body- worn)	L	14.23	14.50	1.06		
Front		М	14.42	14.50	1.02	0.040	0.041
		Н	14.01	14.50	1.12		
		L	14.23	14.50	1.06		
Тор		М	14.42	14.50	1.02	0.031	0.032
	802.11b	Н	14.01	14.50	1.12		
	(hotspot)	L	14.23	14.50	1.06		
Left		М	14.42	14.50	1.02	0.004	0.004
		Н	14.01	14.50	1.12		

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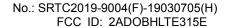
Mode: WIFI UNII-1&UNII-2A

fL (MHz)=5260MHz fM (MHz)=5300MHz fH (MHz)=5320MHz

SAR Values (Wi-Fi 802.11a)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

LITTIL OF SP	AR (VV/Kg): <1.6VV/	Ng (1	g Average)			Mossure	Donorted
Т	Test Case		Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 actor	1g Average	1g Average
Left		L	11.67	12.00	1.08		
cheek		М	11.69	12.00	1.07	0.284	0.304
CHEEK		Н	11.73	12.00	1.06		
Left		L	11.67	12.00	1.08		
		М	11.69	12.00	1.07	0.321	0.343
Tilted 802.11a (head)	Н	11.73	12.00	1.06			
Dight	(Heau)	L	11.67	12.00	1.08		
Right cheek		М	11.69	12.00	1.07	0.246	0.263
CHEEK		Н	11.73	12.00	1.06		
Right		L	11.67	12.00	1.08		
Tilted		M	11.69	12.00	1.07	0.243	0.260
Tilleu		Н	11.73	12.00	1.06		
		L	11.67	12.00	1.08		
Back		М	11.69	12.00	1.07	0.027	0.029
	802.11a	Н	11.73	12.00	1.06		
	(body- worn)	L	11.67	12.00	1.08		
Front		М	11.69	12.00	1.07	0.039	0.042
		Н	11.73	12.00	1.06		
		L	11.67	12.00	1.08		
Тор		М	11.69	12.00	1.07	0.028	0.030
	802.11a	Н	11.73	12.00	1.06		
	(hotspot)	L	11.67	12.00	1.08		
Left		М	11.69	12.00	1.07	0.018	0.019
		Н	11.73	12.00	1.06		



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Mode: WIFI UNII-2C

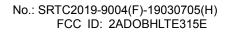
fL (MHz)=5500MHz fM (MHz)=5580MHz fH (MHz)= 5700MHz

SAR Values (Wi-Fi 802.11a)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Lillil Of SP	AR (VV/Kg): <1.6VV/	kg (1				Measure	Reported
Т	est Case	Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Results (W/kg)	Results (W/kg)
position	mode		(dBm)	(dBm)	Facioi	1g Average	1g Average
Left		L	11.43	11.50	1.02		
cheek		М	11.38	11.50	1.03	0.321	0.331
CHECK	Н	11.42	11.50	1.02			
Loft	Left 802.11a	L	11.43	11.50	1.02		
		М	11.38	11.50	1.03	0.374	0.385
111ted 802.11a (head)	Н	11.42	11.50	1.02			
Right	(Head)	L	11.43	11.50	1.02		
cheek		М	11.38	11.50	1.03	0.274	0.282
CHECK		Н	11.42	11.50	1.02		
Right		L	11.43	11.50	1.02		
Tilted		M	11.38	11.50	1.03	0.243	0.250
Tilleu		Н	11.42	11.50	1.02		
		L	11.43	11.50	1.02		
Back		М	11.38	11.50	1.03	0.029	0.030
	802.11a	Н	11.42	11.50	1.02		
	(body- worn)	L	11.43	11.50	1.02		
Front		М	11.38	11.50	1.03	0.036	0.037
		Н	11.42	11.50	1.02		
		L	11.43	11.50	1.02		
Тор		М	11.38	11.50	1.03	0.024	0.025
	802.11a	Н	11.42	11.50	1.02		
	(hotspot)	L	11.43	11.50	1.02		
Left		М	11.38	11.50	1.03	0.019	0.020
		Н	11.42	11.50	1.02		

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Mode: WIFI UNII-3

fL (MHz)=5745MHz fM (MHz)=5785MHz fH (MHz)= 5825MHz

SAR Values (Wi-Fi 802.11a)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Limit of SAR (VV/kg): <1.6VV/kg (1g Average)								
Test Case		Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)	
position	mode		(dBm)	(dBm)	i actor	1g Average	1g Average	
Left		L	11.43	11.50	1.02			
cheek		М	11.38	11.50	1.03	0.353	0.364	
CHECK		Н	11.42	11.50	1.02			
Left		L	11.43	11.50	1.02			
Tilted	802.11a (head)	M	11.38	11.50	1.03	0.393	0.405	
Tilleu		Н	11.42	11.50	1.02			
Dight		L	11.43	11.50	1.02			
Right cheek		М	11.38	11.50	1.03	0.275	0.283	
CHECK		Н	11.42	11.50	1.02			
Right		L	11.43	11.50	1.02			
Tilted		М	11.38	11.50	1.03	0.290	0.299	
Tilled		Н	11.42	11.50	1.02			
	802.11a (body- worn)	L	11.43	11.50	1.02			
Back		М	11.38	11.50	1.03	0.037	0.038	
		Н	11.42	11.50	1.02			
		L	11.43	11.50	1.02			
Front		М	11.38	11.50	1.03	0.048	0.049	
		Н	11.42	11.50	1.02			
	802.11a (hotspot)	L	11.43	11.50	1.02			
Тор		М	11.38	11.50	1.03	0.026	0.027	
		Н	11.42	11.50	1.02			
Left		L	11.43	11.50	1.02			
		М	11.38	11.50	1.03	0.015	0.015	
		Н	11.42	11.50	1.02			

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Down Antenna

Mode: GSM 850(GPRS)

fL(MHz)=824.2MHz fM(MHz)=836.5MHz fH(MHz)= 848.8MHz

SAR Values (850MHz Band)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test Case		Ch	Measure Conducted Power	Tune-up limit	Scaling	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	Factor	1g Average	1g Average
Left		L	29.18	29.50	1.08		
cheek		М	29.12	29.50	1.09	0.223	0.243
CHEEK		Τ	29.08	29.50	1.10		
Left		L	29.18	29.50	1.08		
Tilted	GPRS	М	29.12	29.50	1.09	0.137	0.149
Tilled	4TX	Н	29.08	29.50	1.10		
Right	(head)	L	29.18	29.50	1.08		
cheek	(Head)	M	29.12	29.50	1.09	0.248	0.270
CHECK		Н	29.08	29.50	1.10		
Right		L	29.18	29.50	1.08		
Tilted		M	29.12	29.50	1.09	0.156	0.170
Titted		Τ	29.08	29.50	1.10		
	GPRS 4TX	L	29.18	29.50	1.08		
Back		M	29.12	29.50	1.09	0.362	0.395
		Н	29.08	29.50	1.10		
	(body- worn)	L	29.18	29.50	1.08		
Front		М	29.12	29.50	1.09	0.342	0.373
		Τ	29.08	29.50	1.10		
	GPRS 4TX (hotspot)	L	29.18	29.50	1.08		
Bottom		М	29.12	29.50	1.09	0.223	0.243
		Н	29.08	29.50	1.10		
Left		L	29.18	29.50	1.08		
		М	29.12	29.50	1.09	0.418	0.456
		Ι	29.08	29.50	1.10		
Right		L	29.18	29.50	1.08		
		М	29.12	29.50	1.09	0.271	0.295
		Н	29.08	29.50	1.10		

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Mode: GSM1900(GPRS)

fL (MHz)=1850.2MHz fM (MHz)=1880.0MHz fH (MHz)=1909.8MHz

SAR Values (1900MHz Band)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test Case		Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)	
position	mode		(dBm)	(dBm)	1 actor	1g Average	1g Average	
Left		L	26.37	27.00	1.16			
cheek		М	26.42	27.00	1.14	0.040	0.046	
Cricck		Н	26.53	27.00	1.11			
Left		L	26.37	27.00	1.16			
Tilted	GPRS	М	26.42	27.00	1.14	0.030	0.034	
Titted	4TX	Н	26.53	27.00	1.11			
Right	(head)	L	26.37	27.00	1.16			
cheek	(ricad)	M	26.42	27.00	1.14	0.035	0.040	
Cricck		Н	26.53	27.00	1.11			
Right		L	26.37	27.00	1.16			
Tilted		М	26.42	27.00	1.14	0.039	0.044	
Titted		Н	26.53	27.00	1.11			
	GPRS 4TX (body- worn)	L	26.37	27.00	1.16			
Back		М	26.42	27.00	1.14	0.487	0.555	
		Н	26.53	27.00	1.11			
		L	26.37	27.00	1.16			
Front		М	26.42	27.00	1.14	0.404	0.461	
		Н	26.53	27.00	1.11			
	GPRS 4TX (hotspot)	L1	26.37	27.00	1.16	0.743	0.862	
		M1	26.42	27.00	1.14	0.768	0.876	
Bottom		H1	26.53	27.00	1.11	0.752	0.835	
BOLLOITI		L2	26.37	27.00	1.16	0.739	0.854	
		M2	26.42	27.00	1.14	0.758	0.866	
		H2	26.53	27.00	1.11	0.754	0.840	
Left		L	26.37	27.00	1.16			
		М	26.42	27.00	1.14	0.058	0.066	
		Н	26.53	27.00	1.11			
		L	26.37	27.00	1.16			
Right		М	26.42	27.00	1.14	0.024	0.027	
	Tagrit		Н	26.53	27.00	1.11		



Mode: WCDMA BAND2

SAR Values (WCDMA BAND2)

Limit of SAR (W/kg) :< 1.6W/kg (1g Average)

fH (MHz)= 1907.6MHz

Test Case		Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 40101	1g Average	1g Average
Left		L	23.70	24.00	1.07		
cheek		M	23.77	24.00	1.05	0.057	0.060
CHOCK		Н	23.79	24.00	1.05		
Left		L	23.70	24.00	1.07		
Tilted		M	23.77	24.00	1.05	0.036	0.038
Tilled	12.2KRMC	Н	23.79	24.00	1.05		
Right	(head)	L	23.70	24.00	1.07		
cheek		M	23.77	24.00	1.05	0.047	0.049
Oncor		Н	23.79	24.00	1.05		
Right		L	23.70	24.00	1.07		
Tilted		M	23.77	24.00	1.05	0.050	0.053
Tilled		Н	23.79	24.00	1.05		
	12.2KRMC (body- worn)	L	23.70	24.00	1.07		
Back		M	23.77	24.00	1.05	0.653	0.686
		Н	23.79	24.00	1.05		
		L	23.70	24.00	1.07		
Front		M	23.77	24.00	1.05	0.489	0.513
		Н	23.79	24.00	1.05		
	12.2KRMC (hotspot)	L1	23.70	24.00	1.07	0.897	0.960
		M1	23.77	24.00	1.05	0.910	0.956
Bottom		H1	23.79	24.00	1.05	0.904	0.949
DOLLOITI		L2	23.70	24.00	1.07	0.893	0.957
		M2	23.77	24.00	1.05	0.907	0.956
		H2	23.79	24.00	1.05	0.902	0.947
Left		L	23.70	24.00	1.07		
		М	23.77	24.00	1.05	0.077	0.081
		Н	23.79	24.00	1.05		
Right		L	23.70	24.00	1.07		
		М	23.77	24.00	1.05	0.033	0.035
		Н	23.79	24.00	1.05		

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Mode: WCDMA BAND4

fL (MHz)= 1712.4MHz fM (MHz)= 1732.4MHz fH (MHz)= 1752.6MHz

SAR Values (WCDMA BAND4)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test Case		Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	i actor	1g Average	1g Average
Left		L	23.39	24.00	1.15		
cheek		М	23.42	24.00	1.14	0.007	0.008
CHECK		Н	23.57	24.00	1.10		
Left		L	23.39	24.00	1.15		
Tilted		М	23.42	24.00	1.14	0.054	0.062
Tilled	12.2KRMC	Н	23.57	24.00	1.10		
Right	(head)	L	23.39	24.00	1.15		
cheek		М	23.42	24.00	1.14	0.009	0.010
OHOCK		Н	23.57	24.00	1.10		
Right		L	23.39	24.00	1.15		
Tilted		M	23.42	24.00	1.14	0.011	0.013
Tilled		Η	23.57	24.00	1.10		
	12.2KRMC (body- worn)	L	23.39	24.00	1.15		
Back		М	23.42	24.00	1.14	0.101	0.115
		Η	23.57	24.00	1.10		
		L	23.39	24.00	1.15		
Front		М	23.42	24.00	1.14	0.076	0.087
		Η	23.57	24.00	1.10		
	12.2KRMC (hotspot)	L	23.39	24.00	1.15		
Bottom		М	23.42	24.00	1.14	0.133	0.152
		Н	23.57	24.00	1.10		
Left		L	23.39	24.00	1.15		
		М	23.42	24.00	1.14	0.005	0.006
		Η	23.57	24.00	1.10		
		L	23.39	24.00	1.15		
Right		М	23.42	24.00	1.14	0.005	0.006
J		Н	23.57	24.00	1.10		



Mode: WCDMA BAND5

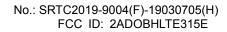
fL (MHz)=826.4MHz fM (MHz)=836.4MHz fH (MHz)= 846.6MHz

SAR Values (WCDMA BAND5)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Test	Case	Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 actor	1g Average	1g Average
Left		L	23.38	23.50	1.03		
cheek		М	23.37	23.50	1.03	0.134	0.138
		Τ	23.41	23.50	1.02		
Left		L	23.38	23.50	1.03		
Tilted		М	23.37	23.50	1.03	0.068	0.070
Tilleu	12.2KRMC	Τ	23.41	23.50	1.02		
Right	(head)	L	23.38	23.50	1.03		
cheek		М	23.37	23.50	1.03	0.137	0.141
CHECK		Η	23.41	23.50	1.02		
Right		L	23.38	23.50	1.03		
Tilted		М	23.37	23.50	1.03	0.070	0.072
Tilled		Н	23.41	23.50	1.02		
	40.000040	L	23.38	23.50	1.03		
Back		М	23.37	23.50	1.03	0.184	0.190
	12.2KRMC	Η	23.41	23.50	1.02		
	(body- worn)	L	23.38	23.50	1.03		
Front	won)	М	23.37	23.50	1.03	0.155	0.160
		Н	23.41	23.50	1.02		
		L	23.38	23.50	1.03		
Bottom		М	23.37	23.50	1.03	0.231	0.238
		Н	23.41	23.50	1.02		
	40.0000	L	23.38	23.50	1.03		
Left	12.2KRMC	М	23.37	23.50	1.03	0.133	0.137
	(hotspot)	Н	23.41	23.50	1.02		
		L	23.38	23.50	1.03		
Right		М	23.37	23.50	1.03	0.195	0.201
		Н	23.41	23.50	1.02		

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Mode: LTE Band 2

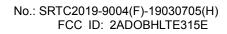
fL (MHz) = 1860MHz fM (MHz) = 1880MHz fH (MHz) = 1900MHz

SAR Values (LTE BAND2)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Lillit OI	SAN (VV/NG	jj. > 1.0 v i	//kg (1g Avei □	age)		Massins	Danadad
Test	Test Case		Measure Conducted Power	Tune-up	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	mode		(dBm)	(dBm)	1 40101	1g Average	1g Average
Loff		L	23.54	24.00	1.11		
Left cheek		М	23.52	24.00	1.12	0.046	0.052
Crieek		Н	23.53	24.00	1.11		
Left		L	23.54	24.00	1.11		
Tilted	20BW	М	23.52	24.00	1.12	0.037	0.041
Tilleu	1RB	Н	23.53	24.00	1.11		
Right	(head)	L	23.54	24.00	1.11		
cheek	(Head)	M	23.52	24.00	1.12	0.044	0.049
CHECK		H	23.53	24.00	1.11		
Right		L	23.54	24.00	1.11		
Tilted		М	23.52	24.00	1.12	0.053	0.059
Tilled		H	23.53	24.00	1.11		
		L	23.54	24.00	1.11		
Back	20BW	М	23.52	24.00	1.12	0.379	0.424
	1RB	Н	23.53	24.00	1.11		
	(body-	L	23.54	24.00	1.11		
Front	worn)	M	23.52	24.00	1.12	0.396	0.444
		Н	23.53	24.00	1.11		
		L1	23.54	24.00	1.11		
Bottom		M1	23.52	24.00	1.12	0.706	0.791
		H1	23.53	24.00	1.11		
	20BW	L	23.54	24.00	1.11		
Left	1RB	М	23.52	24.00	1.12	0.245	0.274
	(hotspot)	Н	23.53	24.00	1.11		
		L	23.54	24.00	1.11		
Right		М	23.52	24.00	1.12	0.145	0.162
		Н	23.53	24.00	1.11		

