

DASY5 Validation Report for Body TSL

Date: 26.07.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1060

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz

Medium parameters used: f = 5250 MHz; σ = 5.42 S/m; ϵ_r = 47.1; ρ = 1000 kg/m³ Medium parameters used: f = 5600 MHz; σ = 5.88 S/m; ϵ_r = 46.5; ρ = 1000 kg/m³ Medium parameters used: f = 5750 MHz; σ = 6.11 S/m; ϵ_r = 46.2; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(4.85, 4.85, 4.85); Calibrated: 30.06.2016, ConvF(4.35, 4.35, 4.35); Calibrated: 30.06.2016, ConvF(4.3, 4.3, 4.3); Calibrated: 30.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5250MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.69 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 7.62 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 18.0 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.99 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 7.97 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 19.2 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.44 V/m; Power Drift = 0.00 dB

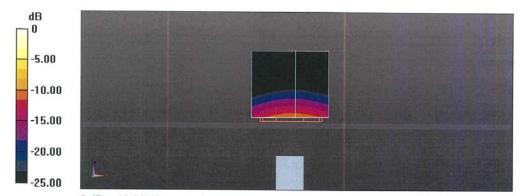
Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 7.51 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 18.2 W/kg

Certificate No: D5GHzV2-1060_Jul16

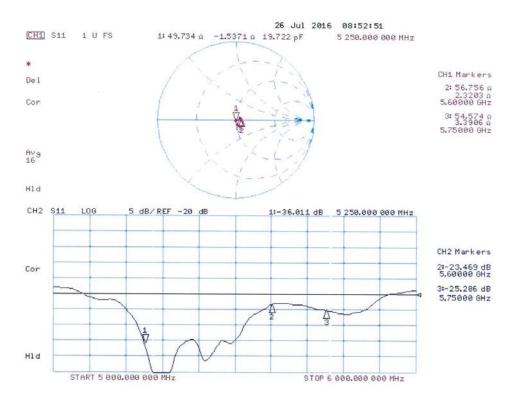




0 dB = 18.2 W/kg = 12.60 dBW/kg



Impedance Measurement Plot for Body TSL





ANNEX I SPOT CHECK

As the test lab for 5085G from TCL Communication Ltd, we, CTTL (Shouxiang), declare on our sole responsibility that, according to "Declaration of changes" provided by applicant, only the Spot check test should be performed. The test results are as below.

I.1 Conducted power of selected case

Table I.1-1: The conducted power results for GSM850/1900

CCM		Conducted Power (dBm)						
GSM 850MHz	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)					
OSUIVINZ	31.52	31.80	31.90					
OCM	Conducted Power (dBm)							
GSM	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)					
1900MHz	28.59	28.50	28.25					

Table I.1-2: The conducted power results for GPRS

GSM 850	N	leasured Power (dBn	n)		
GPRS (GMSK)	251	190	128		
4 Txslots	26.14	26.36	26.44		
PCS1900	Measured Power (dBm)				
GPRS (GMSK)	810	661	512		
4 Txslots	23.78	23.59	23.42		

Table I.1-3: The conducted Power for WCDMA

ltom	band		FDDV result					
Item	ARFCN	4233 (846.6MHz)	4182 (836.4MHz)	4132 (826.4MHz)				
WCDMA	1	23.55	23.65	23.93				
ltem	band	FDDII result						
item	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)				
WCDMA	1	22.17	22.21	22.20				
lt o me	band		FDDIV result					
Item	ARFCN	1513 (1752.6MHz)	1412 (1732.4MHz)	1312 (1712.4MHz)				
WCDMA	1	22.41	22.42	22.38				

Table I.1-4: The conducted Power for LTE

	1RB-Low (0)	1900 (19100)	22.73				
LTE Band2 20MHz	1RB-High (99)	1880 (18900)	22.69				
	1RB-High (99)	1860 (18700)	22.69				
		1745 (20300)	23.83				
LTE Band4 20MHz	1RB-High (99)	1732.5 (20175)	23.89				
		1720 (20050)	23.93				
		844 (20600)	23.74				
LTE Band5 10MHz	1RB-High (49) 836.5 (20525) 2						
		829 (20450)	23.82				
	1RB-Hlgh (99)	2560 (21350)	22.88				
LTE Band7 20MHz	1RB-Low (0)	2535 (21100)	22.90				
	1RB-Hlgh (99)	2510 (20850)	22.96				
	1RB-Low (0)	711 (23130)	23.45				
LTE Band12 10MHz	1RB-High (49)	707.5 (23095)	23.50				
	1RB-High (49)	704 (23060)	23.46				



Table I.1-5: The conducted Power for WLAN

Mode / data rate	Channel	Measured Power (dBm)
802.11b – 1Mbps	1	17.51
802.11a – 6Mbps	165	15.66

I.2 Measurement results

Table I.2-1: SAR Values (GSM 850 MHz Band - Head)

			Am	nbient Tem	perature: 22	.9°C Lic	uid Tempera	ture: 22.5°C	1		
Freq	Frequency Side Test Figure Conducted Power					Max. tune-up	Measured	Reported	Measured	Reported	Power
Ch.	MHz	Side	Position	No./Note	(dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
128	824.2	L	Cheek	Fig.1	31.90	32	0.155	0.16	0.201	0.21	0.02

Table I.2-2: SAR Values (GSM 850 MHz Band - Body)

			Ambie	ent Temper	ature: 22.9 °(C Liq	uid Tempera	ture: 22.5°0	C		
Fred Ch.	quency MHz	Mode (number of timeslots)	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
128	824.2	GPRS (4)	Rear	Fig.2	26.44	26.5	0.265	0.27	0.335	0.34	0.03

Note: The distance between the EUT and the phantom bottom is 10mm.

Table I.2-3: SAR Values(GSM 1900 MHz Band - Head)

			Ambie	nt Tempera	ature: 22.9°C	C Lic	quid Tempe	rature: 22.5	°C		
Free	quency	Side	Test	Figure	Conducted Power	Max. tune-up	Measured SAR(10g)	Reported SAR(10g)	Measured SAR(1g)	Reported SAR(1g)	Power Drift
Ch.	MHz	Oluc	Position	No./Note	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
512	1850.2	L	Cheek	Fig.3	28.25	29	0.057	0.07	0.090	0.11	0.07

Table I.2-4: SAR Values (GSM 1900 MHz Band - Body)

			Ambier	nt Tempe	erature: 22.9)°C Liqu	id Tempera	ture: 22.5°0	2		
Fre	Frequency Mode Test Figure Conducted Max. tune-up Measured Reported Reported P										
	(numl			No./N	Power	_	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
Ch.	h. MHz timeslots) Position ote (dBm)				Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)	
512	1850.2	GPRS (4)	Bottom	Fig.4	23.42	24	0.371	0.42	0.717	0.82	-0.18

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table I.2-5: SAR Values (WCDMA 850 MHz Band - Head)

	Ambient Temperature: 22.9 °C Liquid Temperature: 22.5 °C													
Freq	uency		Test	Eiguro	Conducted	Max.	Measured	Reported	Measured	Reported	Power			
Ch.	MHz	Side	Position	Figure No./Note	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)			
4233	846.6	L	Cheek	Fig.5	23.93	24	0.262	0.27	0.341	0.35	-0.14			



Table I.2-6: SAR Values (WCDMA 850 MHz Band - Body)

			Ambient	Temperatur	re: 22.9 °C	Liquid Ter	quid Temperature: 22.5°C			
Freq	uency	Toot	Figure	Conducted	May tupe up	Measured	Reported	Measured	Reported	Power
	1	Test	No./N	Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
Ch.	MHz	Position	ote	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
4233	846.6	Left	Fig.6	23.93	24	0.354	0.36	0.514	0.52	0.00

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table I.2-7: SAR Values(WCDMA 1700 MHz Band - Head)

			Ambier	nt Tempera	ture: 22.9°C	Lic	uid Tempei	ature: 22.5	°C		
Fred	quency		Test	Figure	Conducted	Max.	Measured	Reported	Measured	Reported	Power
Ch.	MHz	Side	Position	Figure No./Note	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1738	1752.6	L	Cheek	Fig.7	22.38	23	0.138	0.16	0.211	0.24	0.14

Table I.2-8: SAR Values (WCDMA 1700 MHz Band - Body)

		А	mbient Te	emperature	e: 22.9 °C	Liquid Ter	mperature:	22.5°C		
Fred	guency	Test	Figure	Conducte	May tupo up	Measured	Reported	Measured	Reported	Power
	Frequency		No./Not	d Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
Ch.	MHz	Position	е	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
1738	1752.6	Bottom	Fig.8	22.38	23	0.563	0.65	1.06	1.22	-0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table I.2-9: SAR Values (WCDMA 1900 MHz Band - Head)

			Ambien	t Tempera	ture: 22.9°C	Lic	quid Tempei	ature: 22.5	°C		
Fred	quency		Toot	Figure	Conducted	Max.	Measured	Reported	Measured	Reported	Power
Ch.	MHz	Side	Test Position	Figure No./Note	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
9662	1852.4	R	Cheek	Fig.9	22.17	23	0.111	0.13	0.177	0.21	0.04

Table I.2-10: SAR Values (WCDMA 1900 MHz Band - Body)

		А	mbient To	emperature	e: 22.9 °C	Liquid Ter	mperature:	22.5°C		
Fred	quency	Toot	Figure	Conducte	May tung up	Measured	Reported	Measured	Reported	Power
	· ,	Test	No./Not	d Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
Ch.	MHz	Position	е	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
9938	1907.6	Bottom	Fig.10	22.20	23	0.590	0.71	1.16	1.39	-0.05

Note1: The distance between the EUT and the phantom bottom is 10mm.



Table I.2-11: SAR Values (LTE Band2 - Head)

			Amb	ient Temp	perature	: 22.9 °C	Liquid	Temperatu	re: 22.5°C			
Frequ	ency			T1	Figure	Conducted	Max.	Measured	Reported	Measured	Reported	Power
Ch.	MHz	Mode	Side	Test Position	No./ Note	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
19100	1900	1RB_Low	L	Cheek	Fig.11	22.73	23	0.103	0.11	0.166	0.18	0.05

Note1: The LTE mode is QPSK_20MHz.

Table I.2-12: SAR Values (LTE Band2 - Body)

	Ambient Temperature: 22.9 °C Liquid Temperature: 22.5 °C														
Frequ	ency	Mode	Test	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power				
Ch.	MHz	Widde	Position	No./ Note	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)				
19100	1900	1RB_Low	Bottom	Fig.12	22.73	23	0.573	0.61	1.12	1.19	-0.09				
18900	1880	1RB_High	Bottom	/	22.69	23	0.497	0.53	1.02	1.10	-0.10				
18700	1860	1RB_High	Bottom	1	22.69	23	0.494	0.53	1.01	1.08	-0.08				

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table I.2-13: SAR Values(LTE Band4 - Head)

			Ambier	nt Tempei	ature: 22	2.9 °C	Liquid	Temperatur	e: 22.5°C			
Frequ	uency MHz	Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Powe r Drift (dB)
20300	1745	1RB_High	L	Cheek	Fig.13	23.83	24	0.141	0.15	0.216	0.22	-0.10

Note1: The LTE mode is QPSK_20MHz.

Table I.2-14: SAR Values (LTE Band4 - Body)

		P	Ambient Te	emperatur	e: 22.9 °C	Liquid	d Temperat	ure: 22.5°C						
Frequ	uency		Toet	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power			
Ch.	MHz	Mode	Test Position	No./Note	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)			
20300	1745	1RB_High	Bottom	Fig.14	23.83	24	0.625	0.65	1.18	1.23	-0.14			
20175	1732.5	1RB_High	Bottom	1	23.89	24	0.521	0.53	1.04	1.07	-0.05			
20050	1720	1RB_High	Bottom	/	23.93	24	0.497	0.51	0.993	1.01	-0.06			

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.



Table I.2-15: SAR Values(LTE Band5 - Head)

			Amb	ient Tem	perature	: 22.9°C	Liquid	Temperatur	e: 22.5°C			
Frequ	ency			To et	F:	Conducted	Max.	Measured	Reported	Measured	Reported	Power
Ch.	MHz	Mode	Side	Test Position	Figure No.	Power (dBm)	tune-up Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g)(W/kg)	Drift (dB)
20600	844	1RB_High	L	Cheek	Fig.15	23.74	24.5	0.203	0.24	0.263	0.31	-0.06

Note1: The LTE mode is QPSK_10MHz.