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Left cheek	L	22.76	23.00	1.06			
		M	22.78	23.00	1.05	0.040	0.042
Crieek		Н	22.84	23.00	1.04		
1.04		L	22.76	23.00	1.06		
Left	20014	М	22.78	23.00	1.05	0.031	0.033
Tilted	20BW	Н	22.84	23.00	1.04		
Diabt	50%RB	L	22.76	23.00	1.06		
Right cheek	(head)	М	22.78	23.00	1.05	0.040	0.042
Crieek		Н	22.84	23.00	1.04		
Diabt		L	22.76	23.00	1.06		
Right Tilted		М	22.78	23.00	1.05	0.041	0.043
Tilled		Н	22.84	23.00	1.04		
		L	22.76	23.00	1.06		
Back	20BW	М	22.78	23.00	1.05	0.296	0.311
	50%RB	Н	22.84	23.00	1.04		
	(body-	L	22.76	23.00	1.06		
Front	worn)	М	22.78	23.00	1.05	0.331	0.348
		Н	22.84	23.00	1.04		

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Mode: LTE Band 4

fL (MHz)= 1710.7MHz fM (MHz)= 1732.5MHz fH (MHz)= 1754.3MHz

SAR Values (LTE BAND4)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Limit of SAR (W/kg): <1.6W/kg (1g Average)										
Test	Test Case		Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)			
position	mode		(dBm)	(dBm)	1 dotoi	1g Average	1g Average			
1.4		L	23.28	23.50	1.05					
Left cheek		М	23.25	23.50	1.06	0.010	0.011			
Crieek		Η	23.23	23.50	1.06					
Left		L	23.28	23.50	1.05					
Tilted	20BW	М	23.25	23.50	1.06	0.010	0.011			
Tilleu	1RB	Ι	23.23	23.50	1.06					
Right	(head)	L	23.28	23.50	1.05					
cheek	(Heau)	М	23.25	23.50	1.06	0.010	0.011			
CHECK		Η	23.23	23.50	1.06					
Right		L	23.28	23.50	1.05					
Tilted		М	23.25	23.50	1.06	0.012	0.013			
Tilleu		Η	23.23	23.50	1.06					
		L	23.28	23.50	1.05					
Back	20BW	М	23.25	23.50	1.06	0.067	0.071			
	1RB	Ι	23.23	23.50	1.06					
	(body-	L	23.28	23.50	1.05					
Front	worn)	М	23.25	23.50	1.06	0.068	0.072			
		Н	23.23	23.50	1.06					
		L	23.28	23.50	1.05					
Bottom		М	23.25	23.50	1.06	0.145	0.154			
		Н	23.23	23.50	1.06					
	20BW	L	23.28	23.50	1.05					
Left	1RB	М	23.25	23.50	1.06	0.134	0.142			
l l	(hotspot)	Н	23.23	23.50	1.06					
		L	23.28	23.50	1.05					
Right		М	23.25	23.50	1.06	0.138	0.146			
		Н	23.23	23.50	1.06					



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l off	Left	L	22.46	22.50	1.01		
cheek		M	22.43	22.50	1.02	0.009	0.009
CHEEK		Н	22.38	22.50	1.03		
1.04		L	22.46	22.50	1.01		
Left Tilted	20014	M	22.43	22.50	1.02	0.007	0.007
Tilled	20BW	Н	22.38	22.50	1.03		
Diabt	50%RB (head)	L	22.46	22.50	1.01		
Right cheek	(Head)	М	22.43	22.50	1.02	0.009	0.009
CHEEK		Н	22.38	22.50	1.03		
Diabt		L	22.46	22.50	1.01		
Right Tilted		M	22.43	22.50	1.02	0.007	0.007
Tilleu		Н	22.38	22.50	1.03		
		L	22.46	22.50	1.01		
Back	20BW	M	22.43	22.50	1.02	0.066	0.067
	50%RB	Н	22.38	22.50	1.03		
	(body-	L	22.46	22.50	1.01		
Front	worn)	М	22.43	22.50	1.02	0.061	0.062
		Н	22.38	22.50	1.03		

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Mode: LTE Band 5

SAR Values (LTE BAND5)

Limit of SAR (W/kg) : <1.6W/kg (1g Average)

Limit of SAR (W/kg) : <1.6W/kg (1g Average)										
Tes	Test Case		Measure Conducted Power	Tune-up	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)			
position	mode		(dBm)	(dBm)		1g Average	1g Average			
Left		L	23.32	23.50	1.04					
cheek		М	23.29	23.50	1.05	0.096	0.101			
Crieek		Н	23.28	23.50	1.05					
Left		L	23.32	23.50	1.04					
Tilted		M	23.29	23.50	1.05	0.062	0.065			
Tilleu	10BW 1RB	Н	23.28	23.50	1.05					
Dight	(head)	L	23.32	23.50	1.04					
Right cheek		M	23.29	23.50	1.05	0.119	0.125			
CHEEK		Н	23.28	23.50	1.05					
Right		L	23.32	23.50	1.04					
Tilted		M	23.29	23.50	1.05	0.054	0.057			
Tilleu		Н	23.28	23.50	1.05					
	4000400	L	23.32	23.50	1.04					
Back		M	23.29	23.50	1.05	0.187	0.196			
	10BW 1RB (body-	Н	23.28	23.50	1.05					
	worn)	L	23.32	23.50	1.04					
Front	woiii)	M	23.29	23.50	1.05	0.129	0.135			
		Н	23.28	23.50	1.05					
		L	23.32	23.50	1.04					
Bottom		М	23.29	23.50	1.05	0.096	0.101			
		Н	23.28	23.50	1.05					
	1000// 100	L	23.32	23.50	1.04					
Left	10BW 1RB	М	23.29	23.50	1.05	0.070	0.074			
	(hotspot)	Н	23.28	23.50	1.05					
		L	23.32	23.50	1.04					
Right		М	23.29	23.50	1.05	0.126	0.132			
_		Н	23.28	23.50	1.05					

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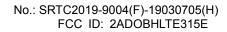


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Loft	Left	L	22.39	22.50	1.03		
cheek		M	22.35	22.50	1.04	0.080	0.083
CHEEK		Н	22.34	22.50	1.04		
1.04		L	22.39	22.50	1.03		
Left	400\\	М	22.35	22.50	1.04	0.048	0.050
Tilted	10BW	Н	22.34	22.50	1.04		
Diaht	50%RB	L	22.39	22.50	1.03		
Right cheek	(head)	M	22.35	22.50	1.04	0.093	0.097
Crieek		Н	22.34	22.50	1.04		
Diaht		L	22.39	22.50	1.03		
Right Tilted		M	22.35	22.50	1.04	0.043	0.045
Tilled		Н	22.34	22.50	1.04		
		L	22.39	22.50	1.03		
Back	10BW	M	22.35	22.50	1.04	0.142	0.148
	50%RB	Н	22.34	22.50	1.04		
	(body-	L	22.39	22.50	1.03		
Front	worn)	М	22.35	22.50	1.04	0.106	0.110
		Н	22.34	22.50	1.04		

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Mode: LTE Band 7

fL (MHz)=2510 MHz fM (MHz)=2535MHz fH (MHz)= 2560MHz

SAR Values (LTE BAND7)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Lilling Oi 4	Limit of SAR (W/kg): <1.6W/kg (1g Average)									
Test	Test Case		Measure Conducted Power	Tune-up	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)			
position	position		(dBm)	(dBm)	1 dotoi	1g Average	1g Average			
1.0#		L	23.48	23.50	1.00					
Left cheek		М	23.42	23.50	1.02	0.033	0.034			
CHECK		Η	23.27	23.50	1.05					
Left		L	23.48	23.50	1.00					
Tilted	20BW	М	23.42	23.50	1.02	0.065	0.066			
Tilled	1RB	Н	23.27	23.50	1.05					
Right	(head)	L	23.48	23.50	1.00					
cheek	(ricad)	М	23.42	23.50	1.02	0.075	0.077			
CHCCK		Н	23.27	23.50	1.05					
Right		L	23.48	23.50	1.00					
Tilted		M	23.42	23.50	1.02	0.060	0.061			
Tilled		Н	23.27	23.50	1.05					
	20BW M		23.48	23.50	1.00					
Back		М	23.42	23.50	1.02	0.179	0.183			
	1RB	Н	23.27	23.50	1.05					
	(body-	L	23.48	23.50	1.00					
Front	worn)	М	23.42	23.50	1.02	0.144	0.147			
		Н	23.27	23.50	1.05					
		L	23.48	23.50	1.00					
Bottom		М	23.42	23.50	1.02	0.300	0.306			
		Τ	23.27	23.50	1.05					
	20BW	L	23.48	23.50	1.00					
Left	1RB	М	23.42	23.50	1.02	0.254	0.259			
	(hotspot)	Н	23.27	23.50	1.05					
		L	23.48	23.50	1.00					
Right		М	23.42	23.50	1.02	0.024	0.024			
		Н	23.27	23.50	1.05					

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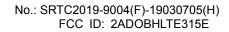


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			22.22	22.22	4.0-	I	
Left cheek		L	22.69	23.00	1.07		
		М	22.61	23.00	1.09	0.028	0.031
Cricek		Н	22.56	23.00	1.11		
Loft		L	22.69	23.00	1.07		
Left Tilted	200/4/	М	22.61	23.00	1.09	0.054	0.059
Tilled	20BW	Н	22.56	23.00	1.11		
Diaht	50%RB (head)	L	22.69	23.00	1.07		
Right cheek	(Heau)	М	22.61	23.00	1.09	0.064	0.070
CHEEK		Н	22.56	23.00	1.11		
Diabt		L	22.69	23.00	1.07		
Right Tilted		М	22.61	23.00	1.09	0.042	0.046
Tilleu		Н	22.56	23.00	1.11		
		L	22.69	23.00	1.07		
Back	20BW	M	22.61	23.00	1.09	0.152	0.166
	50%RB	Н	22.56	23.00	1.11		
	(body-	L	22.69	23.00	1.07		
Front	worn)	М	22.61	23.00	1.09	0.177	0.193
		Н	22.56	23.00	1.11		

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Mode: LTE Band 12

SAR Values (LTE BAND12)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Limit of SAR (W/kg)		: <1.6	w/kg (1g Aver	age)			
Test Case		Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	position		(dBm)	(dBm)	1 actor	1g Average	1g Average
Left		L	23.27	23.50	1.05		
cheek		М	23.24	23.50	1.06	0.058	0.061
CHECK		Н	23.21	23.50	1.07		
Left		L	23.27	23.50	1.05		
Tilted	10BW	М	23.24	23.50	1.06	0.030	0.032
Tilled	1RB	Н	23.21	23.50	1.07		
Right	(head)	L	23.27	23.50	1.05		
cheek	(ricaa)	М	23.24	23.50	1.06	0.053	0.056
CHCCK		Н	23.21	23.50	1.07		
Right		L	23.27	23.50	1.05		
Tilted		М	23.24	23.50	1.06	0.260	0.276
Tilled		Н	23.21	23.50	1.07		
		L	23.27	23.50	1.05		
Back	10BW	М	23.24	23.50	1.06	0.121	0.128
	1RB	Н	23.21	23.50	1.07		
	(body-	L	23.27	23.50	1.05		
Front	worn)	М	23.24	23.50	1.06	0.088	0.093
		Η	23.21	23.50	1.07		
		L	23.27	23.50	1.05		
Bottom		М	23.24	23.50	1.06	0.032	0.034
		Н	23.21	23.50	1.07		
	10BW	L	23.27	23.50	1.05		
Left	1RB	М	23.24	23.50	1.06	0.100	0.106
	(hotspot)	Н	23.21	23.50	1.07		
		L	23.27	23.50	1.05		
Right		М	23.24	23.50	1.06	0.109	0.116
_		Н	23.21	23.50	1.07		

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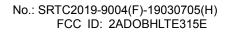


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		1 .	00.00	00.50	4.00		
Left cheek		L	22.38	22.50	1.03		
		M	22.36	22.50	1.03	0.047	0.048
CHECK		Н	22.35	22.50	1.04		
Left		L	22.38	22.50	1.03		
Tilted	40DW	М	22.36	22.50	1.03	0.025	0.026
Tilled	10BW	Н	22.35	22.50	1.04		
Diabt	50%RB (head)	L	22.38	22.50	1.03		
Right cheek	(Heau)	М	22.36	22.50	1.03	0.043	0.044
CHEEK		Н	22.35	22.50	1.04		
Diabt		L	22.38	22.50	1.03		
Right Tilted		М	22.36	22.50	1.03	0.019	0.020
Tilleu		Н	22.35	22.50	1.04		
		L	22.38	22.50	1.03		
Back	10BW	M	22.36	22.50	1.03	0.095	0.098
	50%RB	Н	22.35	22.50	1.04		
	(body-	L	22.38	22.50	1.03		
Front	worn)	М	22.36	22.50	1.03	0.070	0.072
		Н	22.35	22.50	1.04		

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Mode: LTE Band 66

SAR Values (LTE BAND66)

Limit of SAR (W/kg): <1.6W/kg (1g Average)

Limit of SAR (W/kg)		: <1.6	ww/kg (1g Aver	age)			
Test Case		Ch	Measure Conducted Power	Tune-up limit	Scaling Factor	Measure Results (W/kg)	Reported Results (W/kg)
position	position		(dBm)	(dBm)	1 actor	1g Average	1g Average
Left		Г	23.21	23.50	1.07		
cheek		М	23.17	23.50	1.08	0.010	0.011
CHECK		Н	23.36	23.50	1.03		
Left		L	23.21	23.50	1.07		
Tilted	20BW	М	23.17	23.50	1.08	0.012	0.013
Tilled	1RB	Н	23.36	23.50	1.03		
Right	(head)	L	23.21	23.50	1.07		
cheek	(ricad)	М	23.17	23.50	1.08	0.014	0.015
CHCCK		Н	23.36	23.50	1.03		
Right		L	23.21	23.50	1.07		
Tilted		М	23.17	23.50	1.08	0.013	0.014
Tilled		Н	23.36	23.50	1.03		
		L	23.21	23.50	1.07		
Back	20BW	М	23.17	23.50	1.08	0.075	0.081
	1RB	Н	23.36	23.50	1.03		
	(body-	L	23.21	23.50	1.07		
Front	worn)	М	23.17	23.50	1.08	0.077	0.083
		Н	23.36	23.50	1.03		
		L	23.21	23.50	1.07		
Bottom		М	23.17	23.50	1.08	0.294	0.318
		Н	23.36	23.50	1.03		
	20BW	L	23.21	23.50	1.07		
Left	1RB	М	23.17	23.50	1.08	0.187	0.202
	(hotspot)	Н	23.36	23.50	1.03		
		L	23.21	23.50	1.07		
Right		М	23.17	23.50	1.08	0.157	0.170
_		Н	23.36	23.50	1.03		



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Left		L	22.48	23.00	1.13		
cheek		М	22.42	23.00	1.14	0.010	0.011
CHEEK		Н	22.57	23.00	1.10		
l off		L	22.48	23.00	1.13		
Left Tilted	20014	М	22.42	23.00	1.14	0.011	0.013
Tilleu	20BW	Н	22.57	23.00	1.10		
Diaht	50%RB	L	22.48	23.00	1.13		
Right cheek	(head)	М	22.42	23.00	1.14	0.013	0.015
CHEEK		Н	22.57	23.00	1.10		
Diaht		L	22.48	23.00	1.13		
Right Tilted		М	22.42	23.00	1.14	0.011	0.013
Tilleu		Н	22.57	23.00	1.10		
		L	22.48	23.00	1.13		
Back	20BW	М	22.42	23.00	1.14	0.069	0.079
	50%RB	Н	22.57	23.00	1.10		
	(body-	L	22.48	23.00	1.13		
Front	worn)	М	22.42	23.00	1.14	0.063	0.072
		Н	22.57	23.00	1.10		

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6.11 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The Highest Reported SAR configuration in Each Frequency Band

Frequency band	Air interface	Head(w/kg)	Body(w/kg)
750 MHz	LTE BAND12	<0.8	<0.8
835 MHz	GSM850 WCDMA BAND5 LTE BAND5	<0.8	<0.8
1800/2000 MHz	GSM1900 WCDMA BAND2 WCDMA BAND4 LTE BAND2 LTE BAND4 LTE BAND66	>0.8	>0.8
2.4 GHz	BT/BLE WIFI 2.4G LTE BAND7	<0.8	<0.8
5 GHz	WIFI UNII-1 WIFI UNII-2A WIFI UNII-2C WIFI UNII-3	<0.8	<0.8



6.12 Simultaneous Transmission SAR Analysis

Up Antenna

The sum of SAR values for GSM & Wi-Fi 2.4G/ Wi-Fi 5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY WORN	MAXIMUM SAR VALUE FOR HOTSPOT	
GSM	0.693	0.792	0.198	
Wi-Fi	0.405	0.038	0.032	
Sum	1.098	0.830	0.230	
Note	Left tilt: GSM850+WIFI5G	Back: GSM1900+WIFI5G	Top: GSM1900+WIFI2.4G	

According to the above tables, the sum of SAR values for GSM and Wi-Fi < 1.6W/kg. So simultaneous transmission SAR are not required for Wi-Fi transmitter.