Table I.2-16: SAR Values (LTE Band5-Body)

			Ambient 7	Гетрега	ture: 22.9 °C	C Liqui	d Temperat	ture: 22.5°C	C		
Fregu	encv		Test	Ciauro	Conducted	Max.	Measured	Reported	Measured	Reported	Power
. ,		Mode		Figure	Power	tune-upPo	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
Ch.	MHz		Position	No.	(dBm)	wer (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
20600	844	1RB_High	Left	Fig.16	23.74	24.5	0.265	0.32	0.384	0.46	-0.13

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table I.2-17: SAR Values(LTE Band7 - Head)

							•					
			Ambie	ent Tempe	rature: 2	22.9°C	Liquid	l Temperatu	re: 22.5°C			
Frequ	iency			Test	Figure	Conduct ed	Max. tune-up	Measured	Reported	Measured	Reported	Power
Ch.	MHz	Mode	Side	Position	No./ Note	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g)(W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
21350	2560	1RB_High	L	Cheek	Fig.17	22.88	23.5	0.014	0.02	0.024	0.03	0.09

Note1: The LTE mode is QPSK_20MHz.

Table I.2-18: SAR Values (LTE Band7 - Body)

				<u> </u>	0. 0 , tu		2 41.41 2 3				
			Ambient Te	mperatur	e: 22.9 °C	Liqui	d Temperat	ure: 22.5°C			
Frequ	uency MHz	Mode	Test Position	Figure No./Not e	Conducte d Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
21350	2560	1RB_High	Bottom	Fig.18	22.88	23.5	0.247	0.28	0.540	0.62	-0.01

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.



Table I.2-19: SAR Values(LTE Band12 - Head)

			Ambie	ent Tempe	erature: 2	2.9°C	Liquid	Temperatui	re: 22.5°C			
Frequ Ch.	uency MHz	Mode	Sid e	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
23095	707.5	1RB_High	L	Cheek	Fig.19	23.50	24	0.123	0.14	0.155	0.17	-0.04

Note1: The LTE mode is QPSK_10MHz.

Table I.1-20: SAR Values (LTE Band12 - Body)

		A	Ambient Te	mperatu	ıre: 22.9°C	Liquid Temperature: 22.5°C					
Freque	ency	Mode	Test	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power
Ch.	MHz	Wiodc	Position	No./N ote	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
23095	707.5	1RB_High	Left	Fig.20	23.50	24	0.189	0.21	0.265	0.30	0.00

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

I.3 WLAN Evaluation

Head Evaluation

Table I.3-1: SAR Values (WLAN - Head) - 802.11b (Full SAR)

	Ambient Temperature: 22.9 °C Liquid Temperature: 22.5 °C										
Frequ	ency		Test	Eiguro	Conducted	May tung up	Measured	Reported	Measured	Reported	Power
		Side	Position	Figure No.	Power	Max. tune-up Power (dBm)	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
MHz	Ch.		Position	INO.	(dBm)	Power (dbill)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
2412	1	Right	Tilt	Fig.21	17.51	19	0.168	0.24	0.367	0.52	-0.15

Table I.3-2: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

		Ambier	nt Temperat	ure: 22.9 °C	Liquid Temperature: 22.5°C			
Freque	ency	Side	Test	Actual duty	maximum	Reported SAR	Scaled reported SAR	
MHz	Ch.	0.00	Position	factor	duty factor	(1g) (W/kg)	(1g) (W/kg)	
2412	1	Right	Tilt	99.52%	100%	0.52	0.52	

Table I.3-3: SAR Values (WLAN - Head) – 802.11a (Full SAR)

 14515 110 01 07 11 1414 1544) - 0021114 (1 411 07 11)											
Ambient Temperature: 22.9 °C Liquid Temperature: 22.5 °C											
Freque	ency		Test	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power
•		Side	iest	riguie	Power	iviax. turie-up	SAR(10a)	SAR(10g)	SAR(1a)	SAR(1g)	Drift
MHz	Ch.		Position	No.	(dDm)	Power (dBm)	(\A//ka)	` ",	(\A//ka)	ν ο,	(AD)
					(dBm)		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
5825	165	Right	Tilt	Fig.22	15.66	16.5	0.061	0.07	0.196	0.24	0.09



Table I.3-4: SAR Values (WLAN - Head) – 802.11b 1Mbps (Scaled Reported SAR)

		Ambier	nt Temperat	ure: 22.9 °C	Liquid Temperature: 22.5°C			
Frequ	ency	Side	Test	Actual duty	maximum	Reported SAR	Scaled reported SAR	
MHz	Ch.	0.00	Position	factor	duty factor	(1g) (W/kg)	(1g) (W/kg)	
5825	165	Right	Tilt	98.47%	100%	0.24	0.24	

Body Evaluation

Table I.3-5: SAR Values (WLAN - Head) - 802.11b (Full SAR)

		A	Ambient [*]	Temperature	e: 22.9°C	Liquid Temperature: 22.5°C				
Frequ	ency	Tool	F:	Conducted	Max.	Measured	Reported	Measured	Reported	Power
MHz	Ch.	Test Position	Figure No.	Power (dBm)	tune-up Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
2412	1	Rear	Fig.23	17.51	19	0.091	0.13	0.187	0.26	0.18

Table I.3-6: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

	Ambient Temperature: 23.0 °C Liquid Temperature: 22.5 °C									
Frequency		Test	Actual duty	maximum duty	Reported SAR	Scaled reported SAR				
MHz	Ch.	Position	factor	factor	(1g) (W/kg)	(1g) (W/kg)				
2412	1	Rear	99.52%	100%	0.26	0.26				

Table I.3-7: SAR Values (WLAN - Head) - 802.11a (Full SAR)

		•	4510 110	Or are vare	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	i iioaa,	0021114 (1	u.i. 0,,		
Ambient Temperature: 22.9 °C Liquid Temperature: 22.5 °C										
Frequ	ency	Test	Figure	Conducted	Max.	Measured	Reported	Measured	Reported	Power
MHz	Ch.	Position	No.	Power (dBm)	tune-up Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
5825	165	Тор	Fig.24	15.66	16.5	0.066	0.08	0.164	0.20	0.01

Table I.3-8: SAR Values (WLAN - Head) – 802.11a (Scaled Reported SAR)

	Ambient Temperature: 23.0 °C Liquid Temperature: 22.5 °C									
Frequency		Test	Actual duty	maximum duty	Reported SAR	Scaled reported SAR				
MHz	Ch.	Position	factor	factor	(1g) (W/kg)	(1g) (W/kg)				
5825	165	Тор	98.47%	100%	0.20	0.20				