The sum of SAR values for WCDMA & Wi-Fi 2.4G/ Wi-Fi 5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY	MAXIMUM SAR VALUE FOR HOTSPOT
WCDMA	1.182	0.732	0.337
Wi-Fi	0.299	0.038	0.032
Sum	1.481	0.770	0.369
Note	Right tilt:	Back:	Back:
	WCDMA4+WIFI5G	WCDMA2+ WIFI 5G	WCDMA4+ WIFI 2.4G

According to the above tables, the sum of SAR values for WCDMA and Wi-Fi < 1.6W/kg. So simultaneous transmission SAR are not required for Wi-Fi transmitter.5

The sum of SAR values for LTE& Wi-Fi 2.4G/ Wi-Fi 5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY	MAXIMUM SAR VALUE FOR HOTSPOT
LTE	1.009	1.112	1.142
Wi-Fi	0.405	0.038	0.032
Sum	1.414	1.150	1.174
Note	Left Tilt:	Back:	Top:
	LTE4 +WIFI 5G	LTE7 +WIFI 5G	LTE2 +WIFI 2.4G

According to the above tables, the sum of SAR values for LTE and Wi-Fi < 1.6W/kg. So simultaneous transmission SAR are not required for Wi-Fi transmitter.

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The sum of SAR values for GSM & Bluetooth & Wi-Fi5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY WORN
GSM	0.693	0.792
Bluetooth	0.006	0.004
Wi-Fi 5G	0.405	0.038
Sum	1.104	0.834
Note	Left tilt: GSM850+BT+ Wi-Fi5G	Back: GSM1900+BT+ Wi-Fi5G

According to the above tables, the sum of SAR values for GSM, Bluetooth and Wi-Fi 5G < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

The sum of SAR values for WCDMA & Bluetooth & Wi-Fi5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY WORN
WCDMA	1.182	0.732
Bluetooth	0.003	0.004
Wi-Fi 5G	0.299	0.038
Sum	1.484	0.774
Note	Right Tilt: WCDMA4+BT+ Wi-Fi5G	Back: WCDMA2+BT+ Wi-Fi5G

According to the above tables, the sum of SAR values for WCDMA, Bluetooth and Wi-Fi 5G < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

The sum of SAR values for LTE& Bluetooth & Wi-Fi5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY
LTE	1.009	1.112
Bluetooth	0.006	0.004
Wi-Fi 5G	0.405	0.038
Sum	1.419	1.154
Note	Left tilt: LTE4+BT+ Wi-Fi5G	Back: LTE7 +BT+ Wi-Fi5G

According to the above tables, the sum of SAR values for LTE, Bluetooth and Wi-Fi 5G < 1.6W/kg. So simultaneous transmission SAR are not required for Wi-Fi transmitter.

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Down Antenna

The sum of SAR values for GSM & Wi-Fi 2.4G/ Wi-Fi 5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY WORN	MAXIMUM SAR VALUE FOR HOTSPOT
GSM	0.243	0.555	0.876
Wi-Fi	0.364	0.038	NA
Sum	0.607	0.593	0.876
Note	Left cheek: GSM850+WIFI5G	Back: GSM1900+WIFI5G	Bottom GSM1900

According to the above tables, the sum of SAR values for GSM and Wi-Fi < 1.6W/kg. So simultaneous transmission SAR are not required for Wi-Fi transmitter.

The sum of SAR values for WCDMA & Wi-Fi 2.4G/ Wi-Fi 5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY	MAXIMUM SAR VALUE FOR HOTSPOT
WCDMA	0.138	0.689	0.960
Wi-Fi	0.364	0.038	NA
Sum	0.502	0.727	0.960
Note	Left cheek:	Back:	Bottom
	WCDMA2 +WIFI5G	WCDMA2+ WIFI5G	WCDMA2

According to the above tables, the sum of SAR values for WCDMA and Wi-Fi < 1.6W/kg. So simultaneous transmission SAR are not required for Wi-Fi transmitter.

The sum of SAR values for LTE & Wi-Fi 2.4G/ Wi-Fi 5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY	MAXIMUM SAR VALUE FOR HOTSPOT
LTE	0.276	0.444	0.791
Wi-Fi	0.299	0.049	NA
Sum	0.575	0.493	0.791
Note	Right tilt:	Front:	Bottom
	LTE12 +WIFI5G	LTE2 +WIFI5G	LTE2

According to the above tables, the sum of SAR values for LTE and Wi-Fi < 1.6W/kg. So simultaneous transmission SAR are not required for Wi-Fi transmitter.

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The sum of SAR values for GSM & Bluetooth & Wi-Fi5G

	MAXIMUM SAR VALUE FOR	MAXIMUM SAR VALUE FOR BODY
	HEAD	WORN
GSM	0.243	0.555
Bluetooth	0.004	0.004
Wi-Fi 5G	0.364	0.038
Sum	0.610	0.597
Note	Left cheek: GSM850+BT+ Wi-Fi 5G	Back: GSM1900+BT+ Wi-Fi 5G

According to the above tables, the sum of SAR values for GSM and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

The sum of SAR values for WCDMA & Bluetooth & Wi-Fi5G

	MAXIMUM SAR VALUE FOR HEAD	MAXIMUM SAR VALUE FOR BODY WORN
WCDMA	0.138	0.686
Bluetooth	0.004	0.004
Wi-Fi 5G	0.364	0.038
Sum	0.506	0.728
Note	Left cheek: WCDMA5+BT+ Wi-Fi 5G	Back: WCDMA2+BT+ Wi-Fi 5G

According to the above tables, the sum of SAR values for WCDMA and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

The sum of SAR values for LTE& Bluetooth & Wi-Fi5G

	MAXIMUM SAR VALUE FOR HEAD	E FOR MAXIMUM SAR VALUE FOR BOD	
LTE 0.276		0.444	
Bluetooth	0.003	0.003	
Wi-Fi 5G	0.283	0.049	
Sum 0.572		0.496	
Note	Right tilt: LTE2+BT+ Wi-Fi 5G	Front: LTE2+BT+ Wi-Fi 5G	

According to the above tables, the sum of SAR values for LTE and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

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7 MEASUREMENT UNCERTAINTY

$(0.3 - 3\mathrm{GHz}\mathrm{range})$								
	Uncert.	Prob.	Div.	(c_i)	(c_i)	Std. Unc.	Std. Unc.	(v_i)
Error Description	value	Dist.		1g	10g	(1g)	(10g)	v_{eff}
Measurement System								
Probe Calibration	$\pm 6.0 \%$	N	1	1	1	$\pm 6.0 \%$	$\pm 6.0 \%$	∞
Axial Isotropy	$\pm 4.7 \%$	R	$\sqrt{3}$	0.7	0.7	$\pm 1.9 \%$	$\pm 1.9 \%$	∞
Hemispherical Isotropy	$\pm 9.6 \%$	R	$\sqrt{3}$	0.7	0.7	$\pm 3.9 \%$	$\pm 3.9 \%$	∞
Boundary Effects	$\pm 1.0 \%$	R	$\sqrt{3}$	1	1	$\pm 0.6 \%$	$\pm 0.6 \%$	∞
Linearity	$\pm 4.7 \%$	R	$\sqrt{3}$	1	1	$\pm 2.7 \%$	$\pm 2.7 \%$	∞
System Detection Limits	$\pm 1.0 \%$	R	$\sqrt{3}$	1	1	$\pm 0.6 \%$	$\pm 0.6 \%$	∞
Modulation Response ^m	$\pm 2.4 \%$	R	$\sqrt{3}$	1	1	$\pm 1.4 \%$	$\pm 1.4 \%$	∞
Readout Electronics	$\pm 0.3 \%$	N	1	1	1	$\pm 0.3 \%$	$\pm 0.3 \%$	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	$\pm 0.5 \%$	$\pm 0.5 \%$	∞
Integration Time	$\pm 2.6 \%$	R	$\sqrt{3}$	1	1	$\pm 1.5 \%$	$\pm 1.5 \%$	∞
RF Ambient Noise	$\pm 3.0 \%$	R	$\sqrt{3}$	1	1	$\pm 1.7 \%$	$\pm 1.7 \%$	∞
RF Ambient Reflections	$\pm 3.0 \%$	R	$\sqrt{3}$	1	1	$\pm 1.7 \%$	$\pm 1.7 \%$	∞
Probe Positioner	$\pm 0.4 \%$	R	$\sqrt{3}$	1	1	$\pm 0.2 \%$	$\pm 0.2 \%$	∞
Probe Positioning	$\pm 2.9 \%$	R	$\sqrt{3}$	1	1	$\pm 1.7 \%$	$\pm 1.7 \%$	∞
Max. SAR Eval.	$\pm 2.0 \%$	R	$\sqrt{3}$	1	1	$\pm 1.2 \%$	$\pm 1.2 \%$	∞
Test Sample Related								
Device Positioning	$\pm 2.9 \%$	N	1	1	1	$\pm 2.9\%$	$\pm 2.9 \%$	145
Device Holder	$\pm 3.6 \%$	N	1	1	1	$\pm 3.6\%$	$\pm 3.6\%$	5
Power Drift	$\pm 5.0 \%$	R	$\sqrt{3}$	1	1	$\pm 2.9 \%$	$\pm 2.9 \%$	∞
Power Scaling ^p	±0 %	R	$\sqrt{3}$	1	1	$\pm 0.0 \%$	$\pm 0.0 \%$	∞
Phantom and Setup								
Phantom Uncertainty	$\pm 6.1 \%$	R	$\sqrt{3}$	1	1	$\pm 3.5 \%$	$\pm 3.5 \%$	∞
SAR correction	$\pm 1.9 \%$	R	$\sqrt{3}$	1	0.84	$\pm 1.1\%$	$\pm 0.9 \%$	∞
Liquid Conductivity (mea.) ^{DAK}	$\pm 2.5 \%$	R	$\sqrt{3}$	0.78	0.71	$\pm 1.1 \%$	$\pm 1.0 \%$	∞
Liquid Permittivity (mea.) DAK	$\pm 2.5 \%$	R	$\sqrt{3}$	0.26	0.26	$\pm 0.3\%$	$\pm 0.4 \%$	∞
Temp. unc Conductivity BB $\pm 3.4\%$		R	$\sqrt{3}$	0.78	0.71	$\pm 1.5\%$	$\pm 1.4 \%$	∞
Temp. unc Permittivity ^{BB}	±0.4 %	R	$\sqrt{3}$	0.23	0.26	$\pm 0.1 \%$	$\pm 0.1 \%$	∞
Combined Std. Uncertainty						$\pm 11.2 \%$	±11.1%	361
Expanded STD Uncertainty						$\pm 22.3\%$	$\pm 22.2\%$	

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(3 - 6 GHz range) Uncert. Prob. Div. (c_i) (c_i) Std. Unc. Std. Unc. (v_i) Error Description Dist. value 1g10g(1g) (10g) v_{eff} Measurement System Probe Calibration $\pm 6.55 \%$ $\pm 6.55 \%$ $\pm 6.55 \%$ Ν ∞ Axial Isotropy $\pm 4.7 \%$ R $\sqrt{3}$ 0.7 0.7 $\pm 1.9 \%$ $\pm 1.9 \%$ ∞ Hemispherical Isotropy $\pm 9.6 \%$ R $\sqrt{3}$ 0.7 0.7 $\pm 3.9 \%$ $\pm 3.9 \%$ ∞ Boundary Effects $\pm 2.0 \%$ R $\sqrt{3}$ $\pm 1.2 \%$ $\pm 1.2 \%$ 1 1 ∞ Linearity $\pm 4.7\,\%$ R $\sqrt{3}$ 1 1 $\pm 2.7 \%$ $\pm 2.7 \%$ ∞ $\sqrt{3}$ System Detection Limits $\pm 0.6 \%$ $\pm 0.6 \%$ $\pm 1.0 \%$ R 1 1 ∞ Modulation Response^m $\pm 2.4 \%$ R $\sqrt{3}$ 1 $\pm 1.4 \%$ $\pm 1.4 \%$ 1 ∞ Readout Electronics $\pm 0.3 \%$ Ν $\pm 0.3 \%$ $\pm 0.3 \%$ 1 1 1 ∞ Response Time R $\pm 0.5 \%$ $\pm 0.8 \%$ $\sqrt{3}$ $\pm 0.5 \%$ 1 1 ∞ Integration Time $\pm 2.6\,\%$ R $\sqrt{3}$ $\pm 1.5 \%$ $\pm 1.5 \%$ 1 1 ∞ RF Ambient Noise $\sqrt{3}$ $\pm 3.0 \%$ \mathbf{R} 1 1 $\pm 1.7 \%$ $\pm 1.7\%$ ∞ RF Ambient Reflections $\pm 3.0 \%$ R $\sqrt{3}$ $\pm 1.7 \%$ $\pm 1.7\%$ 1 1 ∞ Probe Positioner $\pm 0.8 \%$ R $\sqrt{3}$ 1 $\pm 0.5 \%$ $\pm 0.5 \%$ 1 ∞ $\sqrt{3}$ Probe Positioning $\pm 6.7 \%$ R 1 1 $\pm 3.9 \%$ $\pm 3.9 \%$ ∞ Max. SAR Eval. $\pm 4.0 \%$ R $\sqrt{3}$ 1 $\pm 2.3 \%$ $\pm 2.3 \%$ 1 ∞ Test Sample Related 145Device Positioning $\pm 2.9 \%$ Ν $\pm 2.9 \%$ $\pm 2.9 \%$ 1 1 1 Device Holder $\pm 3.6 \%$ Ν 1 1 1 $\pm 3.6 \%$ $\pm 3.6 \%$ 5 Power Drift $\pm 5.0 \%$ R $\sqrt{3}$ $\pm 2.9 \%$ $\pm 2.9 \%$ 1 1 ∞ Power Scaling^p ±0 % R $\sqrt{3}$ 1 1 $\pm 0.0 \%$ $\pm 0.0 \%$ ∞ Phantom and Setup Phantom Uncertainty $\pm 6.6 \%$ R $\sqrt{3}$ 1 1 $\pm 3.8 \%$ $\pm 3.8\%$ ∞ SAR correction $\pm 1.9\,\%$ R $\sqrt{3}$ $\pm 1.1 \%$ $\pm 0.9 \%$ 1 0.84 ∞ Liquid Conductivity (mea.) DAK $\pm 2.5 \,\%$ R $\sqrt{3}$ 0.78 0.71 $\pm 1.1 \%$ $\pm 1.0 \%$ ∞ Liquid Permittivity (mea.) DAK $\pm 2.5\,\%$ R $\sqrt{3}$ 0.26 0.26 $\pm 0.3 \%$ $\pm 0.4\%$ ∞ Temp. unc. - Conductivity ^{BB} R $\pm 3.4 \%$ $\sqrt{3}$ 0.780.71 $\pm 1.5 \%$ $\pm 1.4 \%$ ∞ Temp. unc. - Permittivity BB $\sqrt{3}$ $\pm 0.4\,\%$ R 0.230.26 $\pm 0.1 \%$ $\pm 0.1\%$ ∞ Combined Std. Uncertainty $\pm 12.3 \%$ $\pm 12.2 \%$ 748 Expanded STD Uncertainty $\pm 24.6 \%$ $\pm 24.5 \%$

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8 TEST EQUIPMENTS

The measurements were performed using an automated near-field scanning system, DASY5, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Model	Serial Number	Calibration	Calibration
root Equipment	mode.	30110111001	date	Due data
DAE	DAE4	720	2018.10.15	2019.10.14
Dosimetric E-field Probe	EX4DV3	3708	2018.10.22	2019.10.21
Dipole Validation Kit	D750V3	1101	2017.09.13	2020.09.12
Dipole Validation Kit	D835V2	4d023	2017.09.13	2020.09.12
Dipole Validation Kit	D1800V2	2d084	2017.09.15	2020.09.14
Dipole Validation Kit	D2000V2	1009	2018.02.01	2021.01.31
Dipole Validation Kit	D2450V2	738	2017.09.18	2020.09.17
Dipole Validation Kit	D5GHzV2	1079	2017.09.25	2020.09.24

Additional test equipment used in testing:

Toot Equipment	Model	Serial	Calibration	Calibration
Test Equipment	Model	Number	date	Due data
Signal Generator	E4428C	MY45280865	2018.08.20	2019.08.19
Signal Generator	SML 03	103514	2018.08.20	2019.08.19
Power meter	E4417A	MY45101182	2018.08.20	2019.08.19
Power Sensor	E4412A	MY41502214	2018.08.20	2019.08.19
Power Sensor	E4412A	MY41502130	2018.08.20	2019.08.19
Power meter	E4417A	MY45101004	2018.08.20	2019.08.19
Power Sensor	E9300B	MY41496001	2018.08.20	2019.08.19
Power Sensor	E9300B	MY41496003	2018.08.20	2019.08.19
Communication Tester	E5515C	MY48367401	2018.08.20	2019.08.19
Communication Tester	CMU200	114666	2018.08.20	2019.08.19
Communication Tester	MT8820C	6201300660	2018.08.20	2019.08.19
Communication Tester	MT8821C	6201547819	2018.08.20	2019.08.19
Vector Network Analyzer	E5072A	MY51100334	2018.03.01	2019.02.28
Vector Network Analyzer	VNA R140	0011213	2018.10.17	2019.10.16
Dielectric Parameter Probe	DAKS-3.5	1042	2018.10.17	2019.10.16



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Detailed information of Isotropic E-field Probe Type ES3DV3

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)		
Calibration	Calibration certificate in Appendix C		
Frequency	10 MHz to 4 GHz;		
	Linearity: ± 0.2 dB (30 MHz to 4 GHz)		
Optical Surface	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting		
Detection	surfaces		
Dimensions	Overall length: 337 mm (Tip: 20 mm)		
	Tip diameter: 3.9 mm (Body: 12 mm)		
	Distance from probe tip to dipole centers: 2.0 mm		
Dynamic Range	5 μW/g to > 100 W/kg; Linearity: ± 0.2 dB		
Application	General dosimetry up to 4 GHz		
	Dosimetry in strong gradient fields		
	Compliance tests of mobile phones		

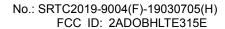
Detailed information of Isotropic E-field Probe Type EX3DV4

Dotalica illioittiation	of isotropic L-field Flobe Type LASDV4
Construction	Symmetrical design with triangular core Built-in shielding against static
	charges PEEK enclosure material (resistant to organic solvents, e.g.,
	DGBE)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to > 6 GHz
	Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Optical Surface	± 0.3 mm repeatability in air and clear liquids over diffuse reflecting
Detection	surfaces
Dimensions	Overall length: 337 mm (Tip: 20 mm)
	Tip diameter: 2.5 mm (Body: 12 mm)
	Typical distance from probe tip to dipole centers: 1 mm
Dynamic Range	10 μW/g to > 100 W/kg
	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Application	High precision dosimetric measurements in any exposure scenario
	(e.g., very strong gradient fields); the only probe that enables
	compliance testing for frequencies up to 6 GHz with precision of better
	30%.