I.4 Reported SAR Comparison

Exposure Configuration	Technology Band	Reported SAR 1g (W/Kg): spot check	Reported SAR 1g (W/Kg): original
	GSM 850	0.21	0.22
	PCS 1900	0.11	0.11
	WCDMA850	0.35	0.29
	WCDMA1700	0.24	0.21
Hood	WCDMA1900	0.21	0.19
Head (Separation Distance	LTE Band 2	0.18	0.20
(Separation Distance 0mm)	LTE Band 4	0.22	0.24
Offiliti)	LTE Band 5	0.31	0.33
	LTE Band 7	0.03	0.02
	LTE Band 12	0.17	0.34
	WLAN 2.4 GHz	0.52	0.63
	WLAN 5 GHz	0.24	0.34
	GSM 850	0.34	0.26
	PCS 1900	0.82	1.08
	WCDMA850	0.52	0.38
	WCDMA1700	1.22	1.22
Liotanat	WCDMA1900	1.39	1.40
Hotspot (Separation Distance	LTE Band 2	1.19	1.10
(Separation Distance	LTE Band 4	1.23	1.19
10mm)	LTE Band 5	0.46	0.44
	LTE Band 7	0.62	0.89
	LTE Band 12	0.30	0.51
	WLAN 2.4 GHz	0.26	0.33
	WLAN 5 GHz	0.20	0.22

Note: The spot check results of Head for WCDMA850 / WCDMA1700 / WCDMA1900 / LTE Band12 and body for GSM850 / WCDMA850 / LTE B2 / LTE B4 / LTE B5 are larger than the original results, so these values replace the original results and others are quoted.



I.5 Graph Results of spotcheck

850 Left Cheek Low

Date: 2017-4-13

Electronics: DAE4 Sn1331 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 824.2 MHz; $\sigma = 0.889$ mho/m; $\epsilon r = 42.14$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 – SN3846ConvF(9.33, 9.33, 9.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.219 W/kg

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

Reference Value = 4.273 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.155 W/kgMaximum value of SAR (measured) = 0.219 W/kg

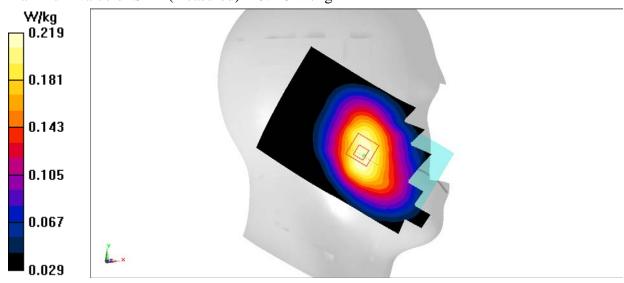


Fig.1 850MHz



850 Body Rear Low

Date: 2017-4-13

Electronics: DAE4 Sn1331 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 824.2 MHz; $\sigma = 0.975$ mho/m; $\epsilon r = 56.83$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:2

Probe: EX3DV4 – SN3846ConvF(9.52, 9.52, 9.52)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.366 W/kg

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

Reference Value = 18.78 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.410 W/kg

SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.265 W/kg

Maximum value of SAR (measured) = 0.361 W/kg

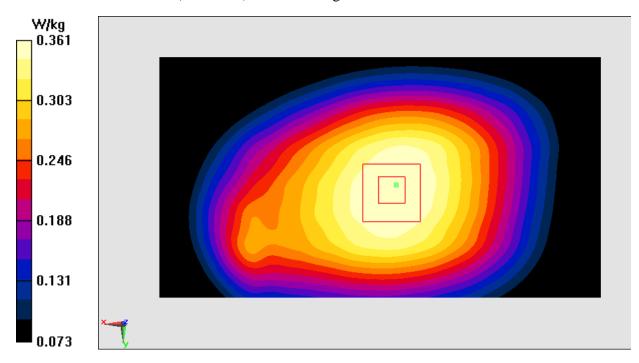


Fig.2 850 MHz



1900 Left Cheek Low

Date: 2017-4-15

Electronics: DAE4 Sn1331 Medium: Head 1900 MHz

Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma = 1.354$ mho/m; $\epsilon r = 40.59$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GRPS Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: EX3DV4– SN3846 ConvF(7.89, 7.89, 7.89)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.106 W/kg

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

Reference Value = 2.529 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.140 W/kg

SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.107 W/kg

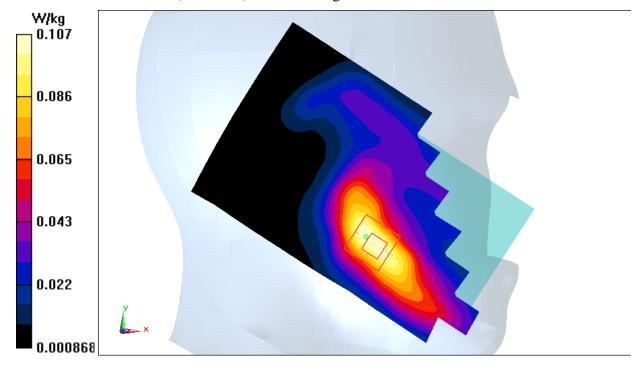


Fig.3 1900 MHz



1900 Body Bottom Low

Date: 2017-4-15

Electronics: DAE4 Sn1331 Medium: Body 1900 MHz

Medium parameters used: f = 1850.2 MHz; $\sigma = 1.496 \text{ mho/m}$; $\epsilon r = 54.58$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1850.2 MHz Duty Cycle: 1:2

Probe: EX3DV4– SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.906 W/kg

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

Reference Value = 19.35 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.371 W/kg

Maximum value of SAR (measured) = 0.886 W/kg

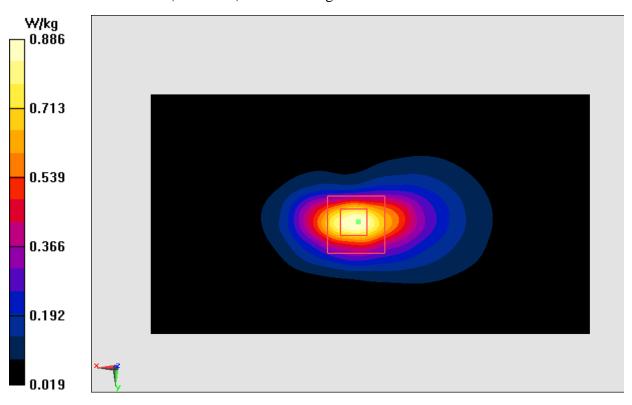


Fig.4 1900 MHz



WCDMA 850 Left Cheek High

Date: 2017-4-13

Electronics: DAE4 Sn1331 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 846.6 MHz; $\sigma = 0.914$ mho/m; $\epsilon r = 41.02$; $\rho = 1000$

 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(9.33, 9.33, 9.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.373 W/kg

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

Reference Value = 5.902 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.262 W/kg

Maximum value of SAR (measured) = 0.372 W/kg

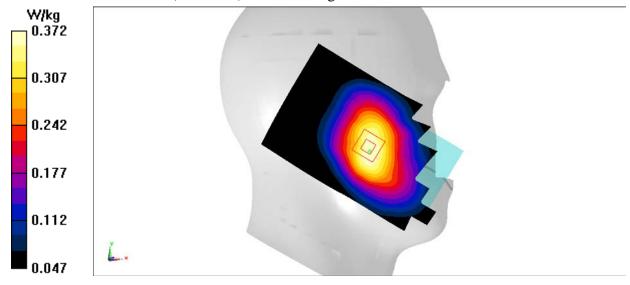


Fig.5 WCDMA 850



WCDMA 850 Body Left High

Date: 2017-4-13

Electronics: DAE4 Sn1331 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 846.6 MHz; $\sigma = 1.002$ mho/m; $\epsilon r = 55.32$; $\rho = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 55.32$; $\epsilon = 1.002$ mho/m; $\epsilon r = 1.002$ mho/m;

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Probe: EX3DV4 – SN3846ConvF(9.52, 9.52, 9.52)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.585 W/kg

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

Reference Value = 22.53 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.725 W/kg

SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 0.589 W/kg

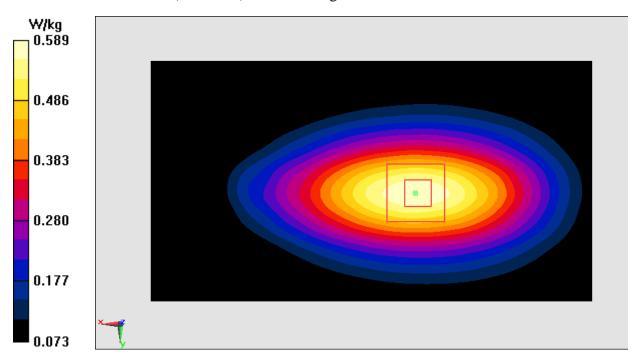


Fig.6 WCDMA 850



WCDMA 1700 Left Cheek High

Date: 2017-4-14

Electronics: DAE4 Sn1331 Medium: Head 1750 MHz

Medium parameters used (interpolated): f = 1752.6 MHz; $\sigma = 1.382$ mho/m; $\epsilon r = 40.62$; $\rho = 1.382$ mho/m; $\epsilon r = 40.62$; $\epsilon r = 40.62$;

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1750 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN3846 ConvF(8.16, 8.16, 8.16)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.276 W/kg

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

Reference Value = 5.071 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.244 W/kg

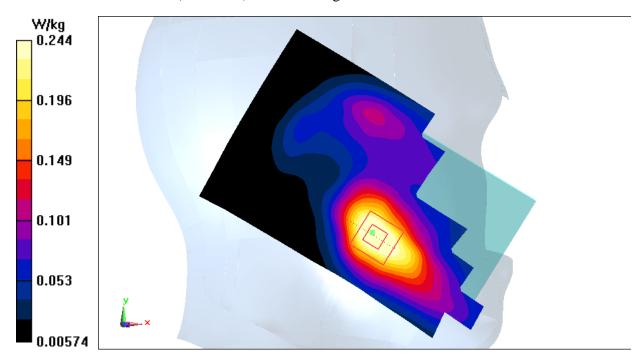


Fig.7 WCDMA1700



WCDMA 1700 Body Bottom High

Date: 2017-4-14

Electronics: DAE4 Sn1331 Medium: Body 1750 MHz

Medium parameters used: f = 1752.6 MHz; $\sigma = 1.516 \text{ mho/m}$; $\epsilon r = 53.14$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4- SN3846 ConvF(7.90, 7.90, 7.90)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.34 W/kg

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

Reference Value = 24.66 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.563 W/kg

Maximum value of SAR (measured) = 1.33 W/kg

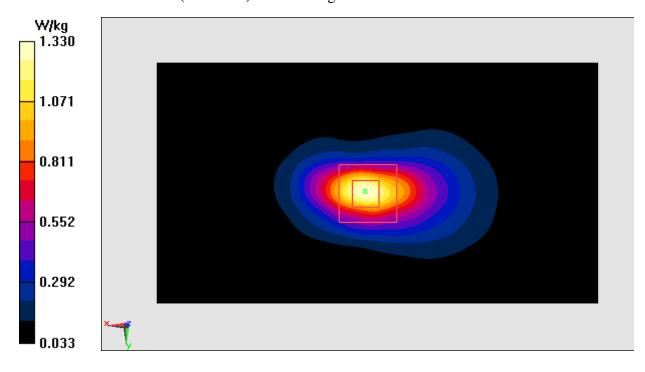


Fig.8 WCDMA1700



WCDMA 1900 Right Cheek Low

Date: 2017-4-15

Electronics: DAE4 Sn1331 Medium: Head 1900 MHz

Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.355$ mho/m; $\epsilon r = 40.54$; $\rho = 1.355$ mho/m; $\epsilon r = 40.54$; $\epsilon r = 40.54$;

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN3846 ConvF(7.89, 7.89, 7.89)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.224 W/kg

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

Reference Value = 4.083 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.266 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.111 W/kg

Maximum value of SAR (measured) = 0.207 W/kg

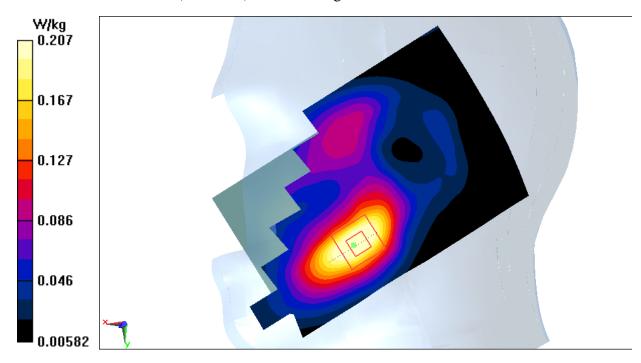


Fig.9 WCDMA1900



WCDMA 1900 Body Bottom High

Date: 2017-4-15

Electronics: DAE4 Sn1331 Medium: Body 1900 MHz

Medium parameters used (interpolated): f = 1907.6 MHz; $\sigma = 1.542$ mho/m; $\epsilon r = 52.98$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN3846 ConvF(7.57, 7.57, 7.57)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.46 W/kg