According to KDB 865664 D01 section 3.2.2, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the **SAR target**, **impedance** and **return loss** of a dipole have remain stable according to the following requirements.

- 1) The test laboratory must ensure that the required supporting information and documentation are included in the SAR report to qualify for the three-year extended calibration interval; otherwise, the IEEE Std 1528-2013 recommended annual calibration applies.
- 2) Immediate re-calibration is required for the following conditions.
- a) After a dipole is damaged and properly repaired to meet required specifications.
- b) When the measured SAR deviates from the calibrated SAR value by more than 10% due to changes in physical, mechanical, electrical or other relevant dipole conditions; i.e., the error is not introduced by incorrect measurement procedures or other issues relating to the SAR measurement system.
- c) When the most recent return-loss result, measured at least annually, deviates by more than 20% from the previous measurement (i.e. value in dB×0.2) or not meeting the required 20 dB minimum return-loss requirement.
- d) When the most recent measurement of the real or imaginary parts of the impedance, measured at least annually, deviates by more than 5 Ω from the previous measurement.

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Dipole 750

SAR target

Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

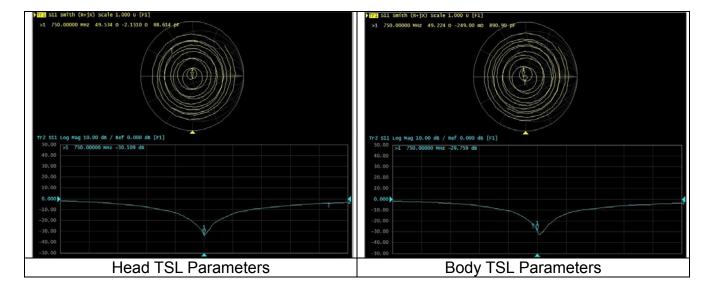
Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance (measured on 2018.8.20), deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

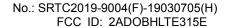
The most recent return-loss result (measured on 2018.8.20) deviates within 20% from the previous measurement. (Data from the last calibration report)

Head TSL Parameters					
Parameters	Target (Ref. Value)	Measured data	Deviation		
Impedance	53.9Ω+0.24jΩ	49.5Ω-2.15jΩ	<5Ω		
Return loss	-28.4dB	-29.8dB	<20%		

Body TSL Parameters					
Parameters	Target (Ref. Value)	Measured data	Deviation		
Impedance	52.0Ω-2.22jΩ	49.2Ω-0.25jΩ	<5Ω		
Return loss	-30.6dB	-30.1dB	<20%		



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Dipole 835

SAR target

Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

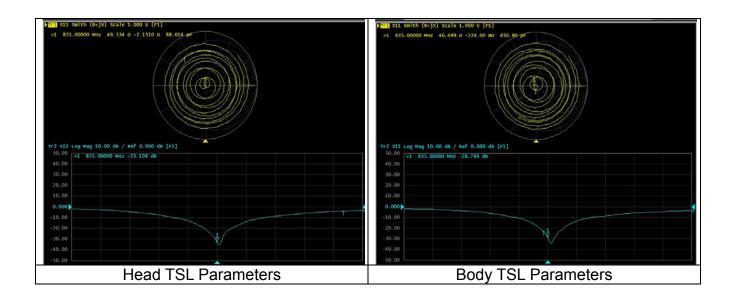
Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance (measured on 2018.8.20), deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

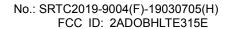
The most recent return-loss result (measured on 2018.8.20) deviates within 20% from the previous measurement. (Data from the last calibration report)

Head TSL Parameters						
Param	eters	Target (Ref. Value)	Measured data	Deviation		
Impeda	ance	51.0Ω-2.79jΩ	49.5Ω-2.15jΩ	<5Ω		
Return	loss	-30.7 dB	-33.1 dB	<20%		

Body TSL Parameters					
Parameters	Target (Ref. Value)	Measured data	Deviation		
Impedance	46.6Ω-3.61jΩ	49.5Ω-0.22jΩ	<5Ω		
Return loss	-25.8dB	-28.8dB	<20%		



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Dipole1800

SAR target

Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

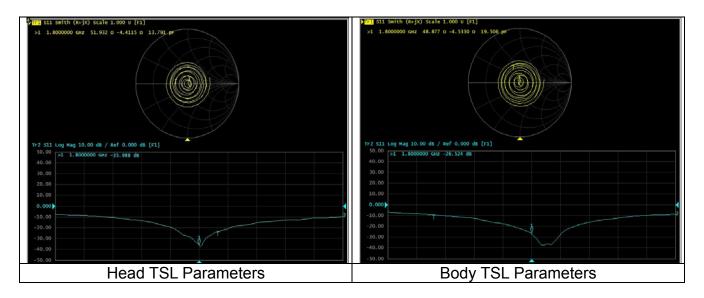
Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance (measured on 2018.8.20), deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

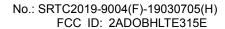
The most recent return-loss result (measured on 2018.8.20) deviates within 20% from the previous measurement. (Data from the last calibration report)

Ī	Head TSL Parameters						
	Parameters	Target (Ref. Value)	Measured data	Deviation			
ſ	Impedance	49.3Ω-1.55jΩ	51.9Ω-4.41jΩ	<5Ω			
	Return loss	-35.4 dB	-36.0dB	<20%			

		Body TSL Parameters	
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	46.0Ω-1.32jΩ	48.9Ω-4.53jΩ	<5Ω
Return loss	-27.1dB	-26.5dB	<20%



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Dipole2000

SAR target

Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

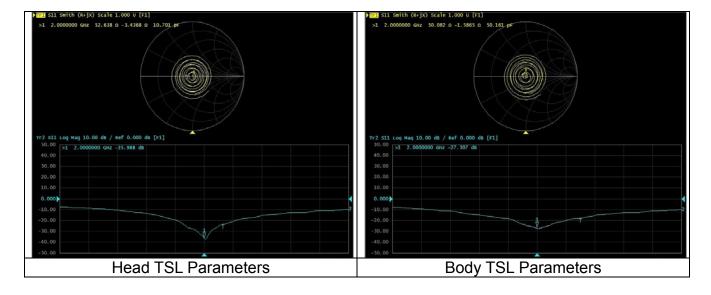
Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance (measured on 2018.8.20), deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

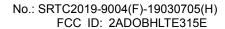
The most recent return-loss result (measured on 2018.8.20) deviates within 20% from the previous measurement. (Data from the last calibration report)

		Head TSL Parameters	
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	49.8Ω-2.08jΩ	52.6Ω-3.44jΩ	<5Ω
Return loss	-33.6dB	-36.0dB	<20%

		Body TSL Parameters	
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	46.3Ω-1.63jΩ	50.1Ω-1.59jΩ	<5Ω
Return loss	-27.6dB	-27.3dB	<20%



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Dipole2450

SAR target

Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

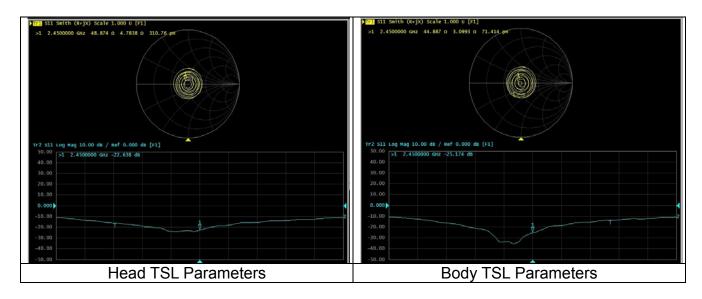
Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance (measured on 2018.8.20), deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result (measured on 2018.8.20) deviates within 20% from the previous measurement. (Data from the last calibration report)

ſ			Head TSL Parameters	
ſ	Parameters	Target (Ref. Value)	Measured data	Deviation
Ī	Impedance	51.3Ω+5.92jΩ	48.9Ω+4.78jΩ	<5Ω
ſ	Return loss	-24.5 dB	-22.6dB	<20%

		Body TSL Parameters	
Parameters	Target (Ref. Value)	Measured data	Deviation
Impedance	47.6Ω+6.39jΩ	44.9Ω+3.10jΩ	<5Ω
Return loss	-23.1dB	-25.2dB	<20%



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Dipole5GHz

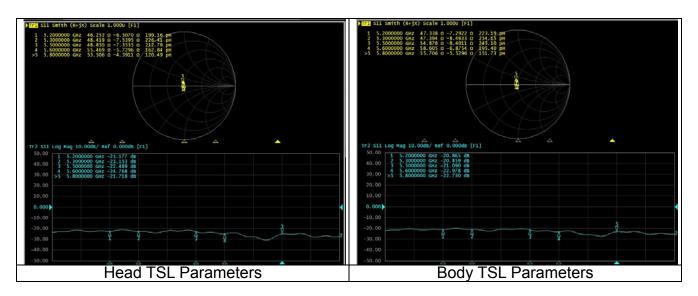
SAR target
Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer The most recent measurement of the real or imaginary parts of the impedance (measured on 2018.8,20), deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result (measured on 2018.8.20) deviates within 20% from the previous measurement. (Data from the last calibration report)

Head TSL Parameters				
Parameters	Target (Ref. Value)	Measured data	Deviation	Frequency (MHz)
Impedance	47.6Ω-8.77jΩ	46.3Ω-6.51jΩ	<5Ω	5200
Return loss	-20.7dB	-20.9dB	<20%	5200
Impedance	45.5Ω-6.82jΩ	48.4Ω-7.54jΩ	<5Ω	5300
Return loss	-21.4dB	-20.9dB	<20%	5300
Impedance	50.7Ω-7.14jΩ	48.9Ω-7.35jΩ	<5Ω	5500
Return loss	-23.0dB	-20.9dB	<20%	5500
Impedance	55.2Ω-4.00jΩ	55.5Ω-5.73jΩ	<5Ω	5600
Return loss	-24.1dB	-20.9dB	<20%	5600
Impedance	52.2Ω-8.20jΩ	53.5Ω-4.39jΩ	<5Ω	5800
Return loss	-21.6dB	-20.9dB	<20%	5800

Body TSL Parameters				
Parameters	Target (Ref. Value)	Measured data	Deviation	Frequency (MHz)
Impedance	50.8Ω-10.10jΩ	47.3Ω-7.29jΩ	<5Ω	5200
Return loss	-20.0dB	-20.9dB	<20%	5200
Impedance	48.5Ω-8.56jΩ	47.4Ω-8.46jΩ	<5Ω	5300
Return loss	-21.1dB	-20.9dB	<20%	5300
Impedance	54.9Ω-6.85jΩ	54.9Ω-8.40jΩ	<5Ω	5500
Return loss	-21.9dB	-21.1dB	<20%	5500
Impedance	56.6Ω-2.29jΩ	58.6Ω-6.88jΩ	<5Ω	5600
Return loss	-23.7dB	-23.0dB	<20%	5600
Impedance	56.7Ω-8.10jΩ	55.7Ω-5.53jΩ	<5Ω	5800
Return loss	-20.2dB	-22.7dB	<20%	5800



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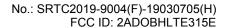
ANNEX A – TEST PLOTS

Please refer to the attachment.

ANNEX B - RELEVANT PAGES FROM CALIBRATION REPORTS

Please refer to the attachment.

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ANNEX A – TEST PLOTS

Head liquid

System check 750MHz

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz);

Frequency: 750 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 750 MHz; σ = 0.917 S/m; ε_r = 42.068; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018,
 ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 System Performance Check at Frequencies 750MHz/d=15mm, Pin=250 mW,
 dist=3.0mm (ES-Probe)/Area Scan (8x15x1): Measurement grid: dx=15mm,
 dy=15mm

Maximum value of SAR (measured) = 2.16 W/kg

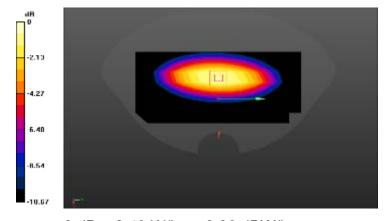
System Performance Check at Frequencies 750MHz/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

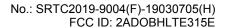
Reference Value = 41.00 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.37 W/kg Maximum value of SAR (measured) = 2.49 W/kg



0 dB = 2.49 W/kg = 3.96 dBW/kg





System check

750MHz

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz);

Frequency: 750 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 750 MHz; σ = 0.922 S/m; ε_r = 42.153; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018,
 ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 System Performance Check at Frequencies 750MHz/d=15mm, Pin=250 mW,
 dist=3.0mm (ES-Probe)/Area Scan (8x15x1): Measurement grid: dx=15mm,
 dy=15mm

Maximum value of SAR (measured) = 2.27 W/kg

System Performance Check at Frequencies 750MHz/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

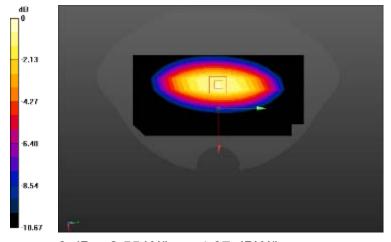
dx=5mm, dy=5mm, dz=5mm

Reference Value = 44.32 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 4.11 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.43 W/kg

Maximum value of SAR (measured) = 2.55 W/kg



0 dB = 2.55 W/kg = 4.07 dBW/kg

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System check	835MHz
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Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used (interpolated): f = 835 MHz; σ = 0.912 S/m; ϵ_r = 42.529; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 835/835/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.75 W/kg

Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

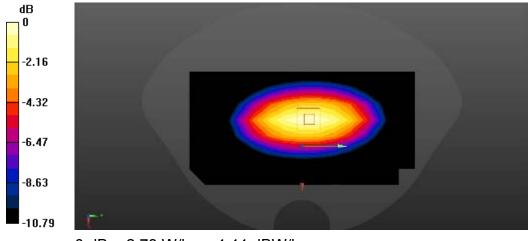
dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.68 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 2.78 W/kg



0 dB = 2.78 W/kg = 4.44 dBW/kg

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System check

835MHz

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used (interpolated): f = 835 MHz; σ = 0.908 S/m; ϵ_r = 40.217; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018,
 ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 835/835/Area Scan (8x15x1): Measurement grid: dx=15mm,
 dy=15mm

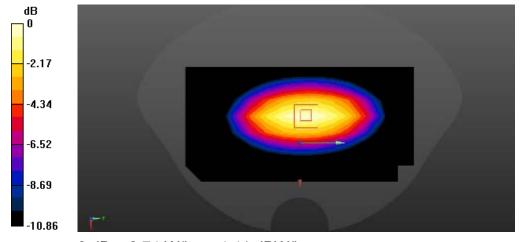
Maximum value of SAR (measured) = 2.72 W/kg

Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.67 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.52 W/kg Maximum value of SAR (measured) = 2.74 W/kg