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

Reference Value = 23.53 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.590 W/kg

Maximum value of SAR (measured) = 1.45 W/kg

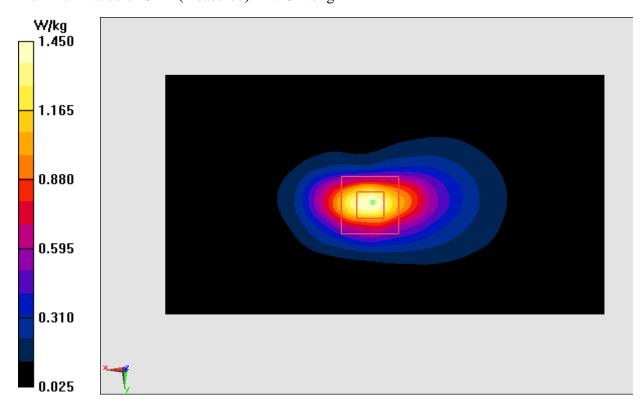


Fig.10 WCDMA1900



LTE Band2 Left Cheek High with QPSK_20M_1RB_Low

Date: 2017-4-15

Electronics: DAE4 Sn1331 Medium: Head 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.390 \text{ mho/m}$; $\epsilon r = 39.55$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band2Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4- SN3846 ConvF(7.89, 7.89, 7.89)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.199 W/kg

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

Reference Value = 3.299 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.166 W/kg; SAR(10 g) = 0.103 W/kg

Maximum value of SAR (measured) = 0.197 W/kg

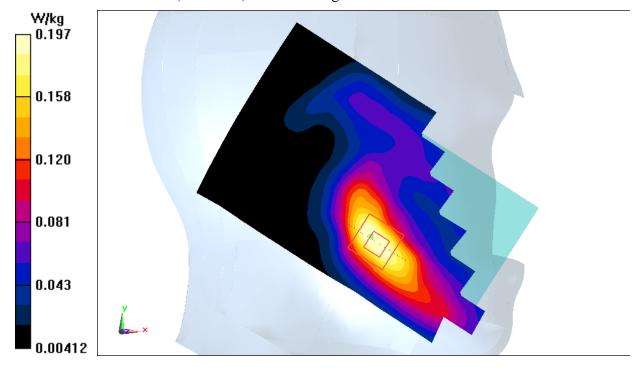


Fig.11 LTE Band2



LTE Band2 Body Bottom High with QPSK_20M_1RB_Low

Date: 2017-4-15

Electronics: DAE4 Sn1331 Medium: Body 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.536 \text{ mho/m}$; $\epsilon r = 53.19$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band2 Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4- SN3846 ConvF(7.57, 7.57, 7.57)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 23.37 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.573 W/kg

Maximum value of SAR (measured) = 1.39 W/kg

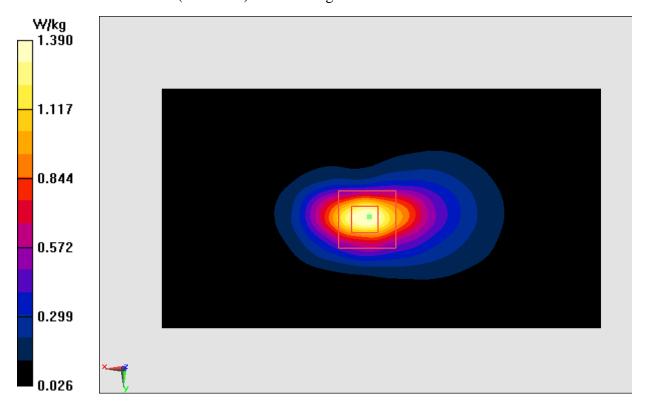


Fig.12 LTE Band2



LTE Band4 Left Cheek High with QPSK_20M_1RB_High

Date: 2017-4-14

Electronics: DAE4 Sn1331 Medium: Head 1750 MHz

Medium parameters used f = 1745 MHz; σ = 1.376 mho/m; ϵ r = 40.80; ρ = 1000 kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band4 Frequency: 1745MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846ConvF(8.16, 8.16, 8.16)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.264 W/kg

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

Reference Value = 4.284 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.250 W/kg

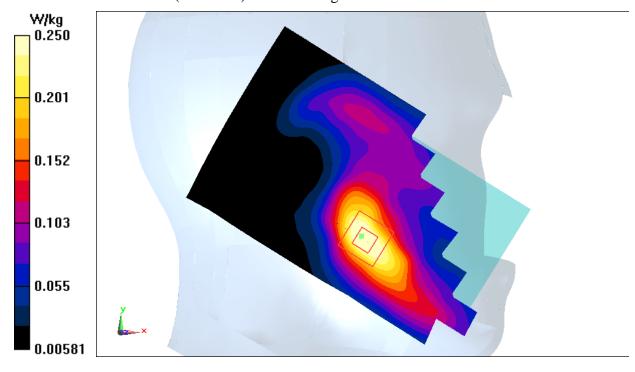


Fig.13 LTE Band4



LTE Band4 Body Bottom High with QPSK_20M_1RB_High

Date: 2017-4-14

Electronics: DAE4 Sn1331 Medium: Body 1750 MHz

Medium parameters used: f = 1745 MHz; $\sigma = 1.510$ mho/m; $\epsilon r = 53.37$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band4 Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846ConvF(7.90, 7.90, 7.90)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.50 W/kg

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

Reference Value = 26.17 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.625 W/kg

Maximum value of SAR (measured) = 1.47 W/kg

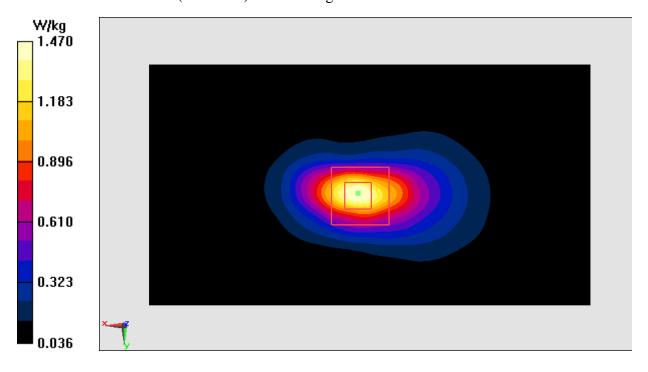


Fig.14 LTE Band4



LTE Band5 Left Cheek High with QPSK_10M_1RB_High

Date: 2017-4-13

Electronics: DAE4 Sn1331 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 844 MHz; $\sigma = 0.911$ mho/m; $\epsilon r = 41.15$; $\rho = 1000$