0 dB = 2.74 W/kg = 4.41 dBW/kg

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System check 835MHz

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used (interpolated): f = 835 MHz; σ = 0.915 S/m; ϵ_r = 41.114; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 835/835/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.87 W/kg

Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

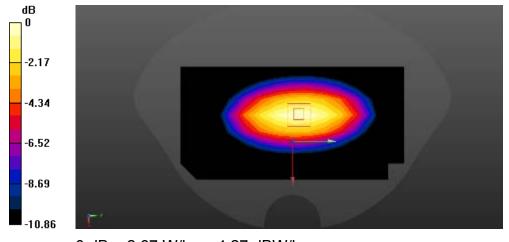
dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.13 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.66 W/kg

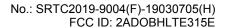
SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 2.67 W/kg



0 dB = 2.67 W/kg = 4.27 dBW/kg

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System check

1800MHz

Communication System: UID 0, CW (0); Frequency: 1800 MHz

Medium parameters used: f = 1800 MHz; σ = 1.409 S/m; ε_r = 38.905; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 1800/1800/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 8.57 W/kg

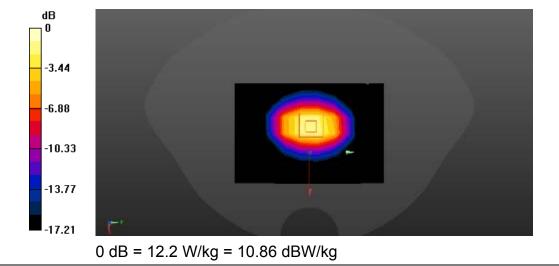
Configuration 1800/1800/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.04 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.57 W/kg; SAR(10 g) = 5.02 W/kg

Maximum value of SAR (measured) = 12.2 W/kg



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System check

1800MHz

Communication System: UID 0, CW (0); Frequency: 1800 MHz

Medium parameters used: f = 1800 MHz; σ = 1.411 S/m; ε_r = 40.607; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437) Configuration 1800/1800/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 8.31 W/kg

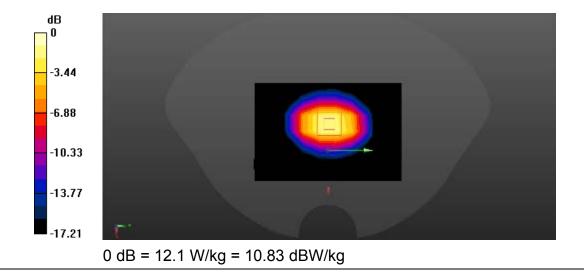
Configuration 1800/1800/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 76.60 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.46 W/kg; SAR(10 g) = 4.96 W/kg

Maximum value of SAR (measured) = 12.1 W/kg



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2000MHz

Communication System: UID 0, CW (0); Frequency: 2000 MHz

Medium parameters used: f = 2000 MHz; $\sigma = 1.435 \text{ S/m}$; $\varepsilon_r = 39.815$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 2000/2000/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm

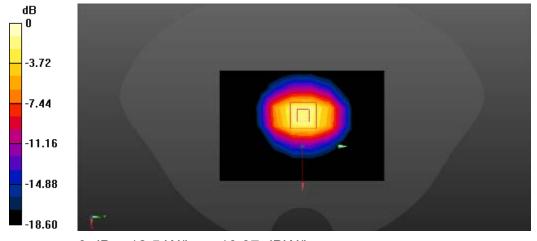
Maximum value of SAR (measured) = 8.40 W/kg

Configuration 2000/2000/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 76.73 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 9.65 W/kg; SAR(10 g) = 4.86 W/kg Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

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2000MHz



System check

Communication System: UID 0, CW (0); Frequency: 2000 MHz

Medium parameters used: f = 2000 MHz; $\sigma = 1.384 \text{ S/m}$; $\varepsilon_r = 40.245$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437) Configuration 2000/2000/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 8.96 W/kg

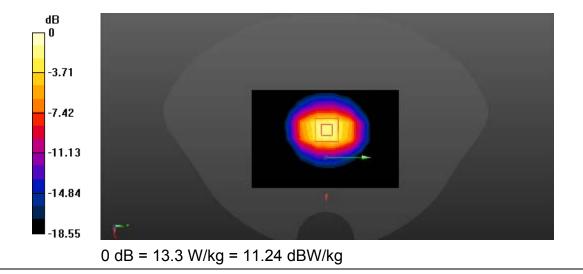
Configuration 2000/2000/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 74.32 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 19.9 W/kg

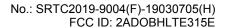
SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.21 W/kg

Maximum value of SAR (measured) = 13.3 W/kg



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2450MHz

Communication System: UID 0, CW (0); Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.873 \text{ S/m}$; $\varepsilon_r = 38.145$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)

System Performance Check at Frequencies 2450 MHz/2450/Area Scan (8x11x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 21.2 W/kg

System Performance Check at Frequencies 2450 MHz/2450/Zoom Scan (7x7x7)

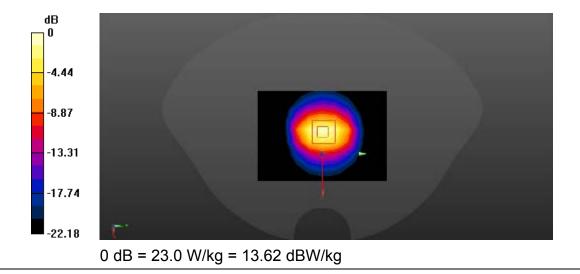
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 109.3 V/m; Power Drift = 0.14 dB

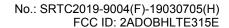
Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.34 W/kg

Maximum value of SAR (measured) = 23.0 W/kg



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2450MHz

Communication System: UID 0, CW (0); Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.881 \text{ S/m}$; $\epsilon_r = 39.517$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)

System Performance Check at Frequencies 2450 MHz/2450/Area Scan (8x11x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 21.8 W/kg

System Performance Check at Frequencies 2450 MHz/2450/Zoom Scan (7x7x7)

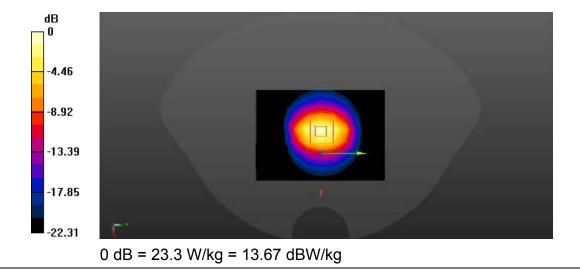
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 108.8 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 28.8 W/kg

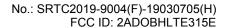
SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.33 W/kg

Maximum value of SAR (measured) = 23.3 W/kg



V1.0.0

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2450MHz

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0

MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 2450 MHz; $\sigma = 1.833 \text{ S/m}$; $\epsilon_r = 39.583$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 21.87 W/kg

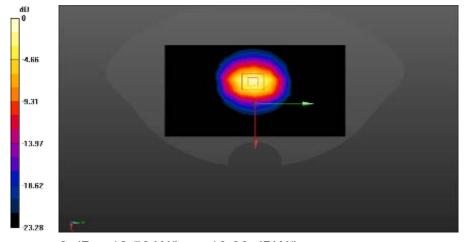
System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.95 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 27.9 W/kg

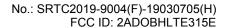
SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.96 W/kg

Maximum value of SAR (measured) = 12.56 W/kg



0 dB = 12.56 W/kg = 10.99 dBW/kg

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5300MHz

Communication System: UID 0, CW (0); Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; σ = 4.683 S/m; ε_r = 36.853; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration/5300/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.55 W/kg

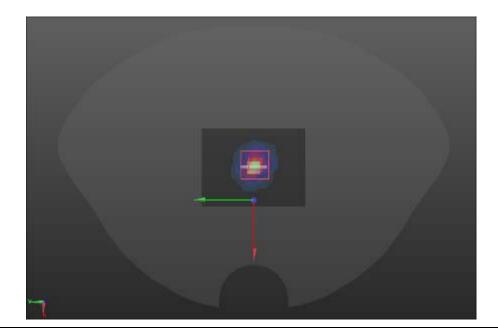
Configuration/5300/Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 19.30 V/m; Power Drift = 0.18 dB

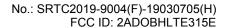
Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.234 W/kg

Maximum value of SAR (measured) = 1.97 W/kg



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5600MHz

Communication System: UID 0, CW (0); Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; σ = 4.992 S/m; ε_r = 36.847; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018, ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration/5600/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.62 W/kg

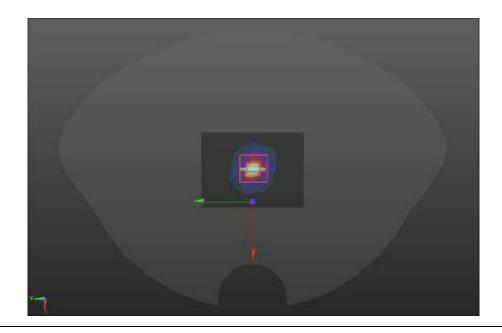
Configuration/5600/Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 19.42 V/m; Power Drift = 0.04 dB

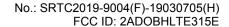
Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.245 W/kg

Maximum value of SAR (measured) = 1.87 W/kg



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5800MHz

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used: f = 5800 MHz; σ = 5.185 S/m; ε_r = 36.334; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018,
 ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration/5800/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.97 W/kg

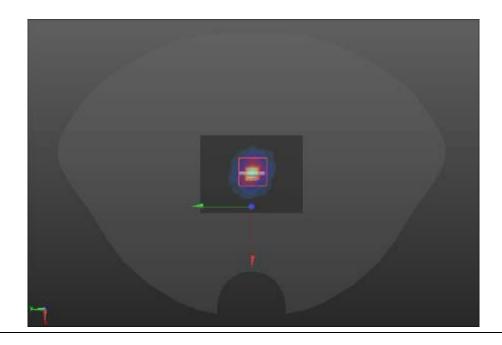
Configuration/5800/Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 13.10 V/m; Power Drift = 0.02 dB

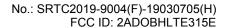
Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 0.775 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 2.01 W/kg



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Body liquid

System check	750MHz
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Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz);

Frequency: 750 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 750 MHz; $\sigma = 0.976 \text{ S/m}$; $\varepsilon_r = 53.279$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

 Probe: EX3DV4 - SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018, ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 System Performance Check at Frequencies 750MHz/d=15mm, Pin=250 mW,
 dist=3.0mm (ES-Probe)/Area Scan (8x15x1): Measurement grid: dx=15mm,
 dy=15mm

Maximum value of SAR (measured) = 2.31 W/kg

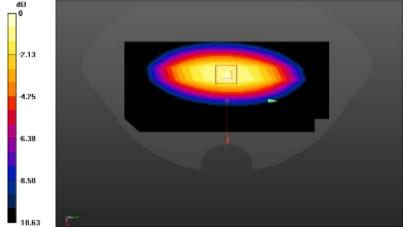
System Performance Check at Frequencies 750MHz/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 41.26 V/m; Power Drift = 0.13 dB

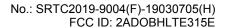
Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.47 W/kg Maximum value of SAR (measured) = 2.66 W/kg



0 dB = 2.66 W/kg = 4.25 dBW/kg

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750MHz

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz);

Frequency: 750 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 750 MHz; σ = 0.954 S/m; ε_r = 54.321; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018, ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 System Performance Check at Frequencies 750MHz/d=15mm, Pin=250 mW,
 dist=3.0mm (ES-Probe)/Area Scan (8x15x1): Measurement grid: dx=15mm,
 dy=15mm

Maximum value of SAR (measured) = 2.12 W/kg

System Performance Check at Frequencies 750MHz/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

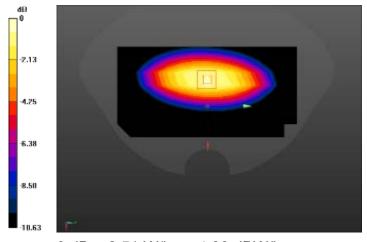
dx=5mm, dy=5mm, dz=5mm

Reference Value = 39.88 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.35 W/kg

Maximum value of SAR (measured) = 2.51 W/kg



0 dB = 2.51 W/kg = 4.00 dBW/kg

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835MHz

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used (interpolated): f = 835 MHz; σ = 0.975 S/m; ϵ_r = 54.541; ρ = 1000 ϵ_r

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 835/835/Area Scan (8x15x1): Measurement grid: dx=15mm,
 dy=15mm

Maximum value of SAR (measured) = 2.63 W/kg

Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

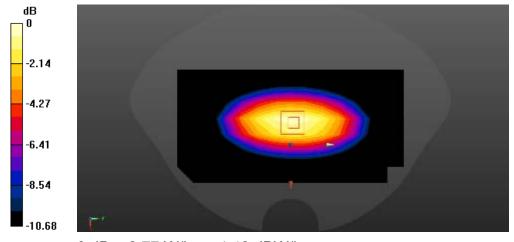
dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.70 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.54 W/kg

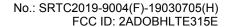
SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 2.77 W/kg



0 dB = 2.77 W/kg = 4.42 dBW/kg

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System check 835MHz

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used (interpolated): f = 835 MHz; σ = 0.971 S/m; ϵ_r = 55.036; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 835/835/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.63 W/kg

Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

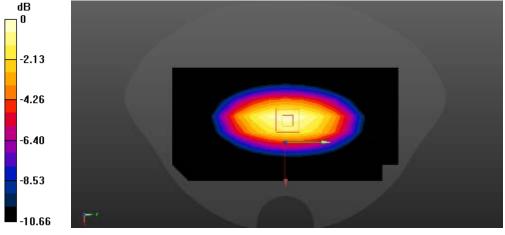
dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.21 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.50 W/kg

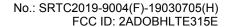
SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 2.74 W/kg



0 dB = 2.74 W/kg = 4.38 dBW/kg

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System check 835MHz

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used (interpolated): f = 835 MHz; σ = 0.966 S/m; ϵ_r = 56.196; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 835/835/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.57 W/kg

Configuration 835/835/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

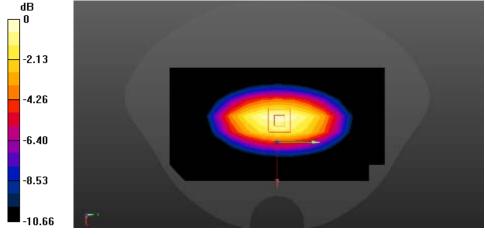
dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.34 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 3.26 W/kg

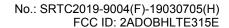
SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.49 W/kg

Maximum value of SAR (measured) = 2.58 W/kg



0 dB = 2.58 W/kg = 4.11 dBW/kg

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1800MHz

Communication System: UID 0, CW (0); Frequency: 1800 MHz

Medium parameters used: f = 1800 MHz; σ = 1.523 S/m; ε_r = 52.879; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 1800/1800/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.43 W/kg

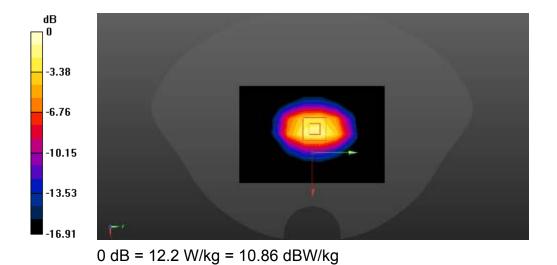
Configuration 1800/1800/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.19 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.55 W/kg; SAR(10 g) = 4.98 W/kg

Maximum value of SAR (measured) = 12.2 W/kg



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1800MHz

Communication System: UID 0, CW (0); Frequency: 1800 MHz

Medium parameters used: f = 1800 MHz; σ = 1.542 S/m; ε_r = 51.717; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018, ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 1800/1800/Area Scan (8x10x1): Measurement grid: dx=15mm,
 dy=15mm

Maximum value of SAR (measured) = 11.5 W/kg

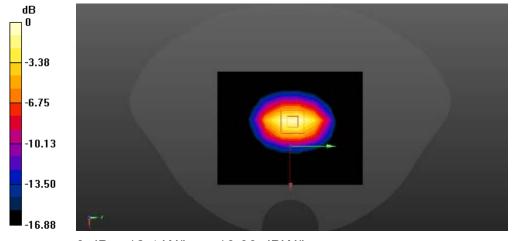
Configuration 1800/1800/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.17 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.67 W/kg; SAR(10 g) = 5.03 W/kg

Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

V1.0.0

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2000MHz

Communication System: UID 0, CW (0); Frequency: 2000 MHz

Medium parameters used: f = 2000 MHz; $\sigma = 1.546 \text{ S/m}$; $\varepsilon_r = 52.557$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018, ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 2000/2000/Area Scan (8x10x1): Measurement grid: dx=12mm, dy=12mm

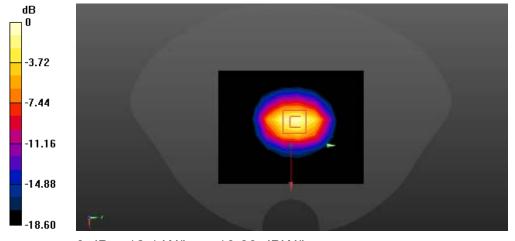
Maximum value of SAR (measured) = 11.1 W/kg

Configuration 2000/2000/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.14 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 17.8 W/kg

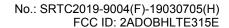
SAR(1 g) = 9.49 W/kg; SAR(10 g) = 4.78 W/kg Maximum value of SAR (measured) = 12.1 W/kg



0 dB = 12.1 W/kg = 10.83 dBW/kg

V1.0.0

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2000MHz

Communication System: UID 0, CW (0); Frequency: 2000 MHz

Medium parameters used: f = 2000 MHz; σ = 1.586 S/m; ε_r = 52.596; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration 2000/2000/Area Scan (7x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 10.0 W/kg

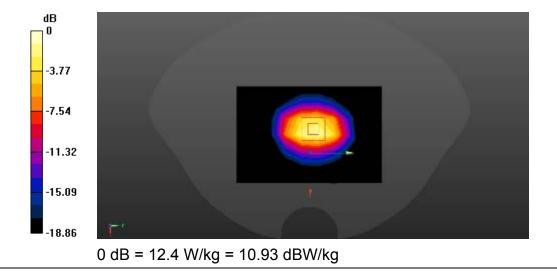
Configuration 2000/2000/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 79.83 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 18.3 W/kg

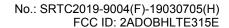
SAR(1 g) = 9.71 W/kg; SAR(10 g) = 4.87 W/kg

Maximum value of SAR (measured) = 12.4 W/kg



V1.0.0

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2450MHz

Communication System: UID 0, CW (0); Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.926 \text{ S/m}$; $\varepsilon_r = 50.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)

System Performance Check at Frequencies 2450 MHz/2450/Area Scan (8x10x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 15.9 W/kg

System Performance Check at Frequencies 2450 MHz/2450/Zoom Scan (7x7x7)

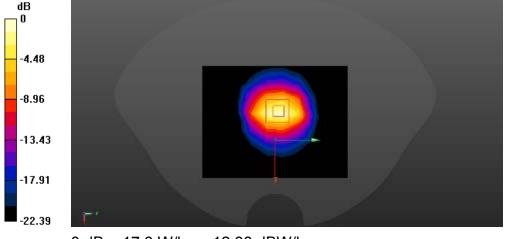
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 62.46 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 27.5 W/kg

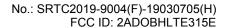
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.09 W/kg

Maximum value of SAR (measured) = 17.3 W/kg



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2450MHz

Communication System: UID 0, CW (0); Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.004 \text{ S/m}$; $\varepsilon_r = 51.927$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018, ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)

System Performance Check at Frequencies 2450 MHz/2450/Area Scan (7x10x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 12.9 W/kg

System Performance Check at Frequencies 2450 MHz/2450/Zoom Scan (7x7x7)

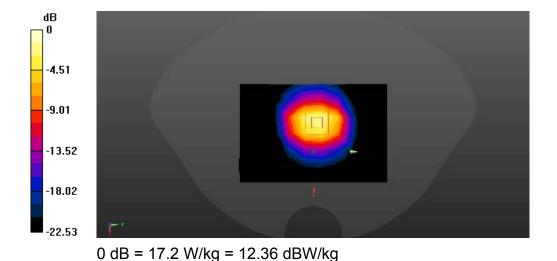
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.67 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 27.1 W/kg

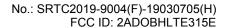
SAR(1 g) = 13 W/kg; SAR(10 g) = 5.94 W/kg

Maximum value of SAR (measured) = 17.2 W/kg



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2450MHz

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0

MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 2450 MHz; $\sigma = 2.027 \text{ S/m}$; $\varepsilon_r = 51.046$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Area Scan (9x13x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 13.4 W/kg

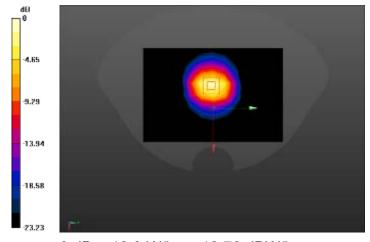
System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=4.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 62.29 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 29.3 W/kg

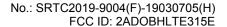
SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.13 W/kg

Maximum value of SAR (measured) = 18.9 W/kg



0 dB = 18.9 W/kg = 12.76 dBW/kg

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5300MHz

Communication System: UID 0, CW (0); Frequency: 5300 MHz

Medium parameters used: f = 5200 MHz; σ = 5.355 S/m; ϵ_r = 49.035; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

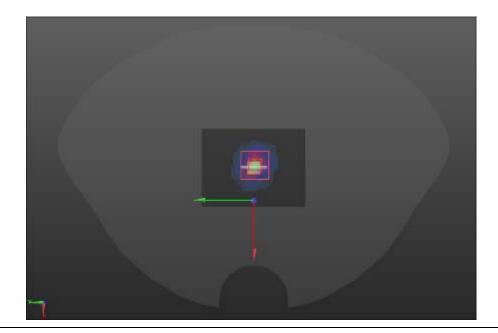
Probe: EX3DV4 - SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration/5300/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.47 W/kg

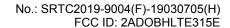
Configuration/5300/Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dv=5mm, d5=2mm

Reference Value = 11.12 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 0.73 W/kg; SAR(10 g) = 0.206 W/kgMaximum value of SAR (measured) = 2.11 W/kg



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5600MHz

Communication System: UID 0, CW (0); Frequency: 5600 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 5.627 \text{ S/m}$; $\varepsilon_r = 49.216$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018, ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;

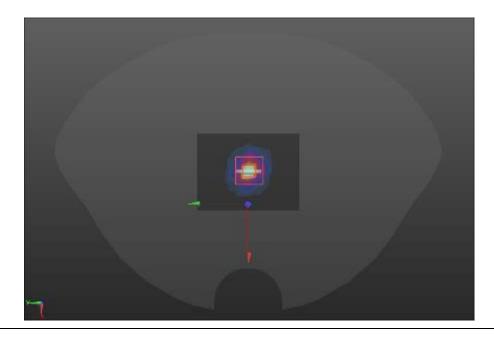
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration/5600/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 1.53 W/kg

Configuration/5600/Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, d5=2mm

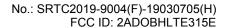
Reference Value = 11.24 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 3.42 W/kg

SAR(1 g) = 0.81 W/kg; SAR(10 g) = 0.414 W/kg Maximum value of SAR (measured) = 2.26 W/kg



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5800MHz

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used: f = 5800 MHz; $\sigma = 6.11 \text{ S/m}$; $\varepsilon_r = 47.36$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

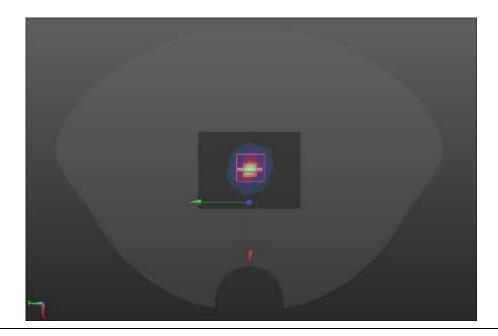
Probe: EX3DV4 - SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Configuration/5800/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 2.12 W/kg

Configuration/5800/Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 11.35 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 0.75 W/kg; SAR(10 g) = 0.226 W/kg Maximum value of SAR (measured) = 2.46 W/kg



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GSM (850MHz)

Up Antenna	Right Side	Cheek
Up Antenna	Right Side	Cheek

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.905 S/m; ϵ_r = 41.528; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/GPRS850 RC/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.12 W/kg

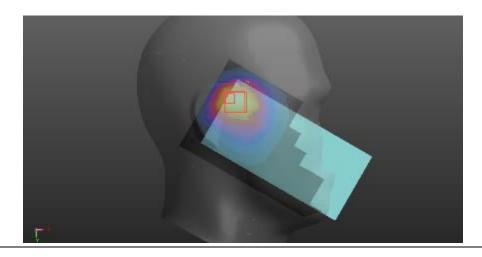
Right/GPRS850 RC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 36.96 V/m; Power Drift = -0.14 dB

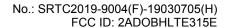
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.715 W/kg; SAR(10 g) = 0.444 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.976 S/m; ϵ_r = 55.195; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.33, 9.33, 9.33); Calibrated: 10/22/2018, ConvF(9.33, 9.33, 9.33); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 BACK&FRONT/BACK GPRS850/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.727 W/kg

BACK&FRONT/BACK GPRS850/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

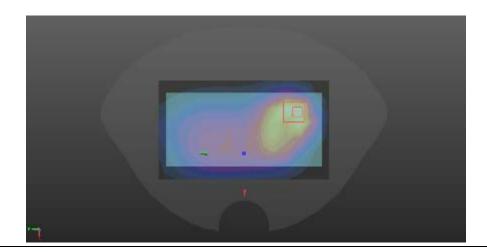
dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.61 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.978 W/kg

SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.294 W/kg

Maximum value of SAR (measured) = 0.793 W/kg



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GSM (1900MHz)

Up Antenna	Right side	Tilt

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.4 S/m; ϵ_r = 40; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018,
 ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/GPRS1900 RT/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.08 W/kg

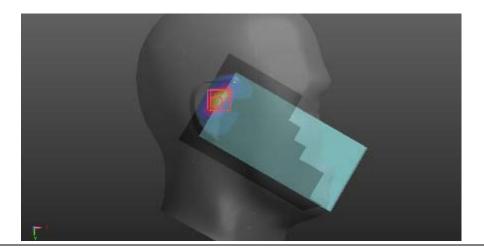
Right/GPRS1900 RT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.33 V/m; Power Drift = -0.05 dB

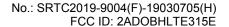
Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.752 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.526 S/m; ϵ_r = 53.291; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 BACK&FRONT/BACK GPRS1900/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.987 W/kg

BACK&FRONT/BACK GPRS1900/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.59 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.457 W/kg

Maximum value of SAR (measured) = 1.31 W/kg



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WCDMA B2

Up Antenna	Right side	Tilt

Communication System: UID 0, wcdma BANDII (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.4 S/m; ϵ_r = 40; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018,
 ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/WCDMA B2 RT/Area Scan (8x14x1): Measurement grid: dx=15mm,
 dv=15mm

Maximum value of SAR (measured) = 1.48 W/kg

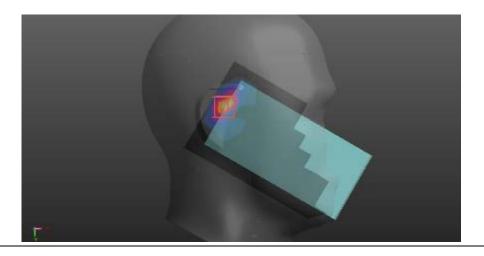
Right/WCDMA B2 RT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.10 V/m; Power Drift = 0.06 dB

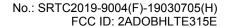
Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.943 W/kg; SAR(10 g) = 0.364 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, wcdma BANDII (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.526 S/m; ϵ_r = 53.291; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 BACK&FRONT/BACK WCDMA B2/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.726 W/kg

BACK&FRONT/BACK WCDMA B2/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.15 V/m; Power Drift = -0.16 dB

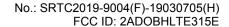
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



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WCDMA B4

Up Antenna Right side Tilt

Communication System: UID 0, wcdma bandIV (0); Frequency: 1752.6 MHz

Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.387 S/m; ϵ_r = 40.036; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(8.2, 8.2, 8.2); Calibrated: 10/22/2018, ConvF(8.2, 8.2, 8.2); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/WCDMA B4 RT/Area Scan (8x14x1): Measurement grid: dx=15mm,
 dy=15mm

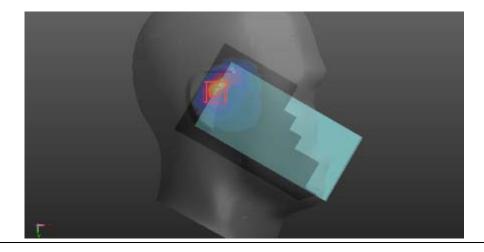
Maximum value of SAR (measured) = 1.93 W/kg

Right/WCDMA B4 RT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

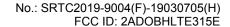
Reference Value = 38.17 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.544 W/kg Maximum value of SAR (measured) = 2.01 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, wcdma bandIV (0); Frequency: 1732.4 MHz

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.477 S/m; ϵ_r = 53.461; ρ =

1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.69, 7.69, 7.69); Calibrated: 10/22/2018, ConvF(7.69, 7.69, 7.69); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 BACK&FRONT/BACK WCDMA B4/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.502 W/kg

BACK&FRONT/BACK WCDMA B4/Zoom Scan (5x5x7)/Cube 0: Measurement

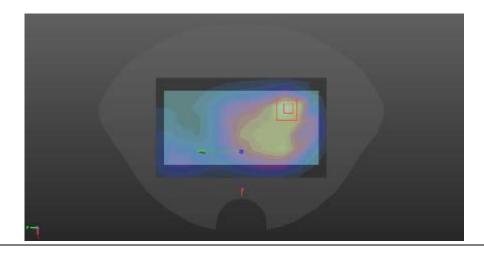
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.68 V/m; Power Drift = -0.04 dB

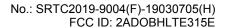
Peak SAR (extrapolated) = 0.692 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 0.568 W/kg



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WCDMA B5

Up Antenna	Right side	Cheek
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Communication System: UID 0, WCDMA 5 (0); Frequency: 836.6 MHz

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.905 S/m; ϵ_r = 41.528; ρ = 1000 Leg/cm³

kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018,
 ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/WCDMA B5 RC/Area Scan (8x14x1): Measurement grid: dx=15mm,
 dy=15mm

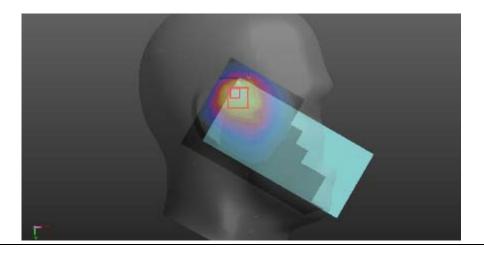
Maximum value of SAR (measured) = 1.11 W/kg

Right/WCDMA B5 RC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

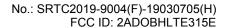
Reference Value = 38.27 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.758 W/kg; SAR(10 g) = 0.506 W/kg Maximum value of SAR (measured) = 1.33 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, WCDMA 5 (0); Frequency: 836.6 MHz

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.976 S/m; ϵ_{r} = 55.195; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.33, 9.33, 9.33); Calibrated: 10/22/2018, ConvF(9.33, 9.33, 9.33); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 BACK&FRONT/BACK WCDMA B5/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.303 W/kg

BACK&FRONT/BACK WCDMA B5/Zoom Scan (5x5x7)/Cube 0: Measurement

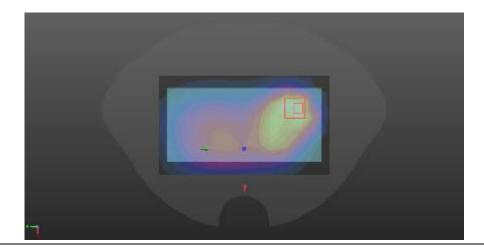
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.79 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.421 W/kg

SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.134 W/kg

Maximum value of SAR (measured) = 0.349 W/kg



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LTE B2

Up Antenna	Right side	Tilt
op /	mg.m o.u.o	

Communication System: UID 0, LTE band 02 (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.4 S/m; ϵ_r = 40; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018,
 ConvF(7.89, 7.89, 7.89); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE2 RT 1RB/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.22 W/kg

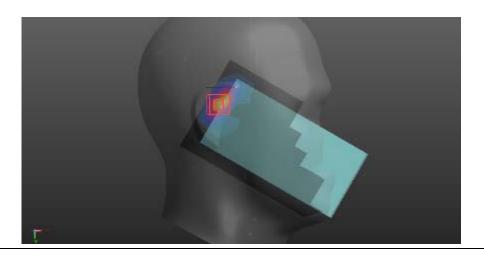
Right/LTE2 RT 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.07 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.294 W/kg

Maximum value of SAR (measured) = 1.19 W/kg



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Up Antenna	Hotspot	Тор
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Communication System: UID 0, LTE band 02 (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.526 S/m; ϵ_r = 53.291; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

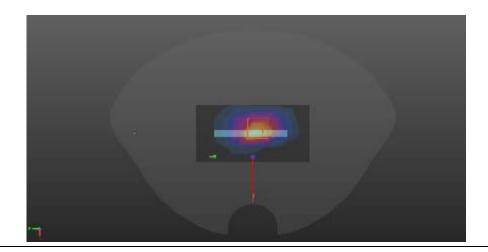
- Probe: EX3DV4 SN3708; ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018,
 ConvF(7.56, 7.56, 7.56); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 TOP/TOP LTE2/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.22 W/kg

TOP/TOP LTE2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.54 V/m; Power Drift = 0.04 dB

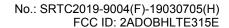
Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.511 W/kg Maximum value of SAR (measured) = 1.56 W/kg



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LTE B4

Up Antenna	Right side	Cheek

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz

Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma = 1.375$ S/m; $\epsilon_r = 40.07$; $\rho = 1000$

kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(8.2, 8.2, 8.2); Calibrated: 10/22/2018, ConvF(8.2, 8.2, 8.2); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE4 RC 1RB/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.45 W/kg

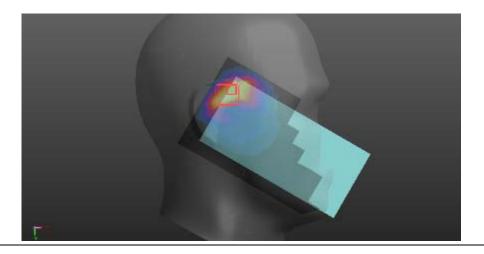
Right/LTE4 RC 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.15 V/m; Power Drift = -0.01 dB

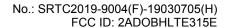
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.430 W/kg

Maximum value of SAR (measured) = 1.40 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.477 S/m; ϵ_r = 53.46; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.69, 7.69, 7.69); Calibrated: 10/22/2018, ConvF(7.69, 7.69, 7.69); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)

BACK&FRONT/BACK LTE4 1RB/Area Scan (8x13x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.541 W/kg

BACK&FRONT/BACK LTE4 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

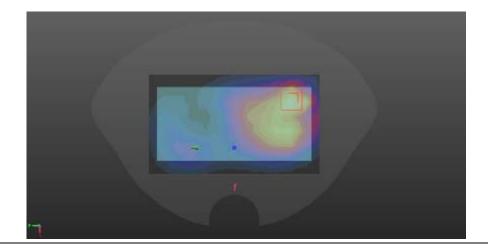
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.44 V/m; Power Drift = -0.18 dB

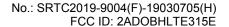
Peak SAR (extrapolated) = 0.726 W/kg

SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.223 W/kg

Maximum value of SAR (measured) = 0.597 W/kg



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Up Antenna	Right side	Tilt
Up Antenna	Right side	HIIT

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.905 S/m; ϵ_r = 41.528; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE5 RT 1RB/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.01 W/kg

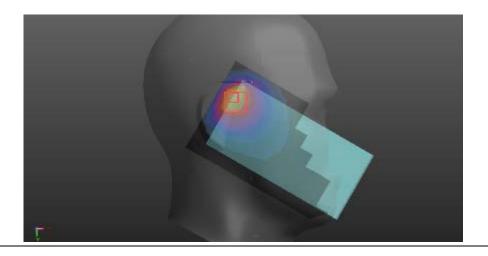
Right/LTE5 RT 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.66 V/m; Power Drift = -0.06 dB

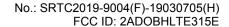
Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.752 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.976 S/m; ϵ_r = 55.195; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.33, 9.33, 9.33); Calibrated: 10/22/2018, ConvF(9.33, 9.33, 9.33); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 BACK&FRONT/BACK LTE5 1RB/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.292 W/kg

BACK&FRONT/BACK LTE5 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

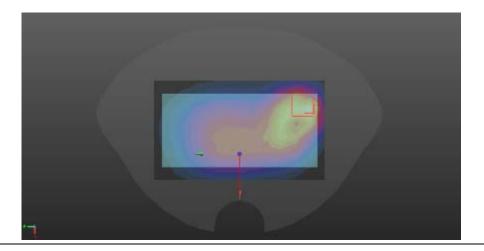
dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.38 V/m; Power Drift = -0.02 dB

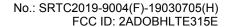
Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.324 W/kg; SAR(10 g) = 0.212 W/kg

Maximum value of SAR (measured) = 0.283 W/kg



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Up Antenna	Right side	Tilt
ор /с	1119111 01010	

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.888 S/m; ϵ_r = 39.084; ρ = 1000

kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.01, 7.01, 7.01); Calibrated: 10/22/2018,
 ConvF(7.01, 7.01, 7.01); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 RIGHT LTE7/LTE7 RT 1RB/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.894 W/kg

RIGHT LTE7/LTE7 RT 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

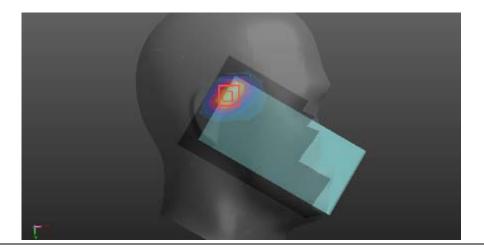
dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.76 V/m; Power Drift = -0.11 dB

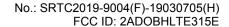
Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.639 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz

Medium parameters used (interpolated): f = 2535 MHz; σ = 2.067 S/m; ϵ_r = 52.592; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.14, 7.14, 7.14); Calibrated: 10/22/2018, ConvF(7.14, 7.14, 7.14); Calibrated: 10/22/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437) above 2GHz/BACK LTE7 1RB/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.915 W/kg

above 2GHz/BACK LTE7 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.669 V/m; Power Drift = -0.15 dB

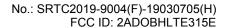
Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.667 W/kg

Maximum value of SAR (measured) = 2.13 W/kg



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Up Antenna	Right side	Cheek
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Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.887 S/m; ϵ_r = 42.115; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.59, 9.59, 9.59); Calibrated: 10/22/2018,
 ConvF(9.59, 9.59, 9.59); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE12 RC 1RB/Area Scan (8x14x1): Measurement grid: dx=15mm,
 dv=15mm

Maximum value of SAR (measured) = 0.780 W/kg

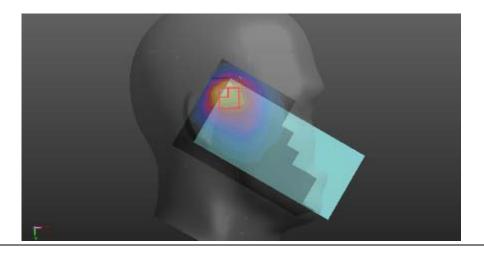
Right/LTE12 RC 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.83 V/m; Power Drift = -0.02 dB

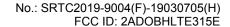
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.275 W/kg

Maximum value of SAR (measured) = 0.725 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.955 S/m; ϵ_r = 55.657; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.51, 9.51, 9.51); Calibrated: 10/22/2018, ConvF(9.51, 9.51, 9.51); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 BACK&FRONT/BACK LTE12 1RB/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.173 W/kg

BACK&FRONT/BACK LTE12 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

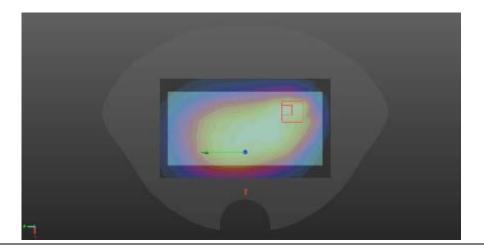
dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.25 V/m; Power Drift = -0.04 dB

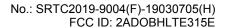
Peak SAR (extrapolated) = 0.212 W/kg

SAR(1 g) = 0.166 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.175 W/kg



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Up Antenna	Right side	Cheek

Communication System: UID 0, LTE band 66 (0); Frequency: 1745 MHz

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.383 S/m; ϵ_r = 40.047; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(8.2, 8.2, 8.2); Calibrated: 10/22/2018, ConvF(8.2, 8.2, 8.2); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE66 RC 1RB/Area Scan (8x14x1): Measurement grid: dx=15mm,
 dy=15mm

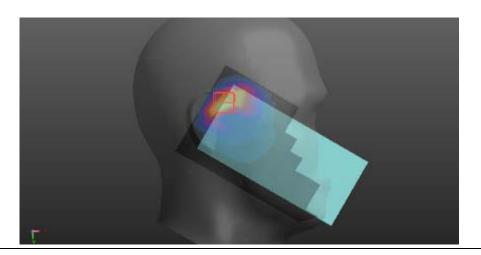
Maximum value of SAR (measured) = 1.60 W/kg

Right/LTE66 RC 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

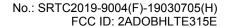
Reference Value = 28.99 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.74 W/kg; SAR(10 g) = 0.347 W/kg Maximum value of SAR (measured) = 1.41 W/kg



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Up Antenna Body-worn Back

Communication System: UID 0, LTE band 66 (0); Frequency: 1745 MHz

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.485 S/m; ϵ_r = 53.422; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.69, 7.69, 7.69); Calibrated: 10/22/2018, ConvF(7.69, 7.69, 7.69); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 BACK&FRONT/BACK LTE66 1RB/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.549 W/kg

BACK&FRONT/BACK LTE66 1RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

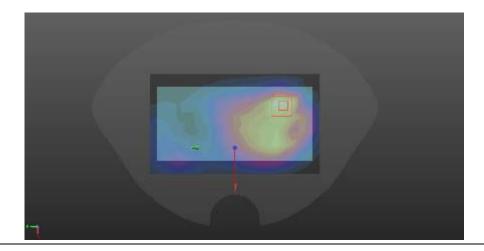
dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.44 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.235 W/kg

Maximum value of SAR (measured) = 0.636 W/kg



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GSM (850MHz)

Down Antenna	Right Side	Cheek
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Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.905 S/m; ϵ_r = 41.528; ρ = 1000 kg/m³

kg/m³

Phantom section: Right Section

DASY5 Configuration:

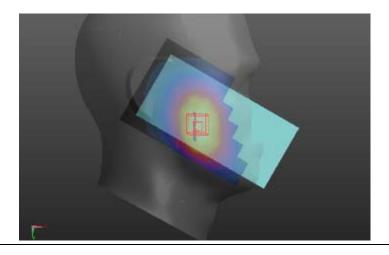
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/GSM850 RC/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.267 W/kg

Right/GSM850 RC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.236 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.178 W/kg Maximum value of SAR (measured) = 0.279 W/kg



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Down Antenna Hotspot Bottom

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.976 S/m; ϵ_r = 55.195; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

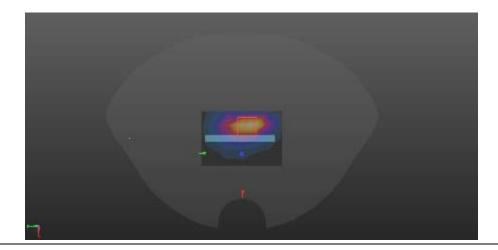
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/GSM850/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.293 W/kg

Bottom/GSM850/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.55 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.541 W/kg

SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.122 W/kg Maximum value of SAR (measured) = 0.328 W/kg



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GSM (1900MHz)

Down Antenna	Left side	Cheek

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.4 S/m; ϵ_r = 40; ρ = 1000 kg/m³

Phantom section: Left Section

DASY5 Configuration:

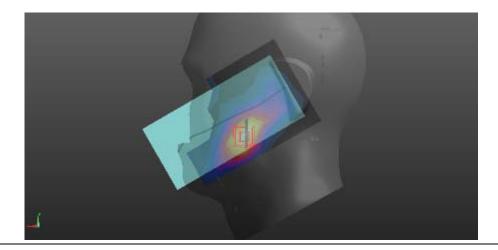
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018,
 ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Left/GSM1900 LC/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.0464 W/kg

Left/GSM1900 LC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.889 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0690 W/kg

SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.024 W/kg Maximum value of SAR (measured) = 0.0486 W/kg



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Down Antenna	Hotspot Bottom
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Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.526 S/m; ϵ_r = 53.291; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

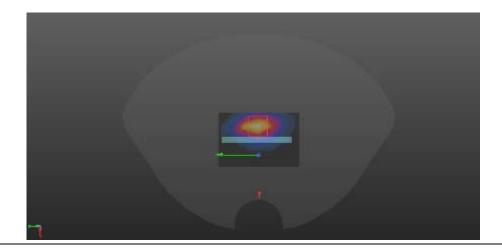
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/GSM1900/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.947 W/kg

Bottom/GSM1900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.65 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.768 W/kg; SAR(10 g) = 0.393 W/kg Maximum value of SAR (measured) = 0.968 W/kg



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WCDMA B2

Down Antenna	Left side	Cheek
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Communication System: UID 0, WCDMA BAND2 (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.4 S/m; ϵ_r = 40; ρ = 1000 kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Left/WCDMA B2 LC/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.0685 W/kg

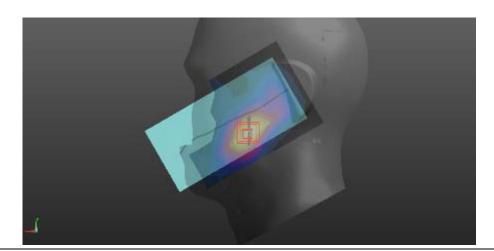
Left/WCDMA B2 LC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.881 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.0950 W/kg

SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.0667 W/kg



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Down Antenna	Hotspot	Bottom
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Communication System: UID 0, WCDMA BAND2 (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.526 S/m; ϵ_r = 53.291; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

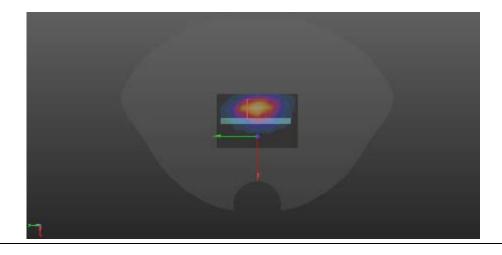
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/W2/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.12 W/kg

Bottom/W2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

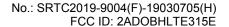
Reference Value = 17.09 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.478 W/kg



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WCDMA B4

Down Antenna	Left side	Tilt

Communication System: UID 0, WCDMA BAND4 (0); Frequency: 1732.4 MHz

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.375 S/m; ϵ_r = 40.07; ρ = 1000

kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018,
 ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Left/WCDMA B4 LT/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.0425 W/kg

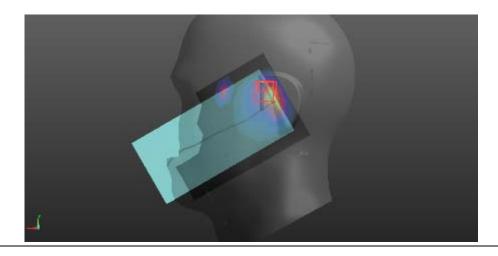
Left/WCDMA B4 LT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.606 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.515 W/kg

SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.294 W/kg



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Down Antenna Hotspot Bottom

Communication System: UID 0, WCDMA BAND4 (0); Frequency: 1732.4 MHz

Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.477 S/m; ϵ_r = 53.461; ρ =

1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

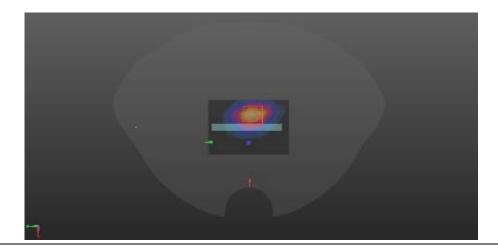
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/W4/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.147 W/kg

Bottom/W4/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

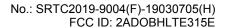
Reference Value = 6.541 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.066 W/kg Maximum value of SAR (measured) = 0.170 W/kg



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WCDMA B5

Down Antenna	Right side	Cheek
	_	

Communication System: UID 0, WCDMA BAND 5 (0); Frequency: 836.6 MHz

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.905 S/m; ϵ_r = 41.528; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/WCDMA B5 RC/Area Scan (8x13x1): Measurement grid: dx=15mm,
 dy=15mm

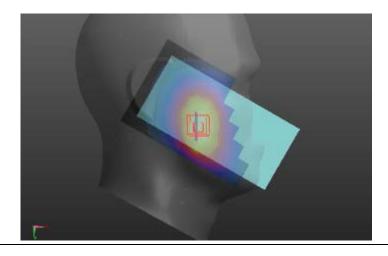
Maximum value of SAR (measured) = 0.148 W/kg

Right/WCDMA B5 RC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.823 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.097 W/kg Maximum value of SAR (measured) = 0.151 W/kg



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Down Antenna Hotspot Bottom

Communication System: UID 0, WCDMA BAND 5 (0); Frequency: 836.6 MHz

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.976 S/m; ϵ_r = 55.195; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

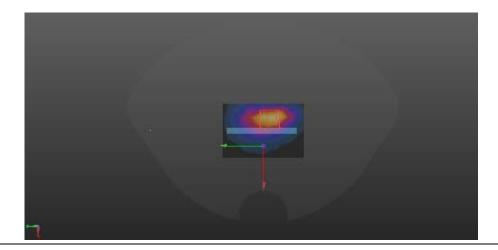
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/W5/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.143 W/kg

Bottom/W5/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.240 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.061 W/kg Maximum value of SAR (measured) = 0.156 W/kg



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Down Antenna	Right side	Tilt
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Communication System: UID 0, LTE band 02 (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.4 S/m; ϵ_r = 40; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

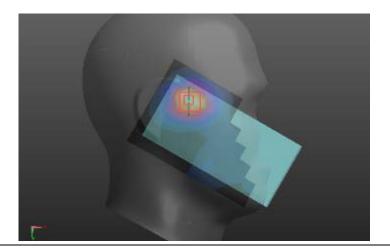
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE2 RT/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.0489 W/kg

Right/LTE2 RT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.446 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0680 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.025 W/kgMaximum value of SAR (measured) = 0.0511 W/kg



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Down Antenna Hotspot Bottom	
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Communication System: UID 0, LTE band 02 (0); Frequency: 1880 MHz

Medium parameters used (interpolated): f = 1880 MHz; σ = 1.526 S/m; ϵ_r = 53.291; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/LTE2/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.00 W/kg

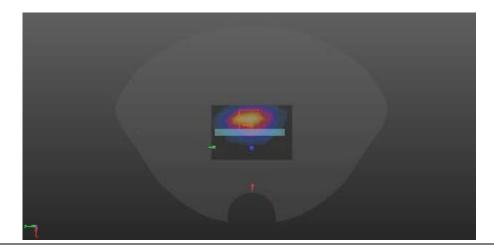
Bottom/LTE2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.59 V/m; Power Drift = 0.04 dB

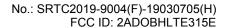
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.706 W/kg; SAR(10 g) = 0.449 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



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Down Antenna Right side Tilt

Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.375 S/m; ϵ_r = 40.07; ρ = 1000 kg/m³

Phantom section: Right Section

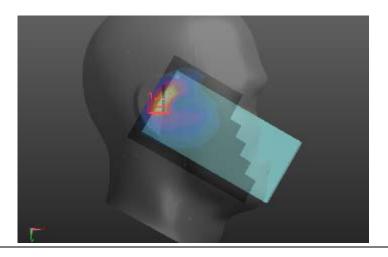
DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE4 RT/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.00984 W/kg

Right/LTE4 RT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.743 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.0160 W/kg

SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.026 W/kg Maximum value of SAR (measured) = 0.0989 W/kg



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	Down Antenna	Hotspot	Bottom
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Communication System: UID 0, LTE band 4 (0); Frequency: 1732.5 MHz

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.477 S/m; ϵ_r = 53.46; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

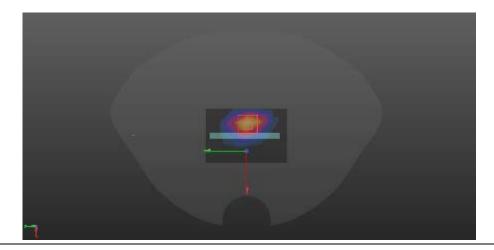
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/LTE4/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.155 W/kg

Bottom/LTE4/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

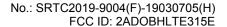
Reference Value = 6.619 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.258 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.067 W/kg Maximum value of SAR (measured) = 0.171 W/kg



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Down Antenna F	Right side	Cheek
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Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.905 S/m; ϵ_r = 41.528; ρ = 1000 kg/m³

kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018,
 ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE5 RC/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.130 W/kg

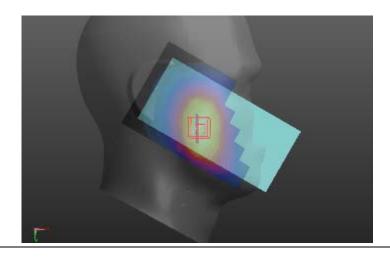
Right/LTE5 RC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.789 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.133 W/kg



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Down Antenna Body-worn Back

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.976 S/m; ϵ_r = 55.195; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Back/LTE5/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.207 W/kg

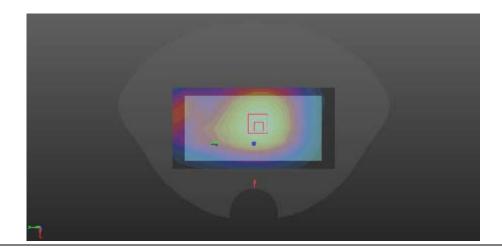
Back/LTE5/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.00 V/m; Power Drift = 0.01 dB

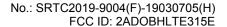
Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.208 W/kg



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Down Antenna	Right side	Cheek
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Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz

Medium parameters used (interpolated): f = 2535 MHz; σ = 1.888 S/m; ϵ_r = 39.084; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

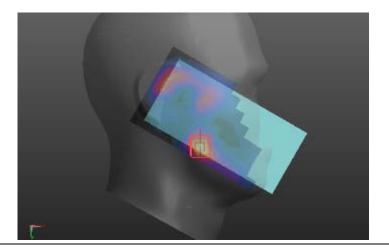
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE7RC/Area Scan (9x16x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.0756 W/kg

Right/LTE7RC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.177 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.031 W/kg Maximum value of SAR (measured) = 0.0761 W/kg



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Down Antenna Hotspot Bottom

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz

Medium parameters used (interpolated): f = 2535 MHz; σ = 2.067 S/m; ϵ_r = 52.592; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

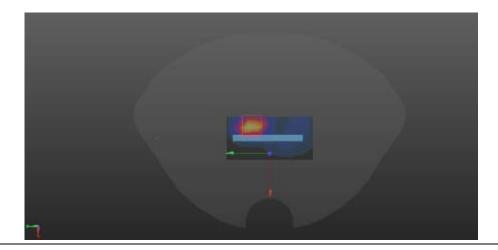
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/LTE7/Area Scan (5x9x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 0.376 W/kg

Bottom/LTE7/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

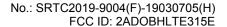
Reference Value = 6.706 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.645 W/kg

SAR(1 g) = 0.300 W/kg; SAR(10 g) = 0.132 W/kg Maximum value of SAR (measured) = 0.406 W/kg



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Down Antenna	Right side	Tilt
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Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.887$ S/m; $\varepsilon_r = 42.115$; $\rho = 1000$

kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE12 RT/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.0394 W/kg

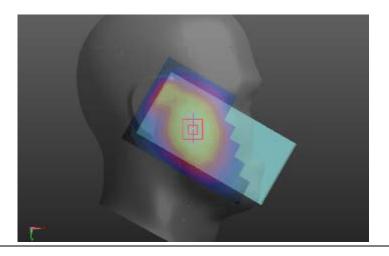
Right/LTE12 RT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.117 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0460 W/kg

SAR(1 g) = 0.26 W/kg; SAR(10 g) = 0.428 W/kg.

Maximum value of SAR (measured) = 0.496 W/kg



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Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz

Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.955 S/m; ϵ_r = 55.657; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Back/LTE12/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.132 W/kg

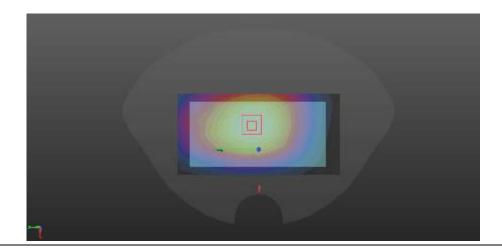
Back/LTE12/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.91 V/m; Power Drift = 0.06 dB

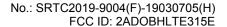
Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.134 W/kg



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Down Antenna	Right side	Cheek
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Communication System: UID 0, LTE band 66 (0); Frequency: 1745 MHz

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.383 S/m; ϵ_r = 40.047; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Right/LTE66 RC/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.237 W/kg

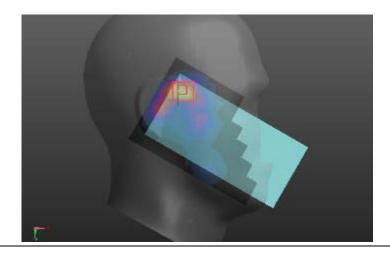
Right/LTE66 RC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.380 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0550 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.026 W/kg

Maximum value of SAR (measured) = 0.036 W/kg



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Down Antenna	Hotspot	Bottom
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Communication System: UID 0, LTE band 66 (0); Frequency: 1745 MHz

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.485 S/m; ϵ_r = 53.422; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

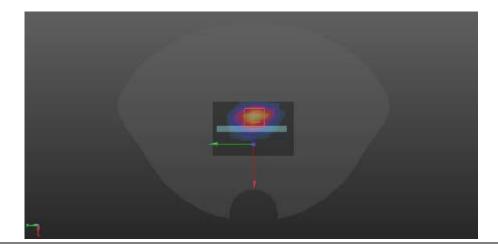
- Probe: EX3DV4 SN3708; ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018, ConvF(9.16, 9.16, 9.16); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 Bottom/LTE66/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.363 W/kg

Bottom/LTE66/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

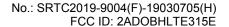
Reference Value = 6.878 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.272 W/kg

SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.471 W/kg Maximum value of SAR (measured) = 0.378 W/kg



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WIFI 2.4G Left side Cheek

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2437 MHz

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.788 S/m; ϵ_r = 39.219; ρ = 1000

kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.13, 7.13, 7.13); Calibrated: 10/22/2018,
 ConvF(7.13, 7.13, 7.13); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 WIFI/WIFI2.4G 11B LC/Area Scan (10x17x1): Measurement grid: dx=12mm, dv=12mm

Maximum value of SAR (measured) = 0.367 W/kg

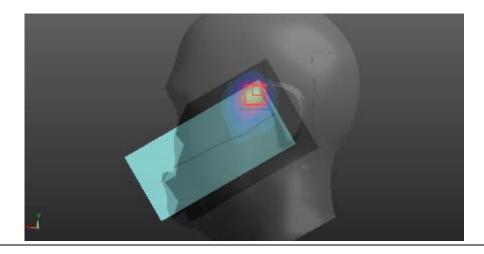
WIFI/WIFI2.4G 11B LC/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.610 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.558 W/kg

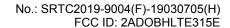
SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.112 W/kg

Maximum value of SAR (measured) = 0.358 W/kg



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WIFI 2.4G Body worn Front

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2437 MHz

Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 1.933$ S/m; $\epsilon_r = 52.717$; $\rho = 1000$

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.19, 7.19, 7.19); Calibrated: 10/22/2018,
 ConvF(7.19, 7.19, 7.19); Calibrated: 10/22/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 WIFI2.4GHz/FRONT WIFI2.4G 11B/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0334 W/kg

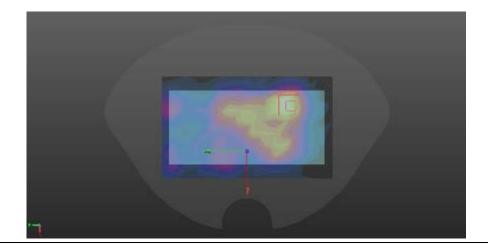
WIFI2.4GHz/FRONT WIFI2.4G 11B/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: dx=8mm, dy=8mm, dz=5mm

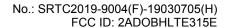
Reference Value = 3.549 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.0720 W/kg

SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.020 W/kg Maximum value of SAR (measured) = 0.0591 W/kg



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WIFI 5.3G Left side Tilt

Communication System: UID 10062 - CAB, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps);

Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; σ = 4.683 S/m; ε_r = 36.853; ρ = 1000 kg/m³

Phantom section: Left Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3708; ConvF(5.25, 5.25, 5.25); Calibrated: 10/22/2018, ConvF(5.25, 5.25, 5.25); Calibrated: 10/22/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 10/15/2018

Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 WIFI5G/WIFI5G 5300 LT/Area Scan (11x19x1): Measurement grid: dx=10mm,
 dy=10mm

Maximum value of SAR (measured) = 0.752 W/kg

WIFI5G/WIFI5G 5300 LT/Zoom Scan (6x6x12)/Cube 0: Measurement grid:

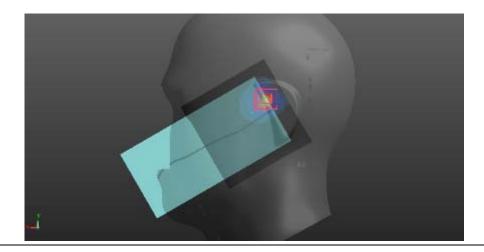
dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.315 V/m; Power Drift = -0.12 dB

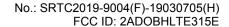
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.808 W/kg



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WIFI 5.3G Body worn Front

Communication System: UID 10062 - CAB, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps);

Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 5.355 \text{ S/m}$; $\varepsilon_r = 49.035$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(4.41, 4.41, 4.41); Calibrated: 10/22/2018,
 ConvF(4.41, 4.41, 4.41); Calibrated: 10/22/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 10/15/2018

Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 WIFI5G/FRONT WIFI5G 5300/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0667 W/kg

WIFI5G/FRONT WIFI5G 5300/Zoom Scan (6x6x12)/Cube 0: Measurement grid:

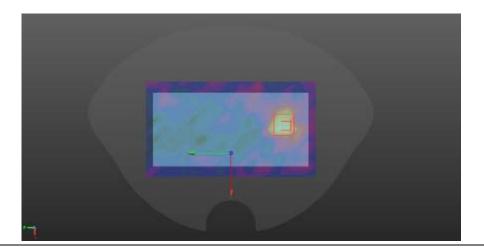
dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.200 V/m; Power Drift = 0.13 dB

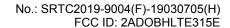
Peak SAR (extrapolated) = 0.141 W/kg

SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0783 W/kg



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WIFI 5.5G Left side Tilt

Communication System: UID 10062 - CAB, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps);

Frequency: 5580 MHz

Medium parameters used (interpolated): f = 5580 MHz; σ = 5.049 S/m; ϵ_r = 35.526; ρ = 1000

kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(4.84, 4.84, 4.84); Calibrated: 10/22/2018,
 ConvF(4.84, 4.84, 4.84); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 WIFI5G/WIFI5G 5580 LT/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.951 W/kg

WIFI5G/WIFI5G 5580 LT/Zoom Scan (6x6x12)/Cube 0: Measurement grid:

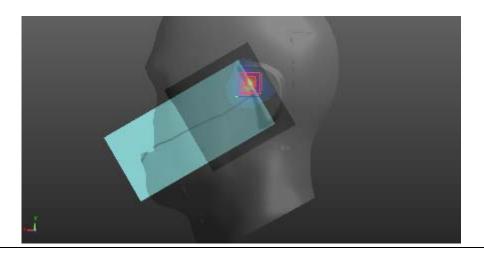
dx=5mm, dy=5mm, dz=2mm

Reference Value = 7.802 V/m; Power Drift = 0.07 dB

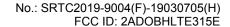
Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.112 W/kg

Maximum value of SAR (measured) = 0.961 W/kg



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WIFI 5.5G Body worn Front

Communication System: UID 10062 - CAB, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps);

Frequency: 5580 MHz

Medium parameters used (interpolated): f = 5580 MHz; σ = 5.768 S/m; ϵ_r = 48.507; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(3.99, 3.99, 3.99); Calibrated: 10/22/2018, ConvF(3.99, 3.99, 3.99); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 WIFI5G/FRONT WIFI5G 5580/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0727 W/kg

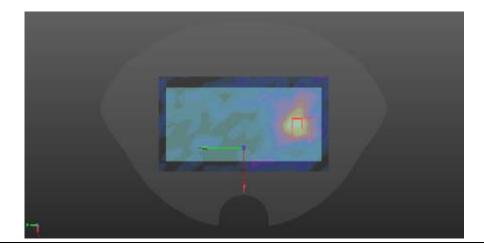
WIFI5G/FRONT WIFI5G 5580/Zoom Scan (6x6x12)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.861 V/m; Power Drift = -0.06 dB

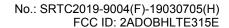
Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.016 W/kg Maximum value of SAR (measured) = 0.107 W/kg



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WIFI 5.8G Left side Tilt

Communication System: UID 10062 - CAB, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps);

Frequency: 5785 MHz

Medium parameters used (interpolated): f = 5785 MHz; σ = 5.255 S/m; ϵ_r = 35.315; ρ = 1000

kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(5.04, 5.04, 5.04); Calibrated: 10/22/2018, ConvF(5.04, 5.04, 5.04); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1559; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 WIFI5G/WIFI5G 5785 LT/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.01 W/kg

WIFI5G/WIFI5G 5785 LT/Zoom Scan (6x6x12)/Cube 0: Measurement grid:

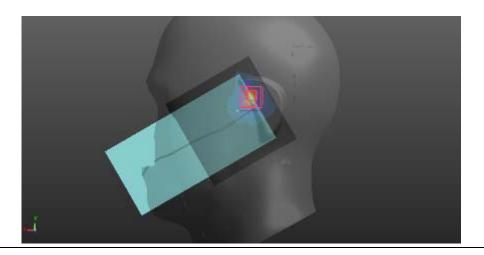
dx=5mm, dy=5mm, dz=2mm

Reference Value = 8.233 V/m; Power Drift = -0.10 dB

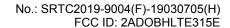
Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.115 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



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WIFI 5.8G Body worn Front

Communication System: UID 10062 - CAB, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps);

Frequency: 5785 MHz

Medium parameters used (interpolated): f = 5785 MHz; σ = 5.984 S/m; ϵ_r = 48.221; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(4.21, 4.21, 4.21); Calibrated: 10/22/2018, ConvF(4.21, 4.21, 4.21); Calibrated: 10/22/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 10/15/2018
- Phantom: Twin-SAM 1560; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)
 WIFI5G/FRONT WIFI5G 5785/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0922 W/kg

WIFI5G/FRONT WIFI5G 5785/Zoom Scan (6x6x12)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.919 V/m; Power Drift = -0.41 dB

Peak SAR (extrapolated) = 0.176 W/kg

SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.021 W/kg Maximum value of SAR (measured) = 0.109 W/kg



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