 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band5 Frequency: 844 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(9.33, 9.33, 9.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.296 W/kg

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

Reference Value = 5.549 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 0.288 W/kg

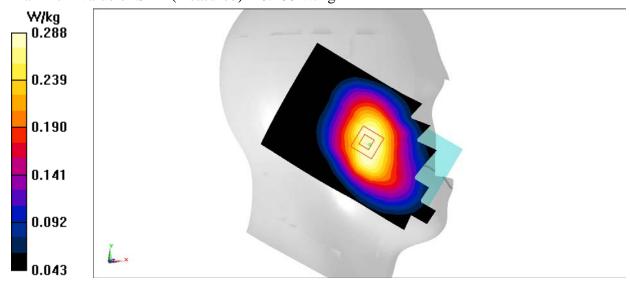


Fig.15 LTE Band5



LTE Band5 Body Left High with QPSK_10M_1RB_High

Date: 2017-4-13

Electronics: DAE4 Sn1331 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 844 MHz; $\sigma = 0.999$ mho/m; $\epsilon r = 55.50$; $\rho = 1000$

 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band5 Frequency: 844 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(9.52, 9.52, 9.52)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.446 W/kg

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

Reference Value = 19.50 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.539 W/kg

SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.265 W/kg

Maximum value of SAR (measured) = 0.440 W/kg

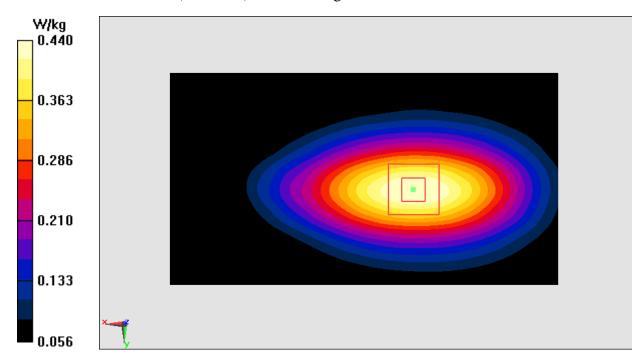


Fig.16 LTE Band5



LTE Band7 Left Cheek High with QPSK_20M_1RB_High

Date: 2017-4-17

Electronics: DAE4 Sn1331 Medium: Head2600 MHz

Medium parameters used: f = 2560 MHz; $\sigma = 1.936 \text{mho/m}$; $\epsilon r = 40.18$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band7Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4- SN3846 ConvF(7.12, 7.12, 7.12)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0309 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0470 W/kg

SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.014 W/kg

Maximum value of SAR (measured) = 0.0283 W/kg

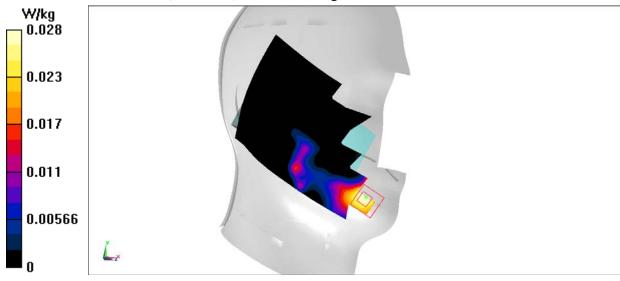


Fig.17 LTE Band7



LTE Band7 Body Bottom High with QPSK_20M_1RB_High

Date: 2017-4-17

Electronics: DAE4 Sn1331 Medium: Body2600 MHz

Medium parameters used: f = 2560 MHz; $\sigma = 2.105 \text{ mho/m}$; $\epsilon r = 52.40$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band7 Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4- SN3846 ConvF(7.25, 7.25, 7.25)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.709 W/kg

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

Reference Value = 5.205 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.540 W/kg; SAR(10 g) = 0.247 W/kg

Maximum value of SAR (measured) = 0.692 W/kg

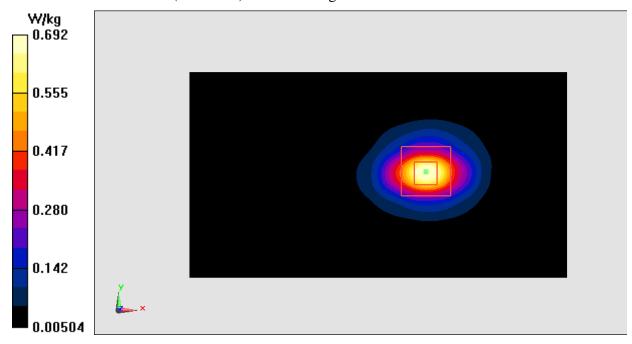


Fig.18 LTE Band7



LTE Band12 Left Cheek Middle with QPSK_10M_1RB_High

Date: 2017-4-12

Electronics: DAE4 Sn1331 Medium: Head750 MHz

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.847$ mho/m; $\epsilon r = 44.06$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band12Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN3846 ConvF(9.65, 9.65, 9.65)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.171 W/kg

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

Reference Value = 5.344 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.123 W/kg

Maximum value of SAR (measured) = 0.168 W/kg

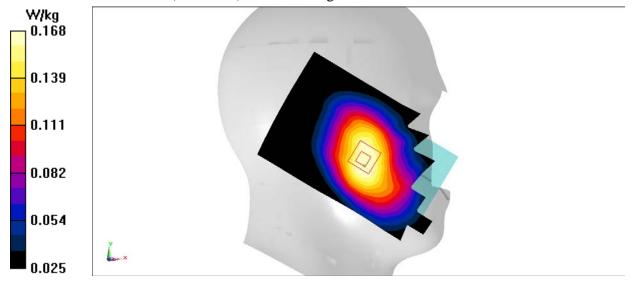


Fig.19 LTE Band12



LTE Band12 Body Left Middle with QPSK_10M_1RB_High

Date: 2017-4-12

Electronics: DAE4 Sn1331 Medium: Body750 MHz

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.897$ mho/m; $\epsilon r = 58.49$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band12Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN3846 ConvF(9.96, 9.96, 9.96)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.298 W/kg

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

Reference Value = 17.45 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.299 W/kg

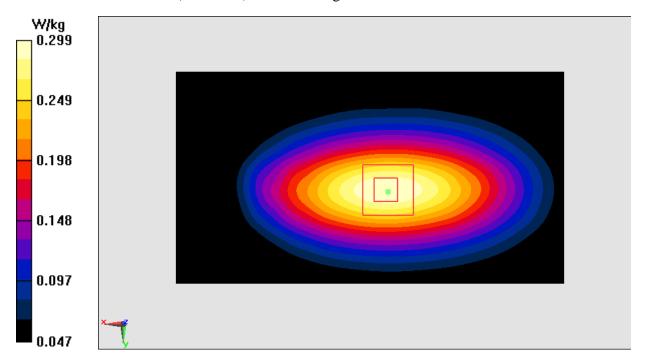


Fig.20 LTE Band12



Wifi 802.11b Right Tilt Channel 1

Date: 2017-4-16

Electronics: DAE4 Sn1331 Medium: Head 2450 MHz

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.784$ mho/m; $\varepsilon_r = 39.05$; $\rho = 1000$

 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WLan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4-SN3846 ConvF(7.22, 7.22, 7.22)

Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.588 W/kg

Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.71 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.876 W/kg

SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.496 W/kg

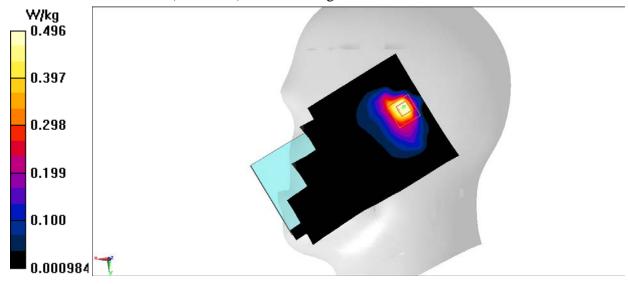


Fig.21 2450 MHz



Wifi 802.11b Body Rear Channel 1

Date: 2017-4-16

Electronics: DAE4 Sn1331 Medium: Body 2450 MHz

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.966$ mho/m; $\varepsilon_r = 53.36$; $\rho = 1000$

 kg/m^3

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WLan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.31, 7.31, 7.31)

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.258 W/kg

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

Reference Value = 2.619 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.372 W/kg

SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.242 W/kg

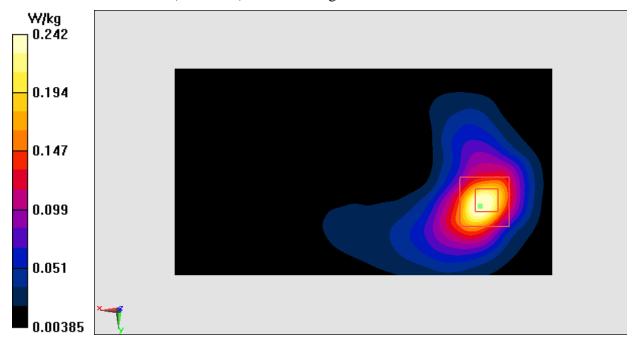


Fig.22 2450 MHz



Wifi 802.11a Right Tilt Channel 165

Date: 2017-4-18

Electronics: DAE4 Sn1331 Medium: Head 5 GHz

Medium parameters used: f = 5825 MHz; $\sigma = 5.181$ mho/m; $\varepsilon_r = 35.51$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WLan 5G Frequency: 5825 MHz Duty Cycle: 1:1

Probe: EX3DV4- SN3846 ConvF(4.95, 4.95, 4.95)

Area Scan (101x171x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.327 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.117 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.061 W/kg

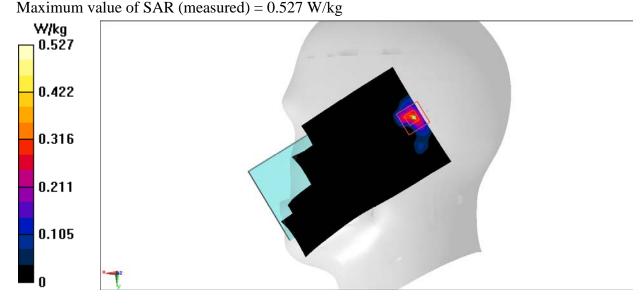


Fig.23 5GHz



Wifi 802.11a Top Channel 165

Date: 2017-4-18

Electronics: DAE4 Sn1331 Medium: Body5 GHz

Medium parameters used: f = 5825 MHz; $\sigma = 5.598$ mho/m; $\varepsilon_r = 47.87$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WLan 5G Frequency: 5825 MHz Duty Cycle: 1:1

Probe: EX3DV4- SN3846 ConvF(4.53, 4.53, 4.53)

Area Scan (141x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.321 W/kg

Zoom Scan (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.686 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.678 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.066 W/kgMaximum value of SAR (measured) = 0.375 W/kg

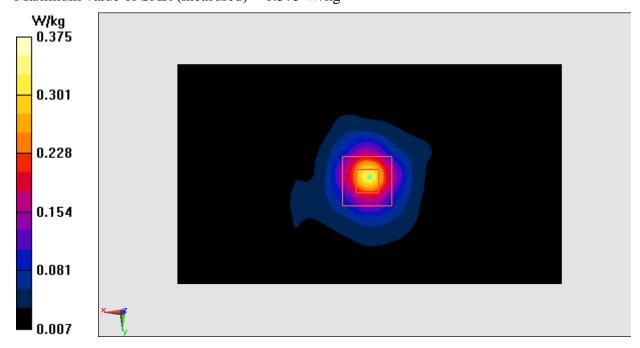


Fig.24 5GHz



ANNEX J Accreditation Certificate





China National Accreditation Service for Conformity Assessment LABORATORY ACCREDITATION CERTIFICATE (Registration No. CNAS L0570)

Telecommunication Technology Labs,
Academy of Telecommunication Research, MIIT

No.52, Huayuan North Road, Haidian District, Beijing, China

No.51, Xueyuan Road, Haidian District, Beijing, China

TCL International E City, No. 1001 Zhongshanyuan Road, Nanshan

District, Shenzhen, Guangdong Province

is accredited in accordance with ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake testing and calibration service as described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule form an integral part of this certificate.

Date of Issue: 2015-11-13
Date of Expiry: 2017-06-19

Date of Initial Accreditation: 1998-07-03

Signed on behalf of China National Accreditation Service for Conformity Assessment



China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC MRA). The validity of the certificate can be checked on CNAS website at http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml