

Test report No.: 11143373S-C Page : 1 of 116 **Issued date** : April 25, 2016 Revised date : July 13, 2017 (-r01) FCC ID : W2Z-01000007

SAR TEST REPORT

Test Report No.: 11143373S-C

Applicant : FUJIFILM Corporation

Type of Equipment : Flat Panel Sensor

Model No. RIC 24C (*. With built-in wireless LAN module)

FCC ID W2Z-01000007

Test Standard : FCC 47CFR §2.1093

Test Result Complied

Highest Reported SAR(1g) Value	SAR type	Operation Band [MHz]	Remarks
0.16 W/kg	Body	2412~2462	(DTS) Antenna#0, 2417MHz, 11g(6Mbps), Output power: 18.52 dBm
0.18 W/kg	Head	2412~2402	(DTS) Antenna#0, 2417MHz, 11g(6Mbps), Output power: 18.52 dBm
0.18 W/kg	Body	5180~5320, 5500~	(UNII) Antenna#0, 5500 MHz, 11a (6Mbps), Output power: 15.99 dBm
0.19 W/kg	Head	5700, 5745~5825	(UNII) Antenna#0, 5500 MHz, 11a (6Mbps), Output power: 15.99 dBm

- The highest reported SAR (1g) value across all exposure condition is "0.19 W/kg" = grant listing.

 Co-location was not considered, because the SLLSR (SAR to peak location separation ratio) was smaller than 0.04.
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- The results in this report apply only to the sample tested.
- This sample tested is in compliance with the limits of the above regulation.
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- The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.
- This test report covers Radio technical requirements. It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)

Date of test: February 3~23, 2016

Test engineer:

Engineer, Consumer Technology Division

Approved by:

Toyokazu Imamura

Leader, Consumer Technology Division



The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan. There is no testing item of "Non-accreditation".

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REVISION HISTORY

Revision	Test report No.	Date	Page revised	Contents
Original	11143373S-C	April 25, 2016	-	-
-r01	11143373S-C	July 13, 2017	p1,2,3	(p3) Corrected writing error.

*. By issue of new revision report, the report of an old revision becomes invalid.

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SECTION 1: Customer information

Company Name	FUJIFILM Corporation
Address	9-7-3 Akasaka Minato-ku, Tokyo 107-0052, Japan
Telephone Number	81-3-6271-1654
Facsimile Number	81-3-6271-1189
Contact Person	Takao Ozaki

SECTION 2: Equipment under test (EUT)

2.1 Identification of EUT

Type of Equipment	Flat Panel Sensor
Model Number	RIC 24C
Serial Number	#001
Condition of EUT	Engineering prototype (*. Not for sale. This sample is equivalent to mass-production items)
Receipt Date of Sample	February 1, 2016 (*. No modification by the Lab.) (*. The Wireless LAN Module (model: SX-PCEAN(FF-E))
	that had been measured the SAR test reference power, was installed into the EUT by the Lab.)
Country of Mass-production	Taiwan
Rating	DC8V
Category Identified	Portable device (*. Since EUT may contact and/or very close to a human body and head during Wi-Fi operation, the partial-body
	SAR (1g) shall be observed.)
SAR Accessary	Any body-worn accessory was not applied.
	Model: RIC 24C (referred to as the EUT in this report) is a Flat Panel Sensor with a wireless function and
-	used in the hospitality environment.
Feature of EUT, SAR	Since the EUT is the medical device, this only used under the guidance of a doctor or a qualified person. The
tested consideration	possibility of the maximum RF human exposure is only a body/head of the patient who comes in contact directly
	on the front surface side (patient side) of the EUT. Therefore, the SAR test was only considered to apply to the
	front surface (patient side) of the EUT.

2.2 Product Description (Wireless LAN module, antenna)

2.2 Product Descri	puon (WIFEIESS LAIN	module	, antenna)			
Equipment type					nsceiver		
Model				SX-PCI	EAN(FF-E)		
European are bound		2.4GHz band			5GHz ban	ıd	
Frequency band		.4GHZ Danu	-	U-NII-1 (W52)	U-NII-2A (W53)	U-NII-2C (W56)	U-NII-3 (W58)
	11b,g,	2412-2462	11a,	5180-5240	5260-5320	5500-5700	5745-5825
Frequency of operation	n(20HT)	(,	n(20HT)	(*.ch.36-48)	(*.ch.52-64)	(*.ch.100-140)	(*.ch.149-165)
(MHz) (*.ch.: channel)	n(40HT)	2422-2452	n(40HT)	5190-5230	5270-5310	5510-5670	5755, 5795
	` ′	(*.ch.3-9)	11(10111)	(*.ch.38-46)	(*.ch.54-62)	(*.ch.102-134)	(*.ch.151,159)
Channel spacing (MHz)		,g,n(20HT),n(40HT))			20 (11b,g,n(20HT)) / 40) (11n(40HT))	
Bandwidth (MHz)		(11b,g,n(20HT)) 40 (11n(40HT))		,	20 (11b,g,n(20HT)) / 40) (11n(40HT))	
	,	+0 (111(+0111))		DSSS-DRPSK 1	DOPSK, CCK (11b),		
Type of modulation			OFDM: B		M, 64QAM (11g,a,n(2	OHT) n(40HT))	
		13.5 ±2.5	OI BINI B				
1	11b	(*.ch.1-11, 1-11Mbps)	!	12.5±2.5	12.5±2.5	15.0±2.5	15.0±2.5
		17.0 ±2.5	11a:	(*.ch.36-48,	(*.ch.52-64,	(*.ch.100-140,	(*.ch.149-165,
	11g	(*.ch.2, 6-36Mbps)	i	6-54Mbps)	6-54Mbps)	6-48Mbps)	6-48Mbps)
Transmit power (typical,		14.5 ±2.5	,	11.0±2.5	11.0±2.5	13.5±2.5	13.5±2.5
maximum channel and data rate)	n(20HT)	14.5 ±2.5 (*.ch.2, MCS0-4/8-12))	n(20HT)	(*.ch.36-48,	(*.ch.52-64,	(*.ch.100-140,	(*.ch.149-165,
and tolerance (as manufacture		(*.cn.2, IVICS0-4/8-12))		MCS0-6/8-14)	MCS0-6/8-14)	MCS0-4/8-12)	MCS0-4/8-12)
variation)		13.5 ±2.5	1	11.0±2.5	11.0±2.5	11.0±2.5	11.0±2.5
(dBm) (*.ch.: channel)	n(40HT)	(*.ch.4, MCS0-4/8-12)	n(40HT)	(*.ch.46,	(*.ch.54,	(*.ch.102-134,	(*.ch.151,159,
		` ' '		MCS0-7/8-15)	MCS0-7/8-15)	MCS0-5/8-13)	MCS0-5/8-13)
						. *. 3dBm is added to M	IIMO power.
					aximum output power	which may possible.	
D 1		easured Tx output pow					
Power supply	DC 3.3	V (*. DC3.3V is suppli	ed from the	main unit via constant	t voltage circuit.)		
Antenna		antenna #0 (Botto	m, short-s	ide-ant#0)	anten	na #1 (Side, long-side	e-ant#1)
	2 pcs. (*	. Separation distance	between th	e antenna #0 and the	antenna #1: approx.3	15 mm)	
Antenna quantity		One selected Tx anter			**		
	11n(20H	T),n(40HT): One select	ed Tx anter	na operation (MCS0	~7) / Two Tx antenna	operation (MCS8~13))
Antenna model		113Y120216 (ca	ble length	: 300 mm)	113Y12	20216 (cable length:	300 mm)
Antenna type / connector type		Mo	onopole ant	enna / Connector; PC	CB side: U.FL, Anten	na side: soldered	•
Antenna gain (max.peak)		-7.3 dBi (2.4GH	z), -2.3 dB	(5GHz)	-6.5 dl	Bi (2.4GHz), -0.3 dBi	(5GHz)
(*.including cable loss)		(*.installed in	,,	` '		installed into the platfo	'

 ^{(*} including cable loss)
 (* installed into the platform)
 (* installed into the platform)

 *. The EUT do not use the special transmitting technique such as "beam-forming" and "time-space code diversity."

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2.3 Tx output power (typical) specification (antenna port terminal conducted)

														Tar	get Po	ower [dBm]	(aver	age)										
			11	b					1	1g											11n(2	(TH0							
[MHz]	CH	1	2	5.5	11	6	9	12	18	24	36	48	54	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
2412	1		13.5				13.5	13.5	13.5	13.5	13.5	13.5	13.5	10.5	10.5	10.5	10.5	10.5		10.5		13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
2417	2		13.5				_==:	17			17		15		14.5	14.5	14.5	14.5	14	13.5	13	17.5	17.5	17.5	17.5	17.5	17	16.5	16
2422	3		13.5													14				13		_17_	17	17	17	17	16.5	16	15.5
2427	4	13.5	13.5	13.5	13.5	16.5	16.5	16.5	16.5	16.5	16.5	15.5	15	13.5	13.5	13.5	13.5	13.5	13	12.5	12	16.5	16.5	16.5	16.5	16.5	16	15.5	15
2432	5	13.5	13.5	13.5	13.5						16									12.5		16	16	16	16	16	15.5	15.5	15
2437	6	13.5	13.5	13.5	13.5	16	16	16	16	16	16	15.5	15	12.5	12.5	12.5	12.5	12.5	12	12	11.5	15.5	15.5	15.5	15.5	15.5	15	15	14.5
2442	7	13.5	13.5	13.5	13.5	15.5	15.5	15.5	15.5	15.5	15.5	15	15	12	12	12	12	12	12	11.5	11.5	15	15	15	15	15	15	14.5	14.5
2447	8	13.5	13.5	13.5	13.5	15.5	15.5	15.5	15.5	15.5	15.5	15	15	11.5	11.5	11.5	11.5	11.5	11.5	11	11	14.5	14.5	14.5	14.5	14.5	14.5	14	14
2452	9	13.5	13.5	13.5	13.5	15	15	15	. 15	15	15	15	15	11	11	- 11	11	11	11	11	11	14	14	14	14	14	14	14	14
2457	10	13.5	13.5	13.5	13.5	15	15	15	15	15	15	15	15	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
2462	11	13.5	13.5	13.5	13.5	15	15	15	15	15	15	15	15	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5

												Targe	et Pow	ver [dl	3m] (a	veraș	ge)								
					11	la											11n(2	OHT)							
[MHz]	СН	6	9	12	18	24	36	48	54	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
5180	36	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	_11_	11	11	11	_11	11	11	10.5	14	14	14	14	_14	14	_14	13.5
5200	40	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	11	11	11	11	_ 11	11	11	10.5	14	14	14	14	14	14	14	13.5
5220	44	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	_11_	_11	_11_	_11_	_11_	_11_	_11	10.5	_14	14	14	14	14	14	14	13.5
5240	48	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	11	11	11	11	11	11	11	10.5	14	14	14	14	14	14	14	13.5
5260	52					12.5				_11_	_11	11	11	_11_	11		10.5	_14	14	14	14	14	14	14	13.5
5280	56					12.5				11	11	11	11	11	11	-==-	10.5	14	14	14	14	14	14		13.5
5300	60					12.5					-=	. 		11		-==-	10.5	_14_	14	14	14	14	14	14	13.5
5320	64	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	11	11	11	11	11	11	11	10.5	14	14	14	14	14	14	14	13.5
5500	100	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5520	104	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5540	108	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5560	112	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5580	116	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5600	120	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5620	124	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5640	128	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5660	132	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5680	136	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5700	140	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5745	149	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5765	153	15	15	15	15	15	15	15	14	13.5	13.5	13.5	13.5	13.5	12.5	10.5	8.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5	11.5
5785	157	15	15	15	15	15	15	15	14			!		13.5						+				13.5	
5805	161					15								13.5										13.5	
5825	165					15								13.5										13.5	

							Tar	get Po	ower [dBm]	(aver	age)					
									11n(4	OHT)							
[MHz]	СН	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
2422	3	6	6	6	6	6	6	6	6	9	9	9	9	9	9	9	9
2427	4	13.5	13.5	13.5	13.5	13.5	13	12.5	12	16.5	16.5	16.5	16.5	16.5	16	15.5	15
2432	5	_12_	12	12	12	12	_11_	11	11	15_	15	_ 15_	15	15	14	14	_14_
2437	6	10.5	10.5	10.5	10.5	10.5	10.5	10	10	13.5	13.5	13.5	13.5	13.5	13.5	13	13
2442	7	9.5	9.5	9.5	9.5	9.5	9	9	9	12.5	12.5	12.5	12.5	12.5	12	12	12
2447	8	8	8	8	8	8	8	8	8	11	11	11	11	11	11	11	11
2452	9	7	7	7	7	7	7	7	7	10	10	10	10	10	10	10	10
5190	38	_10_	10	10	10	10	10	10	10	13_	13	_13_	13	13	13	13	_13_
5230	46	11	11	11	11	11	11	11	11	14	14	14	14	14	14	14	14
5270	54	_11_	_ 11	_11	11	_11	_ 11	_11_	11	14	_14	_ 14_	14	14	14	14	14
5310	62	10	10	10	10	10	10	10	10	13	13	13	13	13	13	13	13
5510	102	_11_	_11	_11_	_11	_11	_ 11	_10_	8	14	_14	_ 14_	14	14	14	13	_ 11
5550	110	11	11	11	11	11	11	10	8	14	14	14	14	14	14	13	11
5590	118	11	11	11	11	11	11	10	8	14	14	14	14	14	14	13	11
5630	126	_11_	11	_11_	11	_11_	_11_	10	8	14	14	14	14	14	14	13	_ 11_
5670	134	11	11	11	11	11	11	10	8	14	14	14	14	14	14	13	11
5755	151	_11	11	11	11	11	11	10	8	14	14	14	14	14	14	13	11
5795	159	11	11	11	11	11	11	10	8	14	14	14	14	14	14	13	11

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2.4. Maximum output power which may possible

											Max	kimu	m ou	tput p	ower	which	n may	possil	ble [d]	Bm] (a	vera	ge)							
			11	b					11	g											11n(2	OHT)							
[MHz]	СН	1	2	5.5	11	6	9	12	18	24	36	48	54	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
2412	1	16	16	16	16	16	16	16	16	16	16	16	16	13	13	13	13	13	13	13	13	16	16	16	16	16	16	16	16
2417	2	16	16	16	16	19.5	19.5	19.5	19.5	19.5	19.5	18.5	17.5	17	17	17	17	17	16.5	16	15.5	20	20	20	20	20	19.5	19	18.5
2422	3	16	16	16	16	19	19	19	19	19	19	18	17.5	16.5	16.5	16.5	16.5	16.5	16	15.5	15	19.5	19.5	19.5	19.5	19.5	19	18.5	18
2427	4	16	16	16	16	19	19	19	19	19	19	18	17.5	16	16	16	16	16	15.5	15	14.5	19	19	19	19	19	18.5	18	17.5
2432	5	16	16	16	16	18.5	18.5	18.5	18.5	18.5	18.5	18	17.5	15.5	15.5	15.5	15.5	15.5	15	15	14.5	18.5	18.5	18.5	18.5	18.5	18	18	17.5
2437	6	16	16	16	16	18.5	18.5	18.5	18.5	18.5	18.5	18	17.5	15	15	15	15	15	14.5	14.5	14	18	18	18	18	18	17.5	17.5	17
2442	7	16	16	16	16	18	18	18	18	18	18	17.5	17.5	14.5	14.5	14.5	14.5	14.5	14.5	14	14	17.5	17.5	17.5	17.5	17.5	17.5	17	17
2447	8	16	16	16	16	18	18	18	18	18	18	17.5	17.5	14	14	14	14	14	14	13.5	13.5	17	17	17	17	17	17	16.5	16.5
2452	9	16	16	16	16	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
2457	10	16	16	16	16	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	13	13	13	13	13	13	13	13	16	16	16	16	16	16	16	16
2462	11	16	16	16	16	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	13	13	13	13	13	13	13	13	16	16	16	16	16	16	16	16

		10 10			1 - 7 10	-,	- 7.10	-,10	- , , -	,	.5 15	, 13	1	13	1.10	13	13	1.10	10	10	1 10	1	
							Max	aimun	1 outp	ut po	wer w	hich r	nay p	ossible	e [dBr	n] (avo	erage)					
				11a											11n(2	OHT)							
[MHz]	СН	6 9	12 1	8 24	36	48	54	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
5180	36	15 15	15 1	5 15	15	15	15	13.5	13.5	13.5	13.5	13.5	13.5	13.5	_13_	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16
5200	40	15 15	_15 _1	5 15	15	15	15	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16
5220	44	15 15	15 1	5 15	15	15	15	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16
5240	48	15 15	15 1	5 15	15	15	15	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16
5260	52	15 15					15					13.5							16.5				
5280	56	15 15			15		15					13.5							16.5				
5300	60	15 15										13.5							16.5				
5320	64	15 15						13.5	13.5	13.5	13.5	13.5	13.5	13.5	13	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16
5500		17.5 17.5						16	_16_	16	16	16	15	_13_	11	19	19	19	19	19	18	16	_ 14 _
5520		17.5 17.5						_16_	_16_	16	_16_	_16_	_15_	_ 13 _	_11_	19	19	_19_	19			16	_ 14 _
5540	108	17.5 17.5	17.5 17	.5 17.5	17.5	17.5	16.5	16	16	16	16	16	15	_13	11	19	19	19	19	19	18	16	_14
5560	112	17.5 17.5	17.5, 17	.5 . 17.5	17.5	17.5	16.5	16	16	16	16	16	15	13	- 11	19			19		18	16	14
5580	116	17.5 17.5	17.5, 17	.5 17.5	17.5	17.5	16.5	16	16	16	16	16	15	_13	11	19		19	19	19		16	14
5600		17.5 17.5						16	_16_	16	16	16	15	_ 13 _	_11_	19	_19_	_19_	19	19	_18_	16	14
5620	124	17.5 17.5	17.5 17	.5 17.5	17.5	17.5	16.5	16	16	16	16	16	15	13	11	19	19	19	19	19	18	16	14
5640		17.5 17.5						16	16	16	16	16	15	13	11	19	19	19	19	19	18	16	14
5660		17.5 17.5						16	16	16	16	16	15	_13	11	19	19	19	19	19	18	16	14
5680		17.5 17.5						16			16	16	15	_13_	11_	19		19	19	19		16	_ 14 _
5700		17.5 17.5						16	16	16	16	16	15	13	11	19	19	19	19	19	18	16	14
5745		17.5 17.5				4		16	16	16	16	16	15	13	11	19	19	19	19	19	18	16	14
5765		17.5 17.5						16		16	16	16	15	13	_11_	19	19	19	19	19	18	10	14
5785		17.5 17.5						16	_16	16	16	16	_15_	_13_	_11_	19	19	19	19	19	_18_	16	14
5805	161	17.5 17.5	17.5, 17	.5 17.5	17.5	17.5	16.5	16	_16_	16	16	16	_15_	_13_	_11_	19	19	19	19	19	18	16	14
5825	165	17.5 17.5	17.5 17	.5 17.5	17.5	17.5	16.5	16	16	16	16	16	15	13	11	19	19	19	19	19	18	16	14

				M	axim	ım ou	tput p	ower	which	n may	possil	ole [d]	Bm] (a	averaș	ge)		
									11n(4	OHT)							
[MHz]	СН	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
2422	3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2427	4	16	16	16	16	16	15.5	15	14.5	19	19	19	19	19	18.5	18	17.5
2432	5	14.5	14.5	14.5	14.5	14.5	13.5	13.5	13.5	17.5	17.5	17.5	17.5	17.5	16.5	16.5	16.5
2437	6	_13	13	13	_13_	13	_13_	12.5	12.5	16	16	_16_	16	16	16	15.5	15.5
2442	7	12	12	12	12			11.5		15	15	15	15			14.5	
2447	8	10.5	10.5	10.5			10.5	10.5	10.5		13.5						
2452	9	/	9.5				9.5		7.0		12.5						
5190	38			12.5							15.5			<		4	
5230	46	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
5270	54			13.5							16.5						
5310	62	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
5510	102			13.5						16.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5
5550	110	13.5	13.5	13.5	13.5	13.5	13.5	12.5	10.5	16.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5
5590	118			13.5							16.5						
5630	126	13.5	13.5	13.5	13.5	13.5	13.5	12.5	10.5	16.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5
5670	134		13.5			13.5			10.5		16.5						
5755	151			13.5							16.5						
5795	159	13.5	13.5	13.5	13.5	13.5	13.5	12.5	10.5	16.5	16.5	16.5	16.5	16.5	16.5	15.5	13.5

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SECTION 3: Test specification, procedures and results

3.1 Test specification

The US Federal Communications Commission has released the report and order "Guidelines for Evaluating the Environmental Effects of RF Radiation", ET Docket No. 93-62 in August 1996. The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g for an uncontrolled environment and 8.0 mW/g for an occupational/controlled environment as recommended by the ANSI/IEEE standard C95.1-1992. The device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling in accordance with the following measurement procedures..

KDB 447498 D01 (v06): General RF exposure guidance

KDB 248227 D01 (v02r02): SAR Guidance for IEEE 802.11 (Wi-Fi) transmitters

KDB 865664 D01 (v01r04): SAR measurement 100MHz to 6GHz

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.

3.2 Exposure limit

Environments of exposure limit	Whole-Body (averaged over the entire body)	Partial-Body (averaged over any 1g of tissue)	Hands, Wrists, Feet and Ankles (averaged over any 10g of tissue)
(A) Limits for Occupational /Controlled Exposure (W/kg)	0.4	8.0	20.0
(B) Limits for General population /Uncontrolled Exposure (W/kg)	0.08	1.6	4.0

^{*.} Occupational/Controlled Environments:

The limit applied in this test report is;

General population / uncontrolled exposure, Partial-Body (averaged over any 1g of tissue) limit: 1.6 W/kg

3.3 Procedures and Results

Liquid type Body liquid	Hz) (W58)
Test Procedure SAR measurement; KDB 447498, KDB 248227, KDB 865664, IEEE Std.1528 Category FCC 47CFR §2.1093 (Portable device) Results (SAR(1g)) Complied Complied Complied Complied Complied Antenna# ant#0 ant#1 ant#0 ant#1 ant#0 ant#1 ant#0 ant#1 ant#0 ant#1 Liquid type Body liquid	lied ant#1
Category FCC 47CFR §2.1093 (Portable device) Results (SAR(1g)) Complied Complied Complied Complied Complied Complied Antenna# ant#0 ant#1 an	ant#1
Results (SAR(1g)) Complied Complied Complied Complied Complied Complied Antenna# ant#0 ant#1 ant#0 ant	ant#1
Antenna# ant#0 ant#1 ant#0 ant#1 ant#0 ant#1 ant#0 art#1 art#0 art#1 art#1 art#0 art#1 art	ant#1
Liquid type Body liquid 0.16 0.11 0.14 0.10 0.11 0.06 0.18 0.16 0.12 0.00 0.11 0.06 0.18 0.16 0.12 0.00 0.10 0.10 0.10 0.10 0.10 0.10	
016 011 014 010 011 006 018 016 012 0	0.15
Proported SAP pulse 0.16 0.11 0.14 0.10 0.11 0.06 0.18 0.16 0.12 0	0.15
	V-1-7
Reported SAR value W/kg W/kg W/kg W/kg W/kg W/kg W/kg W/kg	W/kg
0.120 - 0.0603 - 0.103 - 0.0683 - 0.0781 - 0.0424 - 0.120 - 0.117 - 0.0808 - 0.0813 - 0.081	0.106
Measured SAR value 0.125 0.0035 0.105 0.0003 0.0781 0.0424 0.125 0.117 0.0008 0.0008 W/kg	W/kg
Operation mode, 11g(6Mbps), 11g(6Mbps), 11a(6Mbps), 11	1a(6Mbps)
	5745
Duty cycle [%] (scaled factor) 99.8 (×1.00) 99.8 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00)	9.7 (×1.00)
Output power [dBm] 18.52dBm 17.63dBm 13.70dBm 13.50dBm 13.67dBm 13.84dBm 15.99dBm 16.18dBm 15.93dBm 15.9	15.91dBm
(max. power, scaled factor) (19.5,×1.25) (19.5,×1.25) (19.5,×1.35) (15.0,×1.31) (15.0,×1.36) (15.0,×1.31) (17.5,×1.42) (17.5,×1.42) (17.5,×1.36) (17.5,×1.44) (17.5,×1.44) (17.5,×1.45)	17.5,×1.44)
Liquid type Head liquid (by Flat phantom)	
D 4 164D 1 0.18 0.11 0.15 0.12 0.11 0.07 0.19 0.18 0.14 0	0.17
Reported SAR value W/kg W/kg W/kg W/kg W/kg W/kg W/kg W/kg	W/kg
	0.118
Wkg	W/kg
	1a(6Mbps)
frequency[MHz] 2417 2417 5180 5180 5260 5300 5500 5500 5785 5	5745
Duty cycle [%] (scaled factor) 99.8 (×1.00) 99.8 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00) 99.7 (×1.00)	9.7 (×1.00)
	15.91dBm
$ (\text{max. power, scaled factor}) (19.5, \times 1.25) (19.5, \times 1.54) (15.0, \times 1.35) (15.0, \times 1.35) (15.0, \times 1.36) (15.0, \times 1.39) (17.5, \times 1.42) (17.5, \times 1.42) (17.5, \times 1.43) (17.5, \times 1.44) (17.$	17.5,×1.44)

Note: UL Japan's SAR Work Procedures No.13-EM-W0429 and 13-EM-W0430. No addition, deviation nor exclusion has been made from standards

are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

^{*.} General Population/Uncontrolled Environments: are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

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3.4 Test Location

No.7 shielded room (2.76m (Width) × 3.76m (Depth) × 2.4m (Height)) for SAR testing.

UL Japan, Inc., Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken 259-1220 JAPAN Telephone number: +81 463 50 6400 / Facsimile number: +81 463 50 6401

3.5 Confirmation before SAR testing

3.5.1 Average power for SAR tests

Before SAR test, the RF wiring for the sample had been switched to the antenna conducted power measurement line from the antenna line and the average power was measured. The result is shown in Section 6.

*. The EUT transmission power was verified that it was within 2dB lower than the maximum tune-up tolerance limit when it was set the rated power. (Clause 4.1, KDB447498 D01 (v06))

Step.1 Data rate check (*. The EUT supported the following data rate in each operation mode.)

1	1b	11	lg	11	la	11n(20HT)							11n(40HT)				
Mod	Data	Mod	Data	Mod	Data	MCS	Spatial	Mod	MCS	Spatial	Mod	MCS	Spatial	Mod	MCS	Spatial	Mod
(DSSS)	rate	(OFDM)	rate	(OFDM)	rate	Index	Stream	(OFDM)	Index	Stream	(OFDM)	Index	Stream	(OFDM)	Index	Stream	(OFDM)
DBPSK	1 Mbps	BPSK	6 Mbps	BPSK	6 Mbps	MCS0	1	BPSK	MCS8	2	BPSK	MCS0	1	BPSK	MCS8	2	BPSK
DQPSK	2 Mbps	BPSK	9 Mbps	BPSK	9 Mbps	MCS1	1	QPSK	MCS9	2	QPSK	MCS1	1	QPSK	MCS9	2	QPSK
CCK	5.5 Mbps	QPSK	12 Mbps	QPSK	12 Mbps	MCS2	1	QPSK	MCS10	2	QPSK	MCS2	1	QPSK	MCS10	2	QPSK
CCK	11 Mbps	QPSK	18 Mbps	QPSK	18 Mbps	MCS3	1	16QAM	MCS11	2	16QAM	MCS3	1	16QAM	MCS11	2	16QAM
*.Mod: M	odulation	16QAM	24 Mbps	16QAM	24 Mbps	MCS4	1	16QAM	MCS12	2	16QAM	MCS4	1	16QAM	MCS12	2	16QAM
	oddiadon	16QAM	36 Mbps	16QAM	36 Mbps	MCS5	1	64QAM	MCS13	2	64QAM	MCS5	1	64QAM	MCS13	2	64QAM
		64QAM	48 Mbps	64QAM	48 Mbps	MCS6	1	64QAM	MCS14	2	64QAM	MCS6	1	64QAM	MCS14	2	64QAM
		64QAM	54 Mbps	64QAM	54 Mbps	MCS7	1	64QAM	MCS15	2	64QAM	MCS7	1	64QAM	MCS15	2	64QAM

Step.2 Consideration of SAR test channel

For the SAR test reference, on each operation band, the average output power was measured on the lower/middle/upper and specified channels with the worst data rate condition in step 1 in the above.

3.6 Confirmation after SAR testing

It was checked that the power drift [W] is within $\pm 5\%$ in the evaluation procedure of SAR testing. The verification of power drift during the SAR test is that DASY5 system calculates the power drift by measuring the e-filed at the same location at beginning and the end of the scan measurement for each test position.

The result is shown in APPENDIX 2.

*. DASY5 system calculation Power drift value[dB] =20log(Ea)/(Eb) (where, Before SAR testing: Eb[V/m] / After SAR testing: Ea[V/m])

Limit of power drift[W] = $\pm 5\%$

Power drift limit (X) [dB] = $10\log(P_{drift}) = 10\log(1.05/1) = 10\log(1.05) - 10\log(1) = 0.21dB$

from E-filed relations with power.

S=E×H=E²/ η =P/(4× π ×r²) (η : Space impedance) \rightarrow P=(E²×4× π ×r²)/ η

Therefore, The correlation of power and the E-filed

Power drift limit (X) dB=10log(P_drift)=10log(E_drift)^2=20log(E_drift)

From the above mentioned, the calculated power drift of DASY5 system must be the less than ±0.21dB.

3.7 Test setup of EUT and SAR measurement procedure

After considering the outline of Flat Panel Sensor, the SAR test was carried out on the following setup conditions.

	Explanation of EUT setup position	ante	nna #0	ante	nna #1
Setup	(*. Refer to Appendix 1 for test setup photographs.)	Separation [mm]	SAR Tested /Reduced	Separation [mm]	SAR Tested /Reduced
Front	The front surface (patient side) of EUT was touched to the Flat phantom.	9.7	Tested (*1)	9.7	Tested (*1)
Back	The back surface (operator side) of EUT was touched to the Flat phantom.	2	Reduced (*1)	2	Reduced (*1)
Long side-ant#1 (antenna#1)	The long side edge surface (near antenna #1 side) of EUT was touched to the Flat phantom.	≈9	Tested (*1)	≈200	Reduced (>200 mm)
Long-side	The long side edge surface (near antenna #1 side) of EUT was touched to the Flat phantom.	≈28.7	Reduced (*1)	≈250	Reduced (>200 mm)
Short-side-ant#0 (antenna#0)	The short side edge surface (near antenna #0 side) of EUT was touched to the Flat phantom.	≈260	Reduced (>200 mm)	≈9	Tested (*1)
Short-side	The short side edge surface (opposite to antenna#0) of EUT was touched to the Flat phantom.	≈310	Reduced (>200 mm)	≈28.7	Reduced (*1)

Separation: Antenna separation distance. It is the distance from the antenna to the outer surface of Flat Panel Sensor form which a human may touch.

(cont'd)

^{*.} Size of EUT (Flat Panel Sensor, RIC 24C): 328 × 268 × 15 (thickness) [mm]

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(cont'd)

KDB 447498 D01 (v06) was taken into consideration to reduce SAR test.

Consideration of SAR test reduction by the antenna separation distance (100MHz~6GHz, ≤50mm)											
Band,	Setup	Minimu	ım distance	Max.power or	Max.	tune-up		Calculation		dalone SAR	
Mode	Position	[mm]	[mm] (rounded)	upper frequency [GHz]	[dBm]	[mW]	[mW] (rounded)	of exclusion: $\leq 3.0 (*2)$		t Required? , -> Required)	Remarks
	Back (ant#0, ant#1)	2	2 (≤5)	2.417	19.5	89.1	89	27.7	>3.0	Required	->SAR test was reduced. (*1)
WLAN 2.4GHz	Long-side-ant#1(ant#1), Short-side-ant#0(ant#0)	≈9	9	2.417	19.5	89.1	89	15.4	>3.0	Required	-
2.4011Z	Front (ant#0, ant#1)	9.7	10	2.417	19.5	89.1	89	13.8	>3.0	Required	-
118	Long-side(ant#0), Short-side(ant#1)	≈28.7	29	2.417	19.5	89.1	89	4.8	>3.0	Required	-
	Back (ant#0, ant#1)	2	2 (≤5)	5.32	15.0	31.6	32	14.8	>3.0	Required	->SAR test was reduced. (*1)
WLAN W52&53	Long-side-ant#1(ant#1), Short-side-ant#0(ant#0)	≈9	9	5.32	15.0	31.6	32	8.2	>3.0	Required	-
11a	Front (ant#0, ant#1)	9.7	10	5.32	15.0	31.6	32	7.4	>3.0	Required	-
114	Long-side(ant#0), Short-side(ant#1)	≈28.7	29	5.32	15.0	31.6	32	2.5	≤3.0	Not required	-
	Back (ant#0, ant#1)	2	2 (≤5)	5.7	17.5	56.2	56	26.7	>3.0	Required	->SAR test was reduced. (*1)
WLAN W56	Long-side-ant#1(ant#1), Short-side-ant#0(ant#0)	≈9	9	5.7	17.5	56.2	56	14.9	>3.0	Required	-
11a	Front (ant#0, ant#1)	9.7	10	5.7	17.5	56.2	56	13.4	>3.0	Required	-
114	Long-side(ant#0), Short-side(ant#1)	≈28.7	29	5.7	17.5	56.2	56	4.6	>3.0	Required	-
	Back (ant#0, ant#1)	2	2 (≤5)	5.825	17.5	56.2	56	27.0	>3.0	Required	->SAR test was reduced. (*1)
WLAN W58	Long-side-ant#1(ant#1), Short-side-ant#0(ant#0)	≈9	9	5.825	17.5	56.2	56	15.0	>3.0	Required	-
11a	Front (ant#0, ant#1)	9.7	10	5.825	17.5	56.2	56	13.5	>3.0	Required	-
114	Long-side(ant#0), Short-side(ant#1)	≈28.7	29	5.825	17.5	56.2	56	4.7	>3.0	Required	-

- *1. Since this EUT is the medical device, the EUT is only used under the guidance of a doctor or a qualified person. The possibility of the maximum RF human exposure is only a body/head of the patient who comes in contact directly on the front surface (patient side) of the EUT. Therefore, the SAR test was only considered to the front surface of the EUT. However, SAR value couldn't be measured at the front surface, so SAR was evaluated on the side edge.
- *2. Parenthesis 1), Clause 4.3.1, KDB 447498 D01 (v06) gives the following formula to calculate the SAR(1g) test exclusion thresholds for 100MHz-6GHz at test separation distance ≤50mm.

[(max.power of channel, including tune-up tolerance, mW)/(min.test separation distance, mm)] \times [$\sqrt{f(GHz)}$] \leq 3.0 (for SAR(1g)) ······ formula (1) If power is calculated from the upper formula (1);

[SAR(1g) test exclusion thresholds, mW] = $3 \times$ [test separation distance, mm] / [\sqrt{f} (GHz)] · · · · formula (2)

[SAR(1g)] test exclusion thresholds, $mW] = 3 \times 50 / SQRT(2.462) = 96mW$, where test separation distance=50mm

* Simultaneous transmission evaluation

Parenthesis 2) and 3), Clause 4.3.2, KDB 447498 D01 (v06) gives the following formula to calculate the simultaneous transmission SAR test exclusion limit. (SPLSR: SAR to peak location separation ratio must be ≤ 0.04 for antenna pair.)

	Mode	Data	Band	Position	Mini	imum	Max.power or	er or Max. power		timate Sa	AR(1g)[W/l	œ]	Ant#0<->#1	SPLSR	Simultaneous
	Mode	rate	Danu	FOSIUOII	dist	ance	Upper frequency	(with tune-up tolerance)	Ant#0	Ant#1	Ant#0+#1	Limit	distance	SILSK	SAR test apply?
Ī	n20	MCS8	2.4GHz	E	Ant#0	Ant#1	2.417GHz	17.0dBm (50mW)	1.07	1.07	2.14	1.6	315 mm	0.010	
Ī	n20	MCS8	W52/53	Front (Patient	9.7	9.7	5.32GHz	13.5dBm (22mW)	0.70	0.70	1.40	1.6	315 mm	0.005	Reduced
Ī	n20	MCS8	W56		9.7 mm		5.7GHz	16.0dBm (40mW)	1.31	1.31	2.62	1.6	315 mm	0.014	SPLSR: ≤0.04
	n20	MCS8	W58	side)	111111	111111	5.825GHz	16.0dBm (40mW)	1.33	1.33	2.66	1.6	315 mm	0.014	

^{*.} Calculating formula: Estimate standalone SAR(1g) = [(max.power, mW)/(min.test separation distance, mm)] × [\lambda f (GHz)] / [7.5] SPLSR (SAR to Peak Location Separation Ratio) = {(SAR_Ant#0, W/kg) + (SAR_Ant#1, W/kg)} \cdot 1.5/(Ant#0 \leftrightarrow \rightarrow \rightarrow 1 distance, mm)

By the determined test setup shown above, the SAR test was applied in the following procedures.

Step 1	Change the operation mode on each antenna independently with highest output power channel.
Step 2	Repeat Step1 for other frequency band.

^{*.} During SAR test, the radiated power is always monitored by Spectrum Analyzer.

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SECTION 4: Operation of EUT during testing

Operating modes for SAR testing

This EUT has IEEE 802.11b, g, a, n(HT20) and n(HT40) continuous transmitting modes.

The frequency and the modulation used in the SAR testing are shown as a following.

Operation	mode	g	b	n20(1Tx)	n20(2Tx)	n40(1Tx)	n40(2Tx)	a	n20(1Tx)	n20(2Tx)	n40(1Tx)	n40(2Tx)
band					W52 (U-NII-1) (*1)							
Tx band [MHz]		2412~2462			2422-	~2452	5180~5240			5190~5230	
Bandwidth	[MHz]	20	20	20	20	40	40	20	20	20	40	40
Max.power	[dBm]	19.5	16	17	20	16	19	15	13.5	16.5	13.5	16.5
Modulat	tion	OFDM	DSSS	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM
Data rate [Mbps]	6	1	MCS0	MCS8	MCS0	MCS8	6	MCS0	MCS8	MCS0	MCS8
SAR Test	ed?	Tested	Tested	Reduced	Reduced	Tested	Reduced	Tested	Reduced	Reduced	Reduced	Reduced
Frequency	ant#0	2417, 2437, 2462	2412(*2)	-(*2)	-(*3)	2427(*2)	-(*3)	5180	-	-	-	-
tested [MHz]	ant#1	2417, 2437, 2462	2412(*2)	-(*2)	-(*3)	2427(*2)	-(*3)	5180	-	-	-	-

Operation	mode	a	n20(1Tx)	n20(2Tx)	n40(1Tx)	n40(2Tx)	a	n20(1Tx)	n20(2Tx)	n40(1Tx)	n40(2Tx)	a	n20(1Tx)	n20(2Tx)	n40(1Tx)	n40(2Tx)
band			W5	3 (U-NII-	-2A)			W	56 (U-NII-	-2C)			W:	56 (U-NII-:	2C)	
Tx band [MHz]		5260~5320)	5270	~5310		5500~570)()	5510	~5670		5745~582	25	5755 ₁	~5795
Bandwidth [MHz]		20	20	20	40	40	20	20	20	40	40	20	20	20	40	40
Max.power	· [dBm]	15	13.5	16.5	13.5	16.5	17.5	16	19	13.5	16.5	17.5	16	19	13.5	16.5
Modulat	tion	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM	OFDM
Data rate [Mbps]		6	MCS0	MCS8	MCS0	MCS8	6	MCS0	MCS8	MCS0	MCS8	6	MCS0	MCS8	MCS0	MCS8
SAR Test	ted?	Tested	Reduced	Reduced	Tested	Reduced	Tested	Reduced	Reduced	Tested	Reduced	Tested	Reduced	Reduced	Tested	Reduced
Frequency tested [MHz]	ant#0	5260, 5300, 5320	-(*2)	-(*3)	-(*2)	-(*3)	5500, 5580, 5600, 5700	-(*2)	-(*3)	-(*2)	-(*3)	5745, 5785, 5825	-(*2)	-(*3)	-(*2)	-(*3)
		5260, 5300, 5320	-(*2)	-(*3)	5270 (*2)	-(*3)	5500, 5580, 5600, 5700	-(*2)	-(*3)	5550 (*2)	-(*3)	5745, 5785, 5825	-(*2)	-(*3)	5795 (*2)	-(*3)

Tx Controlled software: ART v09 (Build 34)

Mode: Continuous transmit mode.

•Tx antenna chain:

Ant#0=100, Ant#0=010, Ant#0+Ant#1(MIMO)=110.

- Frequency: Selected the target frequency.
- Data Rate: Selected the target data rate.
- Controlled software
- •HT40: Selected when 11n(40HT) was tested.
- •Setting target power. Defaults were used, but when measurement power didn't enter 2dB from maximum power, it was adjusted (tuned-up).
- *. As for parameters other than the above, the initial value was used.



SAR test reduction consideration

[Table A-1. Output power measured and SAR test channel selection]

802.11	Modes	b	g	1	n	a	n(1Tx)	
Ch. Bandy	vidth [MHz]	20	20	20	40	20	20	40
Lowest data	Lowest data rate [Mbps]		6	6.5	6.5	6	6.5	13
§15.247	Ch.	<mark>1</mark> /6/11	1/ <mark>2/</mark> 6/11	-	-			
(2.4GHz)	mW (ant#0)	<mark>32</mark> /29/31	29/ <mark>71</mark> /51/41	lower	power			
(2.4GHZ)	mW (ant#1)	33/31/30	29/ <mark>58</mark> /53/39	lower	power			
U-NII-1	Ch.					36/44/48	-	-
(W52)	mW (ant#0)					23/25/25	lower power	
(1132)	mW (ant#1)					22/23/23	lower	power
U-NII-2A	Ch.					52/ <mark>60</mark> /64	-	1
(W53)	mW (ant#0)					23/ <mark>25/</mark> 24	lower	power
(**33)	mW (ant#1)					22/ <mark>23</mark> /23	lower	power
U-NII-2C	Ch.					100/ <mark>118</mark> /120/140	-	1
(W56)	mW (ant#0)					40/ <mark>44</mark> /43/39	lower	power
(**30)	mW (ant#1)					42/ <mark>41</mark> /41/38	lower	power
U-NII-3	Ch.					149/157/ <mark>165</mark>	-	-
(W58)	mW (ant#0)					39/39/ <mark>40</mark>	lower	power
(1730)	mW (ant#1)					39/40/ <mark>44</mark>	lower	power

Table A-2. Reported SAR(1g) and test reduction plan](Head)										
b	g	1	n	a	n(1	Tx)				
20	20	20	40	20	20	40				
1	6	6.5	6.5	6	6.5	13				
1	1/ <mark>2</mark> /6/11	-	-							
<u>0.08</u>	<u>0.18</u>	lower	power							
<u>0.04</u>	<u>0.11</u>	lower	power							
				<mark>36</mark> /44/48	-	-				
				<mark>0.15</mark>	lower	power				
				<mark>0.12</mark>	lower	power				
				52/ <mark>60</mark> /64	-	-				
				0.10	lower	power				
				0.07	lower	power				
				<mark>100</mark> / <u>118</u> /120/ <mark>140</mark>	-	-				
				0.19 / <mark>0.07</mark> / 0.05 / <mark>0.07</mark>	lower	power				
				0.18/0.12/0.11/ <mark>0.14</mark>	lower	power				
				<mark>149</mark> / <mark>157</mark> / <mark>165</mark>	-	-				
				0.11 / 0.14 / <mark>0.09</mark>	lower	power				
				0.17 / 0.17 / <mark>0.17</mark>	lower	power				

^{*1. (}KDB248227 D01 (v02r02)) Since highest reported SAR(1g) of U-NII-2A was ≤1.2 W/kg, SAR measurement of U-NII-1 band was omitted. However, SAR test was applied to 5180MHz as lower frequency of U-NII-1 and U-NII-2A band.

*2. (KDB248227 D01 (v02r02)) SAR test of other power mode was reduced, because the reported SAR(1g) of 11g, and 11a mode (highest power mode in each

operation band) was \leq 0.4 W/kg. However, in a representative frequency, 11b was evaluated for DSSS mode and 11n(40HT) mode was evaluated for BW=40MHz.

^{*3. (}KDB447498 D01(v06)) Since SPLSR (SAR to peak location separation ratio) was enough smaller than 0.04, SAR test of MIMO mode was reduced.

* The SAR testing was applied to lower, middle and upper channels for the worst SAR condition in each operation band.

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SECTION 5: Uncertainty Assessment (SAR measurement)

Uncertainty of SAR measurement (2.4-6GHz) (*.ε&σ:≤±5%, DAK3.5, Tx:≈100% duty cycle) (v08)	1g SAR	10g SAR
Combined measurement uncertainty of the measurement system (k=1)	± 13.7%	± 13.6%
Expanded uncertainty (k=2)	± 27.4%	± 27.2%

	Error Description (2.4-6GHz) (v08)	Uncertainty Value	Probability distribution	Divisor	ci (1g)	ci (10g)	ui (1g)	ui (10g)	Vi, veff
A	Measurement System (DASY5)						(std. uncertainty)	(std. uncertainty)	
1	Probe Calibration Error	±6.55 %	Normal	1	1	1	±6.55 %	±6.55 %	∞
2	Axial isotropy Error	±4.7 %	Rectangular	√3	√0.5	√0.5	±1.9 %	±1.9 %	∞
3	Hemispherical isotropy Error	±9.6 %	Rectangular	√3	√0.5	√0.5	±3.9 %	±3.9 %	∞
4	Linearity Error	±4.7 %	Rectangular	√3	1	1	±2.7 %	±2.7 %	∞
5	Probe modulation response	±2.4 %	Rectangular	√3	1	1	±1.4 %	±1.4 %	∞
6	Sensitivity Error (detection limit)	±1.0 %	Rectangular	√3	1	1	±0.6 %	±0.6 %	∞
7	Boundary effects Error	±4.3%	Rectangular	$\sqrt{3}$	1	1	±2.5 %	±2.5 %	∞
8	Readout Electronics Error(DAE)	±0.3 %	Rectangular	√3	1	1	±0.3 %	±0.3 %	∞
9	Response Time Error	±0.8 %	Normal	1	1	1	±0.8 %	±0.8 %	∞
10	Integration Time Error (≈100% duty cycle)	±0 %	Rectangular	$\sqrt{3}$	1	1	0 %	0%	∞
11	RF ambient conditions-noise	±3.0 %	Rectangular	√3	1	1	±1.7 %	±1.7 %	∞
12	RF ambient conditions-reflections	±3.0 %	Rectangular	√3	1	1	±1.7 %	±1.7 %	∞
13	Probe positioner mechanical tolerance	±3.3 %	Rectangular	√3	1	1	±1.9 %	±1.9 %	∞
14	Probe Positioning with respect to phantom shell	±6.7 %	Rectangular	$\sqrt{3}$	1	1	±3.9 %	±3.9 %	∞
15	Max. SAR evaluation (Post-processing)	±4.0 %	Rectangular	$\sqrt{3}$	1	1	±2.3 %	±2.3 %	∞
В	Test Sample Related		_						
16	Device Holder or Positioner Tolerance	±3.6 %	Normal	1	1	1	±3.6 %	±3.6 %	5
17	Test Sample Positioning Error	±5.0 %	Normal	1	1	1	±5.0 %	±5.0 %	145
18		±0%	Rectangular	$\sqrt{3}$	1	1	±0 %	±0 %	∞
19	Drift of output power (measured, <0.2dB)	±2.3%	Rectangular	$\sqrt{3}$	1	1	±2.9 %	±2.9 %	∞
C	Phantom and Setup								
20	Phantom uncertainty (shape, thickness tolerances)	±7.5 %	Rectangular	√3	1	1	±4.3 %	±4.3 %	∞
21	Algorithm for correcting SAR (e',σ: ≤5%)	±1.2 %	Normal	1	1	0.84	±1.2 %	±0.97 %	∞
22	Measurement Liquid Conductivity Error (DAK3.5)	±3.0 %	Normal	1	0.78	0.71	±2.3 %	±2.1 %	7
23	Measurement Liquid Permittivity Error (DAK3.5)	±3.1 %	Normal	1	0.23	0.26	±0.7 %	±0.8 %	7
24	Liquid Conductivity-temp.uncertainty (≤2deg.C.)	±5.3 %	Rectangular	√3	0.78	0.71	±2.4 %	±2.2 %	∞
25	Liquid Permittivity-temp.uncertainty (≤2deg.C.)	±0.9 %	Rectangular	√3	0.23	0.26	±0.1 %	±0.1 %	∞
	Combined Standard Uncertainty		_				±13.7 %	±13.6 %	733
	Expanded Uncertainty (k=2)						±27.4 %	±27.2 %	

^{*.} Table of uncertainties are listed for ISO/IEC 17025.

^{*} This measurement uncertainty budget is suggested by IEEE Std.1528(2013) and determined by Schmid & Partner Engineering AG (DASY5 Uncertainty Budget). Per KDB 865664 D01 (v01r04) SAR Measurement 100 MHz to 6 GHz Section 2.8.1., when the highest measured SAR(1g) within a frequency band is < 1.5W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std.1528 (2013) is not required in SAR reports submitted for equipment approval.

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SECTION 6: Confirmation before testing

Assessment for the antenna terminal port conducted power of EUT (Worst data rate, worst channel determination)

2.4GHz band 6.1.1

0.1.1	4,7			_																		_
		,	Power	spec.	I	Duty cy	cle	A	Antenna i	#0 (chair	#0) pow	er		Antenna	#1 (chair	1#1) pow	er	MIMO) Ant.#0	+Ant.#1	power	
	Freq.	Data			duty		scaled	Set		Δ	Tune-up		Set		Δ	Tune-up			MIMO	SUM	Δ	Power
Mode	r req.	rate	Typical	Max.	cycle	factor	factor		Ave.	Max.		SAR		Ave.	Max.		SAR			Ave.	Max.	Tune
	рит	D. 41	LID. 1	LID. 1		L ID3		pwr.	LID. 1		factor	Tested?	pwr.	r ID. 1		factor	Tested?		max.			_
	[MHz]	[Mbps]		[dBm]	[%]	[dB]	[-]	[dBm]	[dBm]	[dB]	[-]		[dBm]	[dBm]	[dB]	[-]		[dBm]	[dBm]	[aBm]	[dB]	-up [:] ?
	2412	1	13.5	16.0	99.8	0.01	$\times 1.00$	13.5	14.13	-1.87	×1.54	-	13.5	13.92	-2.08	×1.61	-					-
	2412	2	13.5	16.0	99.8	0.01	×1.00	13.5	14.13	-1.87	-	-	13.5	13.92	-2.08	-	-					-
	2412	5.5	13.5	16.0	99.6	0.02	×1.00		14.13	-1.87	·····		13.5	13.92	-2.08							
1.11											ļ	<u>-</u>										<u>-</u>
11b	2412	11	13.5	16.0	99.4	0.03	$\times 1.01$	13.5	14.13	-1.87	-	-	13.5	13.92	-2.08	-	-					
	2412	1	13.5	16.0	99.8	0.01	$\times 1.00$	15.0	14.99	-1.01	×1.26	Tested	15.0	15.20	-0.80	×1.20	Tested					tune-up
	2437	[] [13.5	16.0	99.8	0.01	×1.00	15.0	14.57	-1.43	×1.39	-	15.0	14.91	-1.09	×1.29	[·					tune-up
	2462	1	13.5	16.0	99.8	0.01	×1.00	15.0	14.97	-1.03	×1.27		15.0	14.70	-1.30	×1.35						tune-up
-				_	_		_															unc-up
	2417	6	17.0	19.5	99.8	0.01	×1.00	17.0	17.44	-2.06	×1.61	-	17.0	17.63	-1.87	×1.54	Tested					<u> </u>
	2417	9 12	17.0	19.5	99.6	0.02	$\times 1.00$	17.0	17.37	-2.13 -2.19 -2.20 -2.30	-	-	17.0	17.51	-1.99	-	-					-
	2417	12	17.0	19.5	99.4	0.03	×1.01	17.0	17.31	-2 19	-	_	17.0	17.47	-2.03	_	_					-
	2417	18	17.0	19.5	99.0		×1.01	17.0	17.30	2 20			17.0	17.37	-2.13							<u>-</u>
		10								-2.20	ļ						-					
	2417	24	17.0	19.5	98.8		×1.01	17.0	17.20	-2.30		-	17.0	17.35	-2.15	-	-					
11.	2417	36	17.0	19.5	98.4	0.07	$\times 1.02$	17.0	17.21	-2.29	-	-	17.0	17.39	-2.11	-	-					-
11g	2417	48	16.0	18.5	97.4		×1.03	16.0	15.92	-2.58	·····	-	16.0	16.29	-2.21	_	_					-
	2417	56	15.0		97.1					-2.48	ļ				-2.05							
				17.5		0.13	$\times 1.03$	15.0	15.02		-	-	15.0	15.45		-	-					
	2412	6	13.5	16.0	99.8	0.01	$\times 1.00$	13.5	14.57	-1.43	×1.39	-	13.5	14.63	-1.37	×1.37	-					-
	2417	6	17.0	19.5	99.8	0.01	×1.00	18.0	18.52	-0.98	×1.25	Tested		-	-	-	-					tune-up
	2437	6	15.5	18.0	99.8	0.01	×1.00	17.0	17.09	-1.41	×1.38	Tested	17.0	17.25	-1.25	×1.33	Tested					
											V1.30											tune-up
	2462	6	15.0	17.5	99.8	0.01	$\times 1.00$	16.0	16.08	-1.42	×1.39	Tested	16.0	15.87	-1.63	×1.46	Tested					tune-up
	2417	MCS0	14.5	17.0	99.6	0.02	$\times 1.00$	14.5	15.16	-1.84	×1.53	no (*1)	14.5	15.12	-1.88	×1.54	no (*1)					l -
	2417	MCS1	14.5	17.0	99.3	0.03	×1.01	14.5	14.87	-2.13 -2.26	i -	-	14.5	14.99	-2.01	-	-					-
	2417	MCS2	14.5	17.0	98.8	0.05	×1.01	14.5	14.74	2.12	ł		14.5	14.80	-2.20		ļ					
										-2.20		-				-						
	2417	MCS3	14.5	17.0	98.6	0.06	×1.01	14.5	14.72	-2.28	<u> </u>	-	14.5	14.79	-2.21	-	-					-
11n	2417	MCS4	14.5	17.0	97.9	0.09	×1.02	14.5	14.62	-2.38 -2.11	-	-	14.5	14.78	-2.22	-	-					
(20HT)	2417	MCS5	14.5	17.0	97.3	0.12	×1.03	14.0	14.39	-2 11	_		14.0	14.29	-2.21	_						
										-2.05	ļ											<u>-</u>
(1Tx)	2417	MCS6	14.5	17.0	96.8	0.14	×1.03	13.5	13.95	-2.05		-	13.5	13.83	-2.17	-	-					-
	2417	MCS7	14.5	17.0	96.4	0.16	$\times 1.04$	13.0	13.54	-1.96	-	-	13.0	13.53	-1.97	-	-					-
	2412	MCS0	10.5	13.0	99.6	0.02	×1.00	10.5	11.71	-1.29	×1.35	-	10.5	11.36	-1.64	×1.46	-			·		-
	2437	MCS0	12.5	15.0		0.02	×1.00	13.5	13.73	-1.27	×1.34		13.5	14.04	-0.96	×1.25						tune-up
				13.0	22.0	0.02	1 ^ 1.00				^1.J+	-			-0.50	A1.23	-					turic-up
	2462	1.4000	10.5	12.0	100.6																	
	2462	MCS0	10.5	13.0	99.6	0.02	×1.00	11.5	11.34	-1.66	×1.47		11.5	11.79	-1.21	×1.32	-					tune-up
	2462 2427	MCS0 MCS0	10.5	13.0 16.0	99.6 99.3					-1.66 -1.81		Tested					Tested		_			
	2427	MCS0	13.5	16.0	99.3	0.02	×1.00 ×1.01	11.5 13.5	11.34 14.19	-1.66 -1.81	×1.47 ×1.52	Tested	11.5 13.5	11.79 14.34	-1.21 -1.66	×1.32 ×1.47	Tested					tune-up
	2427 2427	MCS0 MCS1	13.5 13.5	16.0 16.0	99.3 98.6	0.02 0.03 0.06	×1.00 ×1.01 ×1.01	11.5 13.5 13.5	11.34 14.19 13.99	-1.66 -1.81	×1.47	-	11.5 13.5 13.5	11.79 14.34 14.26	-1.21 -1.66 -1.74	×1.32						
	2427 2427 2427	MCS0 MCS1 MCS2	13.5 13.5 13.5	16.0 16.0 16.0	99.3 98.6 97.8	0.02 0.03 0.06 0.10	×1.00 ×1.01 ×1.01 ×1.02	11.5 13.5 13.5 13.5	11.34 14.19 13.99 14.00	-1.66 -1.81 -2.01 -2.00	×1.47 ×1.52	Tested	11.5 13.5 13.5 13.5	11.79 14.34 14.26 14.16	-1.21 -1.66 -1.74 -1.84	×1.32 ×1.47						tune-up
	2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3	13.5 13.5 13.5	16.0 16.0 16.0	99.3 98.6 97.8 97.2	0.02 0.03 0.06 0.10 0.12	×1.00 ×1.01 ×1.01 ×1.02 ×1.03	11.5 13.5 13.5 13.5 13.5	11.34 14.19 13.99 14.00 14.05	-1.66 -1.81 -2.01 -2.00 -1.95	×1.47 ×1.52	-	11.5 13.5 13.5 13.5 13.5	11.79 14.34 14.26 14.16 14.21	-1.21 -1.66 -1.74 -1.84 -1.79	×1.32 ×1.47	-					tune-up
11n	2427 2427 2427	MCS0 MCS1 MCS2	13.5 13.5 13.5 13.5	16.0 16.0 16.0	99.3 98.6 97.8 97.2 96.9	0.02 0.03 0.06 0.10 0.12 0.14	×1.00 ×1.01 ×1.01 ×1.02	11.5 13.5 13.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02	×1.47 ×1.52	-	11.5 13.5 13.5 13.5	11.79 14.34 14.26 14.16 14.21 14.09	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91	×1.32 ×1.47	-					tune-up
	2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4	13.5 13.5 13.5 13.5	16.0 16.0 16.0 16.0	99.3 98.6 97.8 97.2 96.9	0.02 0.03 0.06 0.10 0.12 0.14	×1.00 ×1.01 ×1.02 ×1.03 ×1.03	11.5 13.5 13.5 13.5 13.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02	×1.47 ×1.52	-	11.5 13.5 13.5 13.5 13.5 13.5	11.79 14.34 14.26 14.16 14.21 14.09	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91	×1.32 ×1.47	-					tune-up
(40HT)	2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5	13.5 13.5 13.5 13.5 13.0	16.0 16.0 16.0 16.0 15.5	99.3 98.6 97.8 97.2 96.9 94.8	0.02 0.03 0.06 0.10 0.12 0.14 0.23	×1.00 ×1.01 ×1.01 ×1.02 ×1.03 ×1.03 ×1.05	11.5 13.5 13.5 13.5 13.5 13.5 13.0	11.34 14.19 13.99 14.00 14.05 13.98 13.52	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98	×1.47 ×1.52	-	11.5 13.5 13.5 13.5 13.5 13.5 13.0	11.79 14.34 14.26 14.16 14.21 14.09 13.72	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78	×1.32 ×1.47	-					tune-up
	2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5	13.5 13.5 13.5 13.5 13.5 13.0 12.5	16.0 16.0 16.0 16.0 15.5 15.0	99.3 98.6 97.8 97.2 96.9 94.8	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25	×1.00 ×1.01 ×1.02 ×1.03 ×1.03 ×1.05 ×1.06	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06	×1.47 ×1.52	-	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93	×1.32 ×1.47	-					tune-up
(40HT)	2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4	13.5 13.5 13.5 13.5 13.0	16.0 16.0 16.0 16.0 15.5 15.0 14.5	99.3 98.6 97.8 97.2 96.9 94.8 94.3	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27	×1.00 ×1.01 ×1.01 ×1.02 ×1.03 ×1.03 ×1.05	11.5 13.5 13.5 13.5 13.5 13.5 13.0	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91	×1.47 ×1.52 - - - - - -	-	11.5 13.5 13.5 13.5 13.5 13.5 13.0	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78	×1.32 ×1.47	-					tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5	13.5 13.5 13.5 13.5 13.5 13.0 12.5	16.0 16.0 16.0 16.0 15.5 15.0	99.3 98.6 97.8 97.2 96.9 94.8 94.3 93.9 99.3	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25	×1.00 ×1.01 ×1.02 ×1.03 ×1.03 ×1.05 ×1.06	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21	×1.47 ×1.52 - - - - - - - ×1.32	-	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78	×1.32 ×1.47	-					tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5	99.3 98.6 97.8 97.2 96.9 94.8 94.3 93.9 99.3	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03	×1.00 ×1.01 ×1.01 ×1.02 ×1.03 ×1.03 ×1.05 ×1.06 ×1.06	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21	×1.47 ×1.52 - - - - - - - ×1.32	-	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78	×1.32 ×1.47 - - - - - - - - - - - - - - - - - - -	-					tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0	99.3 98.6 97.8 97.2 96.9 94.8 94.3 93.9 99.3	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03	×1.00 ×1.01 ×1.01 ×1.02 ×1.03 ×1.03 ×1.05 ×1.06 ×1.06 ×1.01 ×1.01	11.5 13.5 13.5 13.5 13.5 13.5 12.0 6.0 10.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43	×1.47 ×1.52 	-	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78 -1.71 -1.76	×1.32 ×1.47 - - - - ×1.48 ×1.50	- - - - - -					tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5	99.3 98.6 97.8 97.2 96.9 94.8 94.3 93.9 99.3 99.3	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03	×1.00 ×1.01 ×1.01 ×1.02 ×1.03 ×1.03 ×1.05 ×1.06 ×1.06 ×1.01 ×1.01	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78 -1.71 -1.76 -1.81	×1.32 ×1.47 						tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5	99.3 98.6 97.8 97.2 96.9 94.8 94.3 93.9 99.3 99.3 99.6	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03	X1.00 X1.01 X1.01 X1.02 X1.03 X1.03 X1.05 X1.06 X1.06 X1.01 X1.01 X1.01 X1.00	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98	×1.47 ×1.52 	-	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78 -1.71 -1.76 -1.81 -1.84	×1.32 ×1.47 - - - - ×1.48 ×1.50	- - - - - -	17.5	20.0	18.10	-1.90	tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5	993 986 978 972 969 948 943 939 993 993 993	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03	×1.00 ×1.01 ×1.01 ×1.02 ×1.03 ×1.03 ×1.05 ×1.06 ×1.06 ×1.01 ×1.01	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07	×1.32 ×1.47 	- - - - - - - - - - - - - - - - - - -	17.5 17.5	20.0	17.86	-1.90 -2.14	tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS8 MCS8	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0	993 986 978 972 969 948 943 939 993 993 993	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.02 0.03	X1.00 X1.01 X1.01 X1.02 X1.03 X1.03 X1.05 X1.06 X1.01 X1.01 X1.01 X1.00 X1.00 X1.01	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07	×1.32 ×1.47 - - - - ×1.48 ×1.50 ×1.52 ×1.53		17.5 17.5 17.5	20.0	17.86	-1.90 -2.14 -2.15	tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS8 MCS8 MCS9 MCS10	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0 17.0	993 98.6 97.8 97.2 96.9 94.8 94.3 93.9 99.3 99.3 99.3 99.6	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.03	X1.00 X1.01 X1.01 X1.02 X1.03 X1.03 X1.05 X1.06 X1.01 X1.01	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07	×1.32 ×1.47 - - - ×1.48 ×1.50 ×1.52 ×1.53	- - - - - - - - - - - - - - - - - - -	17.5 17.5 17.5	20.0	17.86 17.85	-1.90 -2.14 -2.15	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS8 MCS9 MCS10	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0 17.0	993 986 978 972 969 948 943 939 993 993 993 993 988 988	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.02 0.03 0.05 0.06	X1.00 X1.01 X1.01 X1.02 X1.03 X1.03 X1.05 X1.06 X1.06 X1.01 X1.01	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.79 6.79 11.24 7.69 15.16 14.93 14.86 14.77	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.71 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23	×1.32 ×1.47 - - - ×1.48 ×1.50 ×1.52 ×1.53		17.5 17.5 17.5	20.0 20.0 20.0	17.86 17.85 17.81	-2.14 -2.15 -2.19	tune-up
(40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS8 MCS8 MCS9 MCS10	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5	16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 9.5 17.0 17.0 17.0	993 986 978 972 969 948 943 993 993 993 993 998 988 986	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.03 0.05 0.06 0.09	X1.00 X1.01 X1.01 X1.02 X1.03 X1.03 X1.05 X1.06 X1.06 X1.01 X1.0	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 10.5 7.0 14.5 14.5 14.5 14.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26	×1.32 ×1.47 - - - ×1.48 ×1.50 ×1.52 ×1.53		17.5 17.5 17.5	20.0 20.0 20.0	17.86 17.85 17.81 17.82	-2.14 -2.15 -2.19	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS8 MCS9 MCS10 MCS11 MCS12	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0 17.0	993 986 978 972 969 948 943 993 993 993 993 998 988 986	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.02 0.03 0.05 0.06	X1.00 X1.01 X1.01 X1.02 X1.03 X1.03 X1.05 X1.06 X1.06 X1.01 X1.01	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.79 6.79 11.24 7.69 15.16 14.93 14.86 14.77	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26	×1.32 ×1.47 		17.5 17.5 17.5	20.0 20.0 20.0	17.86 17.85 17.81	-2.14 -2.15 -2.19	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS8 MCS9 MCS10 MCS11 MCS11	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 17.0 16.5	993 986 978 972 969 948 943 939 993 993 993 996 993 988 986 979	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.05 0.06	X1.00 X1.01 X1.01 X1.03 X1.03 X1.03 X1.05 X1.06 X1.01 X1.0	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31	×1.32 ×1.47 - - - - ×1.48 ×1.50 ×1.52 ×1.53		17.5 17.5 17.5 17.5 17.0	20.0 20.0 20.0 20.0 19.5	17.86 17.85 17.81 17.82 17.29	-2.14 -2.15 -2.19	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS8 MCS9 MCS10 MCS11 MCS12 MCS13 MCS13	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 17.0 16.5 16.0	993 986 978 972 969 948 943 933 993 993 993 988 986 979 973 968	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.02 0.03 0.05 0.06	X1.00 X1.01 X1.02 X1.03 X1.03 X1.03 X1.05 X1.06 X1.06 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.02 X1.03 X1.0	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 14.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18	×1.47 ×1.52 	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 7.0 14.5 14.5 14.5 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.23 -2.23 -2.27	×1.32 ×1.47 		17.5 17.5 17.5 17.5 17.0	20.0 20.0 20.0 20.0 19.5 19.0	17.86 17.85 17.81 17.82 17.29 16.77	-2.14 -2.15 -2.19	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS11 MCS11 MCS12 MCS13	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 14.5 14.0	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0 17.0 17.0 17.0 17.0 16.5 16.0 15.5	993 986 978 972 969 948 943 933 993 993 993 988 986 979 973 968	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.03 0.05 0.05 0.09 0.12 0.14	X1.00 X1.01 X1.02 X1.03 X1.03 X1.03 X1.06 X1.06 X1.06 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.03 X1.0	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.0 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37 13.79 13.31	-1.66 -1.81 -2.01 -2.02 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18 -2.13 -2.13 -2.21 -2.19	×1.47 ×1.52	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 14.5 13.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.78 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.23 -2.23 -2.27 -2.24	×132 ×147 		17.5 17.5 17.5 17.5 17.0 16.5 16.0	20.0 20.0 20.0 20.0 19.5 19.0 18.5	17.86 17.85 17.81 17.82 17.29 16.77 16.30	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS8 MCS9 MCS10 MCS11 MCS12 MCS13 MCS13	13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 14.5 14.0 13.5 13.0 10.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 17.0 16.5 13.0	993 986 978 972 969 948 943 933 993 993 993 993 988 986 979 973 968 964	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0	X1.00 X1.01 X1.01 X1.02 X1.03 X1.05 X1.06 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.02 X1.03 X1.03 X1.03 X1.04 X1.04 X1.04 X1.05 X1.0	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 13.0	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.31 11.79	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18 -2.13 -2.13 -2.13 -2.13 -2.19 -1.21	×1.47 ×1.52	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.0 12.0 12.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 13.0 10.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.23 -2.23 -2.27	×1.32 ×1.47 		17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS8 MCS9 MCS1 MCS11 MCS115 MCS115 MCS15 MCS15 MCS15	13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 14.5 14.0 13.5 13.0 10.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 17.0 16.5 13.0	993 986 978 972 969 948 943 933 993 993 993 993 988 986 979 973 968 964	0.02 0.03 0.06 0.10 0.12 0.14 0.25 0.03 0.05 0.00 0.00 0.00 0.00 0.00 0.0	X1.00 X1.01 X1.01 X1.02 X1.03 X1.05 X1.06 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.01 X1.02 X1.03 X1.03 X1.03 X1.04 X1.04 X1.04 X1.05 X1.0	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 13.0	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.31 11.79	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18 -2.13 -2.13 -2.13 -2.13 -2.19 -1.21	×1.47 ×1.52	- - - - - - - - - - - -	11.5 13.5 13.5 13.5 13.5 13.0 12.0 12.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 13.0 10.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.71 -1.76 -1.81 -1.84 -2.23 -2.26 -2.31 -2.27 -2.24 -1.73	×1.32 ×1.47 	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS10 MCS10 MCS11 MCS12 MCS13 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1	13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 10.5 7.0 14.5 14.5 14.5 14.5 14.0 13.5 14.5 1	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 16.5 13.0 15.5 13.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.0	99.3 98.6 97.8 97.2 96.9 94.8 94.3 99.4 99.4 99.5	0.02 0.03 0.06 0.10 0.12 0.23 0.25 0.27 0.03 0.03 0.00	X1.000	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 14.5 14.5 14.5 14.5 14.0 13.5 13.0 10.5 13.0 14.5 14.5 14.5 14.5 14.0 10.5 10.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37 13.79 13.31 11.79 13.66	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.21 -2.19 -2.18 -2.13 -2.13 -2.21 -2.11 -2.13 -1.34	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 13.0 10.5 13.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.79 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.71 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -2.24 -1.73 -1.00	×1.32 ×1.47	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 18.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.16	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2422 2437 2417 2417 2417 2417 2417 2417 2417 241	MCS0. MCS1 MCS2 MCS3 MCS4 MCS6 MCS7 MCS6 MCS7 MCS9 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.0 13.5 14.5 14.5 14.5 14.5 14.0 13.0 10.5	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0 17.0 17.0 16.5 13.0 15.5 13.0 17.0 17.0 17.0 17.0 15.5 13.0 15.5 13.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	99.3 98.6 97.8 97.2 96.9 94.8 94.3 93.9 99.3 99.3 99.3 98.8 97.2 99.3	0.02 0.03 0.06 0.10 0.12 0.23 0.25 0.27 0.03 0.03 0.03 0.03 0.00	X 000 X 010 X	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 13.0 13.5 13.5 14.5 14.5 14.5 13.5 13.5 13.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.34 14.19 13.99 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.31 11.79 13.66 11.50	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18 -2.13 -2.13 -2.13 -2.11 -1.34 -1.50	×1.47 ×1.52 	no (*2)	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.71 -1.76 -1.81 -1.84 -2.07 -2.24 -2.23 -2.26 -2.31 -2.27 -2.27 -2.27 -2.27 -2.27 -2.27 -2.27 -1.30 -1.30	×1.32 ×1.47 	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 13.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 18.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS10 MCS10 MCS11 MCS12 MCS13 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1	13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 10.5 7.0 14.5 14.5 14.5 14.5 14.0 13.5 14.5 1	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 16.5 13.0 15.5 13.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.0	99.3 98.6 97.8 97.2 96.9 94.8 94.3 93.3 99.3 99.3 99.3 98.8 98.6 97.9 97.3 96.4 99.6	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.05 0.07 0.03 0.03 0.03 0.03 0.05 0.06 0.00	X1.000 X1.001 X	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 14.5 14.5 14.5 14.5 14.0 13.5 13.0 10.5 13.0 14.5 14.5 14.5 14.5 14.0 10.5 10.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.31 11.79 13.66 11.50 14.18	-1.66 -1.81 -2.01 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.19 -2.13 -2.13 -2.13 -2.13 -1.50 -1.82	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 13.0 10.5 13.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.79 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00	-1.21 -1.66 -1.74 -1.84 -1.93 -1.78 -1.93 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -2.24 -1.70 -1.30 -1.74	×1.32 ×1.47	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 13.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 18.0 16.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.16	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2422 2437 2417 2417 2417 2417 2417 2417 2417 241	MCS0. MCS1 MCS2 MCS3 MCS4 MCS6 MCS7 MCS6 MCS7 MCS9 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	13.5 13.5 13.5 13.5 13.5 12.0 60 10.5 7.0 14.5 14.5 14.5 14.0 13.5 13.0 13.5 13.5 13.5 14.5 14.5 14.5 14.5 15.5 15.	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0 17.0 17.0 16.5 13.0 15.5 13.0 17.0 17.0 17.0 17.0 15.5 13.0 15.5 13.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	99.3 98.6 97.8 97.2 96.9 94.8 94.3 93.3 99.3 99.3 99.3 98.8 98.6 97.9 97.3 96.4 99.6	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.05 0.07 0.03 0.03 0.03 0.03 0.05 0.06 0.00	X 000 X 010 X	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 13.0 13.5 13.5 14.5 14.5 14.5 13.5 13.5 13.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.34 14.19 13.99 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.31 11.79 13.66 11.50	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18 -2.13 -2.13 -2.13 -2.11 -1.34 -1.50	×1.47 ×1.52 	no (*2)	11.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.71 -1.76 -1.81 -1.84 -2.07 -2.24 -2.23 -2.26 -2.31 -2.27 -2.27 -2.27 -2.27 -2.27 -2.27 -2.27 -1.30 -1.30	×1.32 ×1.47 	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 13.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 18.0 16.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS4 MCS6 MCS6 MCS0 MCS0 MCS0 MCS0 MCS0 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1	13.5 13.5 13.5 13.5 13.5 13.5 13.5 12.5 10.5 14.5 14.5 14.5 14.5 13.0 10.5 	16.0 16.0 16.0 16.0 15.5 15.0 14.5 13.0 17.0 17.0 17.0 17.0 15.5 13.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	99.3 98.6 97.8 97.2 96.9 99.3	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.03 0.03 0.05 0.00	X1.000 X1.001 X1.001 X1.001 X1.001 X1.001 X1.002 X1.005 X1.005 X1.005 X1.005 X1.005 X1.005 X1.005 X1.001 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37 13.79 13.31 11.79 13.60 14.18 14.04	-1.66 -1.81 -2.01 -2.02 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.13 -2.13 -2.13 -2.13 -1.34 -1.50 -1.82 -1.96	×1.47 ×1.52 	no (*2)	11.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 10.5 7.0 14.5 14.5 14.5 14.5 14.0 10.5 13.5 13.0 10.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 15.5 16.5 16.5 16.5 16.5 16.5 16.5 16	11.79 14.34 14.26 14.16 14.21 13.72 13.07 12.79 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.10	-1.21 -1.66 -1.74 -1.84 -1.99 -1.91 -1.78 -1.93 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -2.24 -1.73 -1.00 -1.30 -1.74 -1.90	×1.32 ×1.47 	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 13.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 18.0 16.0 19.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39 -1.77 -1.92	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS3 MCS6 MCS6 MCS0	13.5 13.5 13.5 13.5 13.5 13.5 12.5 12.5 14.5 14.5 14.5 14.5 13.5 13.0 10.5 	16.0 16.0 16.0 16.0 15.5 15.0 14.5 13.0 17.0 17.0 17.0 17.0 15.5 13.0 17.0 17.0 15.5 13.0 15.5 13.0 17.0 17.0 17.0 15.5 13.0 15.5 15.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	99.3 98.6 97.8 97.2 96.9 94.8 94.8 94.8 94.8 94.8 95.3 99.3 99.3 99.3 98.8 98.6 97.9 97.2 99.3 99.3 99.3 98.6 98.6 99.9 99.6	0.00 0.00 0.10 0.10 0.12 0.14 0.23 0.25 0.27 0.27 0.23 0.03	X 00 X 01 X 02 X 03 X 05 X 06 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 12.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37 13.79 13.66 11.50 14.18 14.18 14.18 14.20 14.31 14.40 14.04	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.213 -2.13 -2.13 -2.13 -2.13 -2.13 -2.13 -1.134 -1.50 -1.82 -1.96 -1.96	×1.47 ×1.52 	no (*2)	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.10 14.11	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.76 -1.81 -1.84 -2.23 -2.26 -2.31 -2.27 -1.73 -1.00 -1.30 -1.73 -1.73 -1.74 -1.74 -1.75 -1.81 -1.81 -1.84 -1	X132 X147	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 13.5 16.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 18.0 16.0 19.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09	2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39 -1.77 -1.92 -1.91	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS3 MCS6 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS1	13.5 13.5 13.5 13.5 13.5 13.5 12.5 12.0 10.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5 	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0 17.0 17.0 17.0 17.0 15.5 13.0 15.5 13.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	99.3 98.6 97.8 97.2 94.8 94.3 93.9 99.3 99.3 99.3 99.3 99.6	0.00 0.00 0.10 0.10 0.12 0.14 0.23 0.25 0.27 0.03	X 000 X 001 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.31 11.79 13.66 11.50 14.18 14.04 14.04 14.04 14.04 14.04 14.09	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18 -2.13 -2.13 -2.13 -2.13 -2.13 -1.50 -1.82 -1.96	×1.47 ×1.52 	no (*2)	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 14.00 11.70 14.26 14.11 13.98	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -2.17 -1.00 -1.30 -1.74 -1.90 -1.89 -2.02	×1.32 ×1.47 	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 13.5 16.5 16.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 18.0 19.0 19.0 19.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09 16.99	-2.14 -2.15 -2.19 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39 -1.77 -1.92 -1.91 -2.01	tune-up
(40HT) (1Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS3 MCS6 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS1	13.5 13.5 13.5 13.5 13.5 13.5 12.5 12.0 10.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5 	16.0 16.0 16.0 16.0 15.5 15.0 14.5 13.0 17.0 17.0 17.0 17.0 15.5 13.0 17.0 17.0 15.5 13.0 15.5 13.0 17.0 17.0 17.0 15.5 13.0 15.5 15.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	99.3 98.6 97.8 97.2 93.9 94.8 94.3 93.9 99.3 99.3 99.3 99.3 99.3 99.6	0.00 0.00 0.10 0.10 0.12 0.14 0.23 0.05 0.07 0.00	X 00 X 01 X 02 X 03 X 05 X 06 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 12.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.59 10.57 7.54 15.02 14.76 14.87 14.87 14.37 13.79 13.31 11.79 13.66 11.50 14.18 14.04 14.04 14.04 14.04 14.04 13.99 13.85	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18 -2.13 -2.13 -2.13 -2.13 -2.13 -1.50 -1.82 -1.96	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.10 14.11	-1.21 -1.66 -1.74 -1.84 -1.79 -1.93 -1.78 -1.71 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -2.24 -1.73 -1.00 -1.30 -1.74 -1.90 -1	X132 X147	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 16.5 16.5 16.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 19.0 19.0 19.0 19.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09	-2.14 -2.15 -2.19 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39 -1.77 -1.92 -1.91 -2.01	tune-up
(40HT) (1Tx) 11n (20HT) (2Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS3 MCS6 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS0 MCS1 MCS11 MCS114 MCS12 MCS13 MCS14 MCS13 MCS14 MCS13 MCS8 MCS8 MCS8 MCS9 MCS10	13.5 13.5 13.5 13.5 13.5 13.5 12.5 12.5 12.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5 	16.0 16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 17.0 17.0 17.0 17.0 16.0 15.5 13.0 15.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16	99.3 98.6 97.8 97.2 93.9 94.8 94.3 93.9 99.3 99.3 99.3 99.3 99.6	0.00 0.00 0.10 0.10 0.12 0.14 0.23 0.05 0.07 0.00	X 000 X 010 X	11.5 13.5 13.5 13.5 13.5 13.0 12.0 12.5 12.0 14.5 14.5 14.5 14.5 13.0 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.59 10.57 7.54 15.02 14.76 14.87 14.87 14.37 13.79 13.31 11.79 13.66 11.50 14.18 14.04 14.04 14.04 14.04 14.04 13.99 13.85	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.18 -2.13 -2.13 -2.13 -2.13 -2.13 -1.50 -1.82 -1.96	×1.47 ×1.52 	no (*2)	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 14.00 11.70 14.26 14.11 13.98	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.78 -1.93 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -2.17 -1.00 -1.30 -1.74 -1.90 -1.89 -2.02	X132 X147	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 16.5 16.5 16.5 16.5 16.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 19.0 19.0 19.0 19.0 19.0 19.0 18.5	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09 16.99 16.89	-2.14 -2.15 -2.19 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39 -1.77 -1.92 -1.91 -2.01	tune-up
(40HT) (1Tx) 11n (20HT) (2Tx) 11n (40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS3 MCS6 MCS6 MCS0 MCS0 MCS0 MCS0 MCS0 MCS10 MCS10 MCS11 MCS12 MCS13	13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 6.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 13.0 13.5 1	16.0 16.0 16.0 16.0 15.5 15.0 14.5 8.5 13.0 9.5 17.0 17.0 17.0 17.0 16.5 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16	993 9866 978 969 948 943 939 993 993 993 993 988 986 964 979 973 968 964 966 976 976 976 976 976 976 976	0.02 0.03 0.06 0.10 0.12 0.12 0.13 0.05 0.03 0.03 0.03 0.03 0.05 0.03 0.05 0.04 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.05	X 000 X 010 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.6 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.31 11.79 13.66 11.50 14.18 14.04 14.04 14.04 13.98	-1.66 -1.81 -2.01 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.13 -2.13 -2.13 -2.13 -1.134 -1.50 -1.82 -1.96 -2.01 -1.96 -2.01 -1.96 -2.01 -2.05 -1.96 -2.01 -2.05	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.0 12.0 10.5 14.5 14.5 14.5 14.0 13.5 13.0 10.5 13.5 13.0 10.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.10 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.10 14.11 13.98 13.90 13.28	-1.21 -1.66 -1.74 -1.84 -1.93 -1.78 -1.93 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -2.24 -1.30 -1.30 -1.30 -1.90 -1	X132 X147	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 16.5 16.5 16.5 16.5 16.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 19.0 19.0 19.0 19.0 19.0 19.0 18.5	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09 16.99 16.89 16.35	-2.14 -2.15 -2.19 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39 -1.77 -1.92 -1.91 -2.01 -2.11 -2.11 -2.15	tune-up
(40HT) (1Tx) 11n (20HT) (2Tx)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS6 MCS6 MCS6 MCS7 MCS0 MCS0 MCS10 MCS10 MCS11 MCS12 MCS13 MCS12 MCS13 MCS13 MCS14 MCS13 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS13 MCS14 MCS14 MCS14 MCS15 MCS14 MCS14 MCS15 MCS14 MCS16 MCS1	13.5 13.5 13.5 13.5 13.5 13.5 13.5 12.0 6.0 10.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5 1	16.0 16.0 16.0 15.3 15.0 14.5 8.5 17.0 17.0 17.0 16.5 13.0 16.0 15.5 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16	99.3 98.6 97.8 96.9 94.8 94.3 93.9 99.3	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.05 0.07 0.03 0.03 0.03 0.05 0.06 0.00	X 000 X 010 X 010 X 010 X 010 X 010 X 020 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 14.5 14.5 14.5 14.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 7.29 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.31 11.79 13.31 11.79 13.66 11.50 14.18 14.04 14.04 13.98 13.85 13.98	-1.66 -1.81 -2.01 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.13 -2.13 -2.13 -2.13 -1.21 -1.34 -1.50 -1.82 -1.96 -1.96 -2.01 -2.01 -2.01 -2.01 -1.98	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.0 12.0 10.5 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.10 14.11 13.98 13.28 12.88	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -2.24 -1.73 -1.90 -1.30 -1.74 -1.90 -1.89 -2.02 -2.10 -2.22 -2.12	×1.32 ×1.47	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 13.5 16.5 16.5 16.5 16.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 19.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09 16.99 16.89 16.35 15.96	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.16 -1.39 -1.77 -1.92 -1.91 -2.01 -2.11 -2.15 -2.04	tune-up
(40HT) (1Tx) 11n (20HT) (2Tx) 11n (40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS3 MCS6 MCS6 MCS0 MCS0 MCS0 MCS0 MCS0 MCS10 MCS10 MCS11 MCS12 MCS13	13.5 13.5 13.5 13.5 13.5 13.0 12.5 14.5 14.5 14.5 14.5 14.5 13.0 10.5 13.0 10.5 13.0 10.5 13.0 13.5 	16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 16.0 17.0 17.0 17.0 16.0 1	99.3 98.6 97.8 96.9 94.8 94.3 93.9 99.3 99.3 99.6 99.3 98.8 96.4 99.6	0.00 0.00 0.10 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.00	X 000 X 001 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37 13.79 13.66 11.50 14.18 14.04 14.04 14.04 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.213 -2.13 -2.13 -2.13 -2.13 -2.13 -2.13 -2.13 -2.15 -1.96 -1.96 -1.96 -1.96 -1.96 -1.96 -1.98 -1.98 -1.98	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 10.5 7.0 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.10 14.11 13.98 13.98 13.90 13.28 12.88 12.88	-1.21 -1.66 -1.74 -1.84 -1.79 -1.176 -1.81 -1.84 -2.23 -2.26 -2.31 -2.23 -2.26 -2.31 -2.27 -1.70 -1.73 -1.00 -1.30 -1.79 -1.79 -1.89 -1.79 -1.70 -1.89 -1.70 -1.89 -1.70 -1.89 -1.70 -1.89 -1.70 -1.70 -1.70 -1.80 -1.70 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -	X132 X147	no (*2)	17.5 17.5 17.5 17.5 17.5 16.5 16.0 13.5 15.5 13.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 19.0 19.0 19.0 19.0 19.0 19.0 18.5 18.5 19.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09 16.89 16.35 15.96 15.61	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.39 -1.79 -1.91 -2.01 -2.11 -2.15 -2.04 -1.89	tune-up
(40HT) (1Tx) 11n (20HT) (2Tx) 11n (40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS6 MCS6 MCS6 MCS7 MCS0 MCS0 MCS0 MCS1	13.5 13.5 13.5 13.5 13.5 13.5 13.5 12.0 6.0 10.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5 1	16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 16.0 17.0 17.0 17.0 16.0 1	99.3 98.6 97.8 96.9 94.8 94.3 93.9 99.3	0.00 0.00 0.10 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.00	X 000 X 001 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 14.5 14.5 14.5 14.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37 13.79 13.66 11.50 14.18 14.04 14.04 14.04 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99	-1.66 -1.81 -2.01 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.24 -2.19 -2.13 -2.13 -2.13 -2.13 -1.21 -1.34 -1.50 -1.82 -1.96 -1.96 -2.01 -2.01 -2.01 -2.01 -1.98	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.0 12.0 10.5 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.10 14.11 13.98 13.98 13.90 13.28 12.88 12.88	-1.21 -1.66 -1.74 -1.84 -1.79 -1.176 -1.81 -1.84 -2.23 -2.26 -2.31 -2.23 -2.26 -2.31 -2.27 -1.70 -1.73 -1.00 -1.30 -1.79 -1.79 -1.89 -1.79 -1.70 -1.89 -1.70 -1.89 -1.70 -1.89 -1.70 -1.89 -1.70 -1.70 -1.70 -1.80 -1.70 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -	X132 X147	no (*2)	17.5 17.5 17.5 17.5 17.5 16.5 16.0 13.5 15.5 13.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 19.0 19.0 19.0 19.0 19.0 19.0 18.5 18.5 19.0	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09 16.99 16.89 16.35 15.96	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.16 -1.39 -1.77 -1.92 -1.91 -2.01 -2.11 -2.15 -2.04	tune-up
(40HT) (1Tx) 11n (20HT) (2Tx) 11n (40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS3 MCS6 MCS7 MCS0 MCS0 MCS0 MCS0 MCS0 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1 MCS1	13.5 13.5 13.5 13.5 13.5 13.5 13.5 12.0 10.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5 	16.0 16.0 16.0 15.5 15.0 17.0 17.0 17.0 17.0 17.0 16.5 16.0 15.5 16.0 15.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16	993 9866 9782 969 948 943 939 993 993 993 993 986 973 986 996 996 996 996 996 996 996 996 996	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.25 0.27 0.03 0.03 0.03 0.02 0.03 0.05 0.00	X 000 X 001 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 14.5 14.5 14.5 14.5 14.5 14.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 10.57 7.54 15.02 14.76 14.81 14.82 14.87 13.79 13.66 11.50 14.18 14.04 13.99 13.85 13.40 13.02 13.02 13.02 14.04 13.09 13.02 13.03 13.02 13.	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.21 -2.13 -2.13 -2.13 -2.13 -2.13 -2.13 -1.50 -1.82 -1.96 -1.96 -1.98 -1.98 -1.98 -1.98 -1.98 -1.98 -1.98 -1.98	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.0 10.5 7.0 14.5 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.10 13.72 13.07 12.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.11 13.98 13.90 13.28 12.88 6.97	-1.21 -1.66 -1.74 -1.84 -1.79 -1.91 -1.76 -1.81 -1.84 -2.07 -2.14 -2.23 -2.26 -2.31 -2.27 -1.30 -1.30 -1.79 -1.89 -2.02 -2.10 -2.22 -1.53	x1.32	no (*2)	17.5 17.5 17.5 17.5 17.5 16.0 13.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09 16.89 16.35 15.96 15.61 10.19	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39 -1.77 -1.92 -1.91 -2.01 -2.11 -2.11 -2.11 -2.11 -2.15 -2.04 -1.89 -1.31	tune-up
(40HT) (1Tx) 11n (20HT) (2Tx) 11n (40HT)	2427 2427 2427 2427 2427 2427 2427 2427	MCS0 MCS1 MCS2 MCS3 MCS6 MCS6 MCS6 MCS7 MCS0 MCS0 MCS0 MCS1	13.5 13.5 13.5 13.5 13.5 13.0 12.5 14.5 14.5 14.5 14.5 14.5 13.0 10.5 13.0 10.5 13.0 10.5 13.0 13.5 	16.0 16.0 16.0 15.5 15.0 14.5 8.5 17.0 17.0 17.0 17.0 16.0 17.0 17.0 17.0 16.0 1	993 986 978 948 943 939 993 993 993 993 993 998 997 973 968 996 996 996 996 996 996 996	0.02 0.03 0.06 0.10 0.12 0.14 0.23 0.05 0.07 0.03 0.03 0.03 0.03 0.03 0.04 0.00	X 000 X 001 X	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 14.5 14.5 14.5 14.5 14.5 13.5	11.34 14.19 13.99 14.00 14.05 13.98 13.52 12.94 12.59 10.57 7.54 15.02 14.76 14.81 14.82 14.87 14.37 13.79 13.66 11.50 14.18 14.04 14.04 14.04 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99 13.85 13.40 13.99	-1.66 -1.81 -2.01 -2.00 -1.95 -2.02 -1.98 -2.06 -1.91 -1.21 -2.43 -1.96 -1.98 -2.213 -2.13 -2.13 -2.13 -2.13 -2.13 -2.13 -2.13 -2.15 -1.96 -1.96 -1.96 -1.96 -1.96 -1.96 -1.98 -1.98 -1.98	×1.47 ×1.52	no (*2)	11.5 13.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 12.0 10.5 7.0 14.5 14.5 14.5 14.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13	11.79 14.34 14.26 14.16 14.21 14.09 13.72 13.07 12.72 6.79 11.24 7.69 15.16 14.93 14.86 14.77 14.74 14.19 13.73 13.26 11.27 14.00 11.70 14.26 14.10 14.11 13.98 13.98 13.90 13.28 12.88 12.88	-1.21 -1.66 -1.74 -1.84 -1.79 -1.176 -1.81 -1.84 -2.23 -2.26 -2.31 -2.23 -2.26 -2.31 -2.27 -1.70 -1.73 -1.00 -1.30 -1.79 -1.79 -1.89 -1.79 -1.70 -1.89 -1.70 -1.89 -1.70 -1.89 -1.70 -1.89 -1.70 -1.70 -1.70 -1.80 -1.70 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -1.70 -1.80 -	X132 X147	no (*2)	17.5 17.5 17.5 17.5 17.0 16.5 16.0 13.5 15.5 16.5 16.5 16.5 16.5 16.5 16.5 16	20.0 20.0 20.0 20.0 19.5 19.0 18.5 16.0 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	17.86 17.85 17.81 17.82 17.29 16.77 16.30 14.55 16.84 14.61 17.23 17.08 17.09 16.89 16.35 15.96 15.61	-2.14 -2.15 -2.19 -2.18 -2.21 -2.23 -2.20 -1.45 -1.16 -1.39 -1.77 -1.92 -1.91 -2.01 -2.11 -2.15 -2.04 -1.89 -1.31 -1.92	tune-up

[:] SAR test was applied. *. xx.xx highlight is shown the maximum measured output power.

^{*1. (}KDB248227 D01 (v02r02)) The reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤0.8 W/kg.
*2. (KDB447498 D01 (v06)) Since SPLSR (SAR to peak location separation ratio) was enough smaller than 0.04, SAR test of MIMO mode was reduced.
*. Date measured February 3 and 4, 2016 / measured by: H. Naka (21 ± 2 deg C / 50 ± 5 %RH, at preparation room of S/R#7)

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FCC ID : W2Z-01000007

6.1.2 5GHz band

0.1.2		JIIZ Į																			
		_	Power	r spec.	I	Outy cy	cle	- /	Antenna :	#0 (chair	#0) pow	/er		Antenna	#1 (chair	1#1) pow	er	MIMO Ant.#0+	Ant#1 n	ower	
	Freq.	Data	10110	Г Бресе.		l ey		Set	IIICIII (l I	Set	HICHIG					SUM	Δ	Power
Mode	racq.	rate	Typical	Max.	duty	factor	scaled		Ave.	Δ	Tune-up	SAR		Ave.	Δ	Tune-up	SAR				
		ļ		Į.	cycle		factor	pwr.		Max.	factor	Tested?	pwr.		Max.	factor	Tested?			Max.	Tune
	[MHz]	[Mbps]	[dBm]	[dBm]	[%]	[dB]	[-]	[dBm]	[dBm]	[dB]	[-]		[dBm]	[dBm]	[dB]	[-]		[dBm] [dBm] [dBm]	[dB]	-up?
	5500	6	15.0	17.5	99.7	0.01	$\times 1.00$	15.0	14.93	-2.57	×1.81	-	15.0	14.60	-2.90	×1.95	_				
		9	15.0						14.92	-2.58 -2.63	A1.01				-2.96	- ~1.75					
	5500	9		17.5	99.6	0.02	×1.00	15.0		-2.58		-	15.0	14.54		-	-				
	5500	12	15.0	17.5	99.2	0.03	$\times 1.01$	15.0	14.87	-2.63	-	-	15.0	14.51	-2.99	-	-				-
	5500	18	15.0	17.5	98.9	0.05	×1.01	15.0	14.81	-2.63 -2.69 -2.78 -2.73 -2.74	-	-	15.0	14.54	-2.96		-				-
	5500	24	15.0	17.5	98.8	0.05	×1.01	15.0	14.72	2.78			15.0	14.53	-2.97						
		24								-2.70	ļ										
	5500	36 48	15.0	17.5	98.1	0.08	×1.02	15.0	14.77	-2.73		-	15.0	14.49	-3.01	-	-				-
	5500	48	15.0	17.5	97.3	0.12	$\times 1.03$	15.0	14.76	-2.74	-	-	15.0	14.46	-3.04	-	-				-
	5500	56	14.0	16.5	97.0	0.13	×1.03	14.0	13.78	-2.72	-	_	14.0	13.16	-3.34	-	-				-
												7C ()									
	5180	6	12.5	15.0	99.7	0.01	×1.00	15.0	13.70	-1.30	×1.35	Tested	15.0	13.50	-1.50	×1.41	Tested				tune-up
	5220	6	12.5	15.0	99.7	0.01	×1.00	15.0	13.91	-1.09	×1.29	1	15.0	13.58	-1.42	×1.39					tune-up
11a	5240	6	12.5	15.0	99.7	0.01	×1.00	15.0	14.00	-1.00	×1.26		15.0	13.69	-1.31	×1.35	-				tune-up
	5260	6	12.5	15.0		0.01	×1.00	15.0	13.67	-1.33	×1.36	Tested	15.0	13.55	-1.45	×1.40	Tested				
																					tune-up
	5300	6	12.5	15.0		0.01	×1.00	15.0	13.94	-1.06	×1.28	Tested	15.0	13.56	-1.44	×1.39	Tested				tune-up
	5320	6	12.5	15.0	99.7	0.01	$\times 1.00$	15.0	13.88	-1.12	×1.29	Tested	15.0	13.84	-1.16	×1.31	Tested				tune-up
i	5500	6	15.0	17.5	99.7	0.01	×1.00	16.5	15.99	-1.51	×1.42	Tested	16.5	16.18	-1.32	×1.36	Tested				
																					tune-up
	5580	6	15.0	17.5	99.7	0.01	×1.00		16.39	-1.11	×1.29	Tested	16.5	16.14	-1.36	×1.37	Tested				tune-up
	5600	6	15.0	17.5	99.7	0.01	$\times 1.00$	16.5	16.38	-1.12	×1.29	Tested	16.5	16.13	-1.37	×1.37	Tested				tune-up
	5700	6	15.0	17.5	99.7	0.01	×1.00	16.5	15.95	-1.55	×1.43	Tested	16.5	15.80	-1.70	×1.48	Tested				
																					tune-up
	5745	6	15.0	17.5	99.7	0.01	×1.00	17.0	15.95	-1.55	×1.43	Tested	17.0	15.91	-1.59	×1.44	Tested				tune-up
	5785	6	15.0	17.5	99.7	0.01	×1.00	17.0	15.93	-1.57	×1.44	Tested	17.0	15.99	-1.51	×1.42	Tested				tune-up
	5825	6	15.0	17.5	99.7	0.01	×1.00	17.0	16.05	-1.45	×1.40	Tested	17.0	16.39	-1.11	×1.29	Tested				
		_					_										_				tune-up
	5500	MCS0	13.5	16.0	99.6	0.02	×1.00	13.5	13.66	-2.34 -2.38	×1.71	l -	13.5	12.76	-3.24	×2.11	-				-
	5500	MCS1	13.5	16.0	99.3	0.03	×1.01	13.5	13.62	-2 38	-	l -	13.5	12.75	-3.25	-	-				-
										2.20	ļ					·					
	5500	MCS2	13.5	16.0	98.9	0.05	×1.01	13.5	13.61	-2.39		-	13.5	12.74	-3.26	-	-				-
	5500	MCS3	13.5	16.0	98.6	0.06	$\times 1.01$	13.5	13.47	-2.53	-	-	13.5	12.74	-3.26	-	-				-
	5500	MCS4	13.5	16.0	98.1	0.08	×1.02	13.5	13.47	-2.39 -2.53 -2.53	-	-	13.5	12.69	-3.31	_	_				_
										2.72	}					ł					·····
	5500	MCS5 MCS6	12.5	15.0		0.11	×1.03	12.5	12.28	-2.72 -2.98	-	-	12.5	12.18	-2.82	-	-				-
	5500	MCS6	10.5	13.0	97.0	0.13	×1.03	10.5	10.02	-2.98	-	-	10.5	9.87	-3.13	-	-				-
	5500	MCS7	8.5	11.0		0.15	×1.04	8.5	8.18	-2.82		_	8.5	7.35	-3.65	-	-				-
							_														
	5180	MCS0	11.0	13.5	99.6	0.02	×1.00	13.5	12.04	-1.46	×1.40	l	13.5	12.56	-0.94	×1.24					tune-up
11n	5220	MCS0	11.0	13.5	99.6	0.02	$\times 1.00$	13.5	12.26	-1.24	×1.33	-	13.5	12.75	-0.75	×1.19	no (*1)				tune-up
(20HT)	5240	MCS0	11.0	13.5	99.6	0.02	×1.00		12.37	-1.13	×1.30	no (*1)	13.5	12.30	-1.20	×1.32	-				tune-up
												110 (1)									_
(1Tx)	5260	MCS0	11.0	13.5	99.6	0.02	×1.00	13.5	12.22	-1.28	×1.34	l <i>:</i>	13.5	12.41	-1.09	×1.29	no (*1)				tune-up
	5300	MCS0	11.0	13.5	99.6	0.02	$\times 1.00$	13.5	12.54	-0.96	×1.25	-	13.5	12.38	-1.12	×1.29	-				tune-up
	5320	MCS0	11.0	13.5	99.6	0.02	×1.00	13.5	12.65	-0.85	×1.22	no (*1)	13.5	12.27	-1.23	×1.33	-				tune-up
											1.20	110 (1)									
	5500	MCS0	13.5	16.0	99.6	0.02	×1.00 ×1.00	15.0	14.90	-1.10	×1.29 ×1.25 ×1.25	l .	15.0	14.60	-1.40	×1.38					tune-up
	5580	MCS0	13.5	16.0	99.6	0.02	$\times 1.00$	15.0	15.03	-0.97	×1.25	-	15.0	14.74	-1.26	×1.34	no (*1)				tune-up
	5600	MCS0		16.0					15.03	-0.97	×1.25	no (*1)	15.0		-1.30	×1.35					tune-up
											1.23	10(1)									
	5700	MCS0	13.5	16.0		0.02	$\times 1.00$		14.76	-1.24	×1.33	-	15.0	14.63	-1.37	×1.37	-				tune-up
	5745	MCS0	13.5	16.0	99.6	0.02	×1.00	16.0	15.02	-0.98	×1.25	no (*1)	16.0	14.98	-1.02	×1.26	-				tune-up
	5785	MCS0	13.5	16.0	99.6	0.02		16.0	14.81	-1.19	×1.32		16.0	14.98	-1.02	×1.26					tune-up
												<i>-</i>									
	5825	MCS0	13.5	16.0		0.02	$\times 1.00$	16.0	14.82	-1.18	×1.31		16.0	15.37	-0.63	×1.16	no (*1)				tune-up
	5510	MCS0	11.0	13.5	99.3	0.03	×1.01	11	10.82	-2.68	×1.85	-	13.5	10.44	-3.06	×2.02	-				
	5510	MCS1	11.0	13.5	98.9	0.05	×1.01	11	10.81	-2.69	_	-	13.5	10.33	-3.17		_				
										2.07	ļ						<u>-</u>				<u>-</u>
	5510	MCS2 MCS3	11.0	13.5		0.09	×1.02	11	10.81	-2.69	ļ <u>-</u>	L	13.5	10.21	-3.29	-	-				-
	5510	MCS3	11.0	13.5	97.4	0.11	$\times 1.03$	11	10.81	-2.69 -2.69 -2.73 -2.70	-	- "	13.5	10.27	-3.23	- "	-				-
	5510	MCS4	11.0	13.5	96.4	0.16	×1.04	11	10.77	-2.73	l -	-	13.5	10.13	-3.37	-	-				-
										2.70	ł					†					<u>-</u>
	5510	MCS5	11.0	13.5			×1.05	11	10.80	- ∠./U	ļ <u>-</u>		12.5	10.11	-3.39	-	-				-
.,	5510	MCS6	10.0	12.5		0.23	×1.05	10	9.60	-2.90	<u> </u>	L	10.5	9.44	-3.06						L
11n	5510	MCS7			94.2	0.26	×1.06		8.00	-2.50	i -	l -	8.5	7.37	-3.13	-	-				ſ -
(40HT)										-1.29	×1.35	 				v1 27					tune :::
(1Tx)	5230	MCS0	11.0	13.5		0.03		13.5	12.21			-	13.5	12.45	-1.05	×1.27					tune-up
,	5270	MCS0	11.0	13.5	99.3	0.03	$\times 1.01$	13.5	12.23	-1.27	×1.34	-	13.5	12.16	-1.34	×1.36	Tested				tune-up
Ì	5510	MCS0	11.0	13.5	99.3	0.03	×1.01	12.5	12.32	-1.18	×1.31	1	12.5	12.16	-1.34	×1.36	-				tune-up
						0.03			12.59				12.5	12.22							
	5550	MCS0	11.0	13.5				12.5	14.39	-0.91	×1.23				-1.28	×1.34	Tested				tune-up
	5590	MCS0	11.0	13.5	99.3		×1.01		12.49	-1.01	×1.26	l	12.5	11.95	-1.55	×1.43	L				tune-up
	5670	MCS0		13.5	99.3	0.03		12.5	12.09	-1.41	×1.38	1	12.5	11.99	-1.51	×1.42	-				tune-up
												 					-				_
	5755	MCS0	11.0	13.5		0.03		13.5	12.25	-1.25	×1.33		13.5	12.06	-1.44	×1.39					tune-up
	5795	MCS0	11.0	13.5	99.3	0.03	$\times 1.01$	13.5	11.94	-1.56	×1.43	-	13.5	12.21	-1.29	×1.35	Tested				tune-up
	5500	MCS8	13.5	16.0	_	0.03	×1.01	13.5	13.83		×1.65		13.5	12.74	-3.26	×2.12		16.5 19.0 1	6.33 -	2.67	
			13.3							-2.17 -2.53		ļ <u>-</u>				+			0.33	-2.67 -2.91	
	5500	MCS9	13.5	16.0			×1.01	13.5	13.47	-2.53	-	<u> </u>	13.5	12.64	-3.36	-	-		6.09 -	-2.91	
	5500	MCS10	13.5	16.0	97.9	0.09	×1.02	13.5	13.43	-2.57	-	l -	13.5	12.66	-3.34	-	-	16.5 19.0 1	6.07	2.93	-
11n		MCS11					×1.03	13.5		-2.60	ţ	·····	13.5			t		16.5 19.0 1	6.06	2.94	
(20HT)		MCSII		16.0			×1.03			-∠.00	ļ <u>-</u>	L		12.66	-3.34		-		0.00	-2.94	
	5500	MCS12	13.5	16.0	96.1	0.17	×1.04	13.5	13.35	-2.65	-	- "	13.5	12.55	-3.45	-	-		5.98 -	-3.02 -2.78 -2.93	-
(2Tx)	5500	MCS13	12.5	15.0			×1.05	12.5	12.71	-2 20	l -	-	12.5	11.64	-3.36	_	_		5.22 -	2 78	_
										2.27	ļ	ļ				 	<u>-</u>		2.22	2.70	····
	5500	MCS14	10.5	13.0		0.24		10.5	10.28	-2.65 -2.29 -2.72 -2.47	ļ <u>-</u>		10.5	9.82	-3.18		-	13.5 16.0 1	3.0/ -	-2.93	
	5500	MCS15	8.5	11.0	94.0	0.27	×1.06	8.5	8.53	-2.47	-	l - "	8.5	7.81	-3.19	-	-	11.5 14.0 1	1.20	-2.80	-
																					cont'd

(cont'd)

^{*.} SAR test was applied. *. xx.xx highlight is shown the maximum measured output power.

^{*1.} $\overline{\text{(KDB248227 D01 (v02r02))}}$ The reported SAR of the highest measured maximum output power channel for the exposure configuration is \leq 0.8 W/kg. *. Date measured February 3 and 4, 2016 / measured by: H. Naka (21 \pm 2 deg C / 50 \pm 5 %RH, at preparation room of S/R#7)

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(cont'd) 6.1.2 5GHz band (cont'd)

Mode Freq. Tata Typical Max Other factor Sack Set Ave Max Freq. Frestor Frestor Glbm			Doto	Power	spec.	Ι	Outy cyc	ele	A	Antenna #	#0 (chair	#0) pow	er		Antenna	#1 (chair	1#1) pow	er	MIM	O Ant.#0)+Ant.#1	power	1
MHz	Mode	Freq.	Data			duty	factor	scaled	Set	Avo	Δ	Tune-up	CAD	Set	Avo	Δ	Tune-up	CAD	MIMO	MIMO	SUM	Δ	Power
Mile	WIOGC		Tate	1 ypicai	iviax.	_		factor	pwr.	Avc.		factor		pwr.	Avc.		factor		target	max.	Ave.	Max.	
\$220 McSs 110 155 993 003 ×101 155 1243 -107 ×128 mo(*) 135 1243 -107 ×128 mo(*) 135 1243 -107 ×128 mo(*) 135 1243 -106 ×125 mo(*) 140 165 1550 -100 me-up 5300 McSs 110 135 993 003 ×101 135 1281 -066 ×1.17 mo(*) 135 1263 -087 ×122 mo(*) 140 165 1550 -100 me-up 5300 McSs 135 160 993 003 ×101 135 1281 -066 ×1.17 mo(*) 135 1263 -087 ×1.22 mo(*) 140 165 1573 -077 me-up 11n 5320 McSs 135 160 993 003 ×101 150 1469 -1.04 ×1.27 -1.50 1451 -1.49 ×1.41 -1.65 1568 -1.14 me-up 1500 McSs 135 160 993 003 ×101 150 1500 100 ×1.25 -1.50 1451 -1.49 ×1.41 -1.65 165 190 17.75 1.25 me-up 1785 McSs 135 160 993 003 ×101 150 1500 100 ×1.25 mo(*) 150 1472 -1.28 ×3.34 mo(*) 165 1677 333 me-up 1785 McSs 135 160 993 003 ×101 150 1477 -1.23 ×1.33 -1.65 1445 -1.46 ×1.46 -1.65 165 160 1785 113 me-up 1785 McSs 135 160 993 003 ×101 160 1489 -1.11 ×1.29 -1.60 1482 -1.18 ×1.31 -1.65 190 17.87 -1.13 me-up 1785 McSs 135 160 993 003 ×101 160 1483 -1.17 ×1.33 me-up 160 15.18 -0.82 ×1.21 mo(*) 165 190 1800 -0.98 100 1500 100 100 1483 -1.17 ×1.31 mo(*) 160 15.18 -0.82 ×1.21 mo(*) 165 1300 165 1300 100			[Mbps]	[dBm]	[dBm]		_	[-]	[dBm]	_		[-]	resteu.	_	_			resteu.	_	ļ	[dBm]	[dB]	-up?
S240 MCSS 11.0 15.5 99.3 00.3 x1.01 15.5 12.43 -1.07 x1.28 no(*1) 13.5 12.54 0.96 x1.25 no(*1) 14.0 16.5 15.56 -1.00 tune-up		5180		11.0																			tune-up
S260 MCS8 11.0 13.5 99.3 0.03 ×1.01 13.5 12.54 0.96 ×1.25 value 13.5 12.63 0.88 ×1.21 value 14.0 16.5 15.62 0.88 value 19.0		5220	MCS8	11.0	13.5		-0.05	×1.01	13.5											10.0			
S500 MCSR 11.0 13.5 99.3 0.03 x1.01 13.5 12.81 0.69 x1.17 no(*1) 13.5 12.63 0.87 x1.22 no(*1) 14.0 16.5 15.75 0.77 une-up 11.1 5320 MCSR 13.5 16.0 99.3 0.03 x1.01 13.5 12.92 0.58 x1.14 - 13.5 12.40 - 1.10 x1.29 - 14.0 16.5 15.66 0.82 une-up 17.50 une-up une-up 17.50 une-up		•	MCS8	11.0	13.5	//.	0.05	×1.01	13.5				no (*1)			0.00		no (*1)					
11n				11.0																			
(2HT) 5500 MCS8 13.5 16.0 99.3 0.03 ×1.01 15.0 14.96 -1.04 ×1.27 - 15.0 14.51 -1.49 ×1.41 - 16.5 19.0 17.75 -1.25 une-up 1.05 15.0 15.				11.0									no (*1)										
Carron S580 McS8 13.5 16.0 99.3 0.03 x1.01 15.0 15.00 -1.00 x1.26 - 15.0 14.69 -1.31 x1.35 - 16.5 19.0 17.86 -1.14 tune-up 5700 McS8 13.5 16.0 99.3 0.03 x1.01 15.0 14.77 -1.23 x1.33 - 15.0 14.74 -1.46 x1.40 - 16.5 19.0 17.89 -1.11 tune-up 5745 McS8 13.5 16.0 99.3 0.03 x1.01 16.0 14.89 -1.11 x1.29 - 16.0 14.82 -1.18 x1.31 - 16.5 19.0 17.87 1.13 tune-up 5785 McS8 13.5 16.0 99.3 0.03 x1.01 16.0 14.85 -1.15 x1.30 - 16.0 15.13 -0.87 x1.22 - 16.5 19.0 17.67 -1.33 tune-up 5825 McS8 13.5 16.0 99.3 0.03 x1.01 16.0 14.85 -1.15 x1.30 - 16.0 15.13 -0.87 x1.22 - 16.5 19.0 18.00 -1.00 tune-up 5825 McS8 13.5 16.0 99.3 0.03 x1.01 16.0 14.83 -1.17 x1.31 no(*1) 16.0 15.18 -0.82 x1.21 no(*1) 16.5 19.0 18.02 -0.98 tune-up 5510 McS8 11.0 13.5 98.0 0.09 x1.02 11.0 10.88 -2.62 x1.83 - 11.0 10.69 -2.81 x1.91 - 14.0 16.5 13.80 2.70 - 5510 McS10 11.0 13.5 98.0 0.09 x1.02 11.0 10.88 -2.66 - 11.0 10.22 -3.28 - 14.0 16.5 13.50 3.00 - 5510 McS10 11.0 13.5 98.0 0.09 x1.02 11.0 10.83 -2.67 - 11.0 10.22 -3.28 - 14.0 16.5 13.50 3.00 - 5510 McS11 11.0 13.5 98.0 0.09 x1.02 11.0 10.83 -2.67 - 11.0 10.22 -3.28 - 14.0 16.5 13.50 3.00 - 5510 McS11 11.0 13.5 98.7 0.06 x1.01 10.0 0.79 -2.71 - - 11.0 10.22 -3.28 - 14.0 16.5 13.50 3.00 - 11.0 13.5 98.7 0.06 x1.01 13.5 12.79 - 11.0 10.22 -3.28 - 14.0 16.5 13.50 3.00 - 11.0 13.5 98.7 0.06 x1.01 13.5 12.79 - 11.0 10.14 - 3.35 - 14.0 16.5 13.50 - 13.5 10.70 2.80 - 14.0 16.5 13.40 - 14.0 16.5 13.40 - 14.0 1				11.0	13.5	//.				- "			-					-					
\$600 MCSS 13.5 16.0 99.3 0.03 ×1.01 15.0 15.03 0.97 ×1.25 10.0*** 15.0 14.72 -1.28 ×1.34 no.(*) 16.5 19.0 17.89 -1.11 thre-up 5700 MCSS 13.5 16.0 99.3 0.03 ×1.01 16.0 14.89 -1.11 ×1.29 -1.60 14.82 -1.18 ×1.31 -1.65 19.0 17.67 -1.33 thre-up 5785 MCSS 13.5 16.0 99.3 0.03 ×1.01 16.0 14.89 -1.11 ×1.29 -1.60 14.82 -1.18 ×1.31 -1.65 19.0 17.87 -1.13 thre-up 5785 MCSS 13.5 16.0 99.3 0.03 ×1.01 16.0 14.85 -1.15 ×1.30 -1.60 15.13 -0.87 ×1.22 -1.65 19.0 17.87 -1.13 thre-up 5825 MCSS 13.5 16.0 99.3 0.03 ×1.01 16.0 14.83 -1.17 ×1.31 no.** 16.0 15.13 -0.87 ×1.22 -1.65 19.0 17.87 -1.13 thre-up 5510 MCSS 11.0 13.5 98.7 0.06 ×1.01 11.0 10.88 -2.62 ×1.83 -1.10 10.69 -2.81 ×1.91 -1.40 16.5 13.80 -2.70 -1.55 10.0 10.0 10.0 11.0 10.	· ,				16.0																		
S700 MCS8 13.5 16.0 99.3 0.03 ×1.01 15.0 14.77 -1.23 ×1.33 - 15.0 14.54 -1.46 ×1.40 - 16.5 19.0 17.67 -1.33 tune-up 5785 MCS8 13.5 16.0 99.3 0.03 ×1.01 16.0 14.85 -1.15 ×1.30 - 16.0 15.13 -0.87 ×1.22 - 16.5 19.0 18.00 -1.00 tune-up 5825 MCS8 13.5 16.0 99.3 0.03 ×1.01 16.0 14.83 -1.17 ×1.31 mo(*1) 16.0 15.18 -0.82 ×1.21 mo(*1) 16.5 19.0 18.00 -1.00 tune-up 5825 MCS8 13.5 16.0 99.3 0.03 ×1.01 16.0 14.83 -1.17 ×1.31 mo(*1) 16.0 15.18 -0.82 ×1.21 mo(*1) 16.5 19.0 18.00 -1.00 tune-up 5510 MCS8 11.0 13.5 98.7 0.06 ×1.01 11.0 10.88 -2.62 ×1.83 - 11.0 10.69 -2.81 ×1.91 - - - - - - - - -	(21X)				10.0		_0.05																
5745 MCS8 13.5 16.0 99.3 0.03 x 0.01 16.0 14.89 -1.11 x 2.9 - 16.0 14.82 -1.18 x 3.1 - 16.5 19.0 17.87 -1.13 ture-up 5785 MCS8 13.5 16.0 99.3 0.03 x 0.01 16.0 14.85 -1.15 x 3.0 - 16.0 15.13 -0.87 x 12.2 - 16.5 19.0 18.00 -1.00 ture-up 5825 MCS8 13.5 16.0 99.3 0.03 x 0.01 16.0 14.83 -1.17 x 31 no(*1) 16.0 15.18 -0.82 x 12.1 no(*1) 16.5 19.0 18.02 -0.98 ture-up 5510 MCS8 11.0 13.5 98.7 0.06 x 1.01 11.0 10.88 -2.62 x 1.83 - 11.0 10.69 -2.81 x 1.91 - 14.0 16.5 13.80 -2.70 - 5510 MCS8 11.0 13.5 98.0 0.09 x 10.1 10.84 -2.66 - - 11.0 10.69 -2.81 x 1.91 - 14.0 16.5 13.71 -2.79 - 5510 MCS10 11.0 13.5 98.0 0.09 x 10.1 10.84 -2.66 - - 11.0 10.22 -3.28 - 14.0 16.5 13.50 -3.00 - 5510 MCS10 11.0 13.5 98.0 0.09 x 10.1 10.79 -2.71 - 11.0 10.22 -3.28 - 14.0 16.5 13.50 -3.00 - 5510 MCS12 11.0 13.5 98.0 0.29 x 10.1 10.79 -2.71 - 11.0 10.11 -3.39 - 14.0 16.5 13.50 -3.00 - 5510 MCS13 11.0 13.5 92.8 0.32 x 10.8 11.0 10.63 -2.87 - 11.0 10.14 -3.36 - 14.0 16.5 13.50 -3.00 - 15.10 MCS13 11.0 13.5 92.8 0.32 x 10.8 11.0 10.63 -2.87 -													no (*1)										
S785 MCS8 13.5 16.0 99.3 0.03 ×1.01 16.0 14.85 -1.15 ×1.30 - 16.0 15.13 -0.87 ×1.22 - 16.5 19.0 18.00 -1.00 time-up						// 10	0.00			,			-					-					
S825 MCS8 13.5 16.0 99.3 0.03 ×1.01 16.0 14.83 -1.17 ×1.31 no(*1) 16.0 15.18 -0.82 ×1.21 no(*1) 16.5 19.0 18.02 -0.98 tune-up													<i>-</i>										
5510 MCS8 11.0 13.5 98.7 0.06 ×1.01 11.0 10.88 -2.62 ×1.83 - 11.0 10.69 -2.81 ×1.91 - 14.0 16.5 13.80 -2.70 - 5510 MCS9 11.0 13.5 98.0 0.09 ×1.02 11.0 10.84 -2.66 - - 11.0 10.56 -2.94 - - 14.0 16.5 13.71 -2.79 - 5510 MCS10 11.0 13.5 96.8 0.14 ×1.03 11.0 10.80 -2.70 - - 11.0 10.22 -3.28 - - 14.0 16.5 13.53 -2.97 - 5510 MCS11 11.0 13.5 93.6 0.29 ×1.07 11.0 10.83 -2.67 - - 11.0 10.11 -3.39 - - 14.0 16.5 13.50 -3.00 -																							
S510 MCSI0 11.0 13.5 98.0 0.09 ×1.02 11.0 10.84 -2.66 - - 11.0 10.56 -2.94 - - 14.0 16.5 13.71 -2.79 - 5510 MCSI0 11.0 13.5 96.8 0.14 ×1.03 11.0 10.80 -2.70 - - 11.0 10.22 -3.28 - - 14.0 16.5 13.53 -2.97 - 5510 MCSI1 11.0 13.5 93.6 0.29 ×1.07 11.0 10.79 -2.71 - - 11.0 10.11 -3.39 - - 14.0 16.5 13.50 -3.00 -				13.5			0.00		16.0			-	no (*1)					no (*1)					tune-up
S510 MCSI 11.0 13.5 96.8 0.14 ×1.03 11.0 10.80 -2.70 - - 11.0 10.22 -3.28 - - 14.0 16.5 13.53 -2.97 - 5510 MCSI 11.0 13.5 95.4 0.20 ×1.05 11.0 10.83 -2.67 - - 11.0 10.11 -3.39 - - 14.0 16.5 13.50 -3.00 - 5510 MCSI 11.0 13.5 93.6 0.29 ×1.07 11.0 10.79 -2.71 - - 11.0 10.12 -3.28 - 14.0 16.5 13.50 -3.00 - 5510 MCSI 11.0 13.5 92.8 0.32 ×1.08 11.0 10.63 -2.87 - - 11.0 10.14 -3.36 - - 14.0 16.5 13.40 -3.10 -				11.0					11.0			×1.83					×1.91						
S510 MCSI2 11.0 13.5 95.4 0.20 ×1.05 11.0 10.83 -2.67 11.0 10.11 -3.39 14.0 16.5 13.50 -3.00 -				11.0					11.0			ļ <u>-</u>					<u>-</u>						
S510 MCS12 11.0 13.5 93.6 0.29 ×1.07 11.0 10.79 -2.71 11.0 10.22 -3.28 14.0 16.5 13.52 -2.98 -				11.0								ļ <u>-</u>					<u>-</u>						-
S510 MCS13 11.0 13.5 92.8 0.32 ×1.08 11.0 10.63 -2.87 - - 11.0 10.14 -3.36 - - 14.0 16.5 13.40 -3.10 - -				11.0					11.0			ļ <u>-</u>					<u>-</u>						-
11n												ļ <u>-</u>						<u>-</u>					-
1												ļ <u>-</u>						<u>-</u>					-
(2Tx) 5230 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.29 -1.21 ×1.32 no(*1) 13.5 12.30 -1.20 ×1.32 no(*1) 14.0 16.5 15.30 -1.20 tune-up 5270 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.17 -1.33 ×1.36 no(*1) 13.5 12.39 -1.11 ×1.29 no(*1) 14.0 16.5 15.29 -1.21 tune-up 5510 MCS8 11.0 13.5 98.7 0.06 ×1.01 12.5 12.76 -0.74 ×1.19 no(*1) 12.5 11.72 -1.78 ×1.51 no(*1) 14.0 16.5 15.28 -1.22 tune-up 5550 MCS8 11.0 13.5 98.7 0.06 ×1.01 12.5 12.45 -1.05 ×1.27 -1.25 11.85 -1.65 ×1.46 -1.40 16.5 15.17 -1.33 tune-up 5670 MCS8 11.0 13.5 98.7 0.06 ×1.01 12.5 12.17 -1.33 ×1.36 -1.25 12.21 -1.29 ×1.35 -1.40 16.5 15.20 -1.30 tune-up 5755 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.45 -1.05 ×1.27 no(*1) 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.20 -1.30 tune-up 5755 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.45 -1.05 ×1.27 no(*1) 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 5755 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.45 -1.05 ×1.27 no(*1) 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 5755 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.45 -1.05 ×1.27 no(*1) 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 5755 MCS8 11.0 13.5 12.45 -1.08 tune-up	11n											ļ											-
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5550 MCS8 11.0 13.5 98.7 0.06 ×1.01 12.5 12.45 -1.05 ×1.27 - 12.5 11.85 -1.65 ×1.46 - 14.0 16.5 15.17 -1.33 tune-up 15.590 MCS8 11.0 13.5 98.7 0.06 ×1.01 12.5 12.51 -0.99 ×1.26 - 12.5 11.81 -1.69 ×1.48 - 14.0 16.5 15.18 -1.32 tune-up 15.670 MCS8 11.0 13.5 98.7 0.06 ×1.01 12.5 12.17 -1.33 ×1.36 - 12.5 12.21 -1.29 ×1.35 - 14.0 16.5 15.20 -1.30 tune-up 15.555 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.45 -1.05 ×1.27 no(*1) 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.555 MCS8 11.0 13.5 12.45 -1.05 ×1.27 no(*1) 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 13.6 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 13.6 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 13.6 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 13.6 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 MCS8 11.0 13.5 13.6 -1.14 ×1.30 no(*1) 14.0 16.5 15.42 -1.08 tune-up 15.556 13.556 13.556 13.556 13.556 13.556 13.556 13.556 13.556 13.556 13.556 13.556 13.556																							
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5670 MCS8 11.0 13.5 98.7 0.06 ×1.01 12.5 12.17 -1.33 ×1.36 - 12.5 12.21 -1.29 ×1.35 - 14.0 16.5 15.20 -1.30 tune-up 5755 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.45 -1.05 ×1.27 no(*1) 13.5 12.36 -1.14 ×1.30 no(*1) 14.0 16.5 15.20 -1.08 tune-up				11.0									<u>-</u>										
5755 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 12.45 -1.05 ×1.27 rp(*1) 13.5 12.36 -1.14 ×1.30 rp(*1) 14.0 16.5 15.42 -1.08 turn-up				11.0									<u>-</u>										
				11.0			0.00						no (*1)					no (*1)					
5795 MCS8 11.0 13.5 98.7 0.06 ×1.01 13.5 11.93 -1.57 ×1.44 - 13.5 12.12 -1.38 ×1.37 - 14.0 16.5 15.04 -1.46 tune-up		5795		11.0	13.5	98.7		×1.01	13.5	11.93	-1.57	×1.44	70 7 1)	13.5	12.30	-1.38	×1.37	10 (1)	14.0				

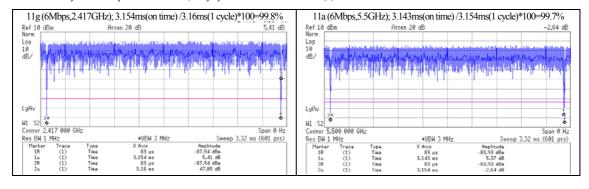
- : SAR test was applied. *. xx.xx highlight is shown the maximum measured output power.
- (KDB447498 D01 (v06)) Since SPLSR (SAR to peak location separation ratio) was enough smaller than 0.04, SAR test of MIMO mode was reduced. Date measured February 3 and 4, 2016 / measured by: H. Naka (21 ± 2 deg.C./ 50 ± 5 %RH, at preparation room of S/R#7)

(Common definition)

- Freq.: Frequency, Max.: Maximum, Power spec.: Power specification, Set pwr: Setting power for the measurement, Ave.: Average
- Calculating formula: Average power (dBm) = (P/M Reading, dBm)+(Cable loss, dB)+(Attenuator, dB)+(duty factor, dB)

Duty cycle: (duty cycle, %) = (Tx on time, ms) / (1 cycle time, ms) × 100; Duty factor: (duty factor, dBm) = $10 \times \log(100/(duty \text{ cycle}, \%))$ Duty scaled factor: Duty cycle correction factor for obtained SAR value, Duty scaled factor [-] = 100(%)/(duty cycle, %) Δ Max. (Deviation form maximum power, dB) = (results power (average, dBm)) - (Max.-specification output power (average, dBm)) Tune-up factor: Power tune-up factor for obtained SAR value, Tune-up factor [-] = 1 / (10 ^("Deviation from max., dB" / 10))

- Date measured: February 3 and 4, 2016 / Measured by: Hiroshi Naka / Place: preparation room of No. 7 shielded room. (21 ±1 deg.C./45 ±10 %RH)
- Uncertainty of antenna port conducted test; Power measurement uncertainty above 1GHz for this test was: (±) 0.76 dB.
- Uncertainty of antenna port conducted test; Duty cycle and time measurement: (±) 0.012 %.



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SECTION 7: SAR Measurement results

Measurement date: February 16~19, 22 and 23, 2016 Measurement by: Hiroshi Naka

7.1 Liquid measurement

Target					L	iquid par	ameters (*				ΔSAR Co	efficients(*c)		
Frequency	Liquid		Permittivi	<i>'</i> \ / I I			Conducti			Temp.	Depth	ΔSAR	Correction	Date measured
[MHz]	type	Target	Meas		Limit	Target		sured	Limit	[deg.C.]	[mm]	(1g) [%]	required?	Date measured
. ,			Meas.	∆er [%]	(*b)		Meas.	Δσ [%]	(*b)	[ucg.c.]	[mm]		requireu.	
5745		35.36	34.97	-1.1	ļ	5.214	5.102	-2.1				+0.32	not required.	
5785	Head	35.32	34.98	-1.0		5.255	5.130	-2.4		22.9	149	+0.30	•	February 16, 2016
5795	Ticuc	35.31	35.01	-0.8		5.265	5.129	-2.6		22.7	11)	+0.28	not required.	before SAR test
5825		35.27	34.88	-1.1	ļ	5.296	5.193	-1.9				+0.31	not required.	
5180		36.01	35.73	-0.8		4.635	4.538	-2.1				+0.21	not required.	
5260		35.92	35.64	-0.8	-5%≤	4.717	4.610	-2.3	-5%≤			+0.22	not required.	
5270		35.91	35.60	-0.9	-5 / 0 ≤ ET-meas.	4.727	4.617	-2.3	-3/0 ≤ σ-meas. ≤+5%		149	+0.24	not required.	
5300		35.87	35.66	-0.6	≤0% ≤0%	4.758	4.633	-2.6		22.9		+0.20	not required.	
5320	Head	35.85	35.60	-0.7	3070	4.778	4.645	-2.8				+0.23	not required.	February 17, 2016
5500	Ticau	35.64	35.36	-0.8		4.963	4.825	-2.8			149	+0.27	not required.	before SAR test
5550		35.59	35.24	-1.0		5.014	4.885	-2.6				+0.31	not required.	
5580		35.55	35.24	-0.9		5.045	4.890	-3.1				+0.31	not required.	
5600		35.53	35.20	-0.9		5.065	4.945	-2.4				+0.29	not required.	
5700		35.41	35.02	-1.1		5.168	5.047	-2.3				+0.33	not required.	
5500		48.61	47.19	-2.9		5.650	5.859	+3.7				+0.43	not required.	
5580		48.50	47.06	-3.0		5.743	5.968	+3.9				+0.42	not required.	
5600		48.47	47.03	-3.0		5.766	6.003	+4.1			147	+0.41	not required.	E.I. 10.2016
5700	Body	48.34	46.95	-2.9		5.883	6.150	+4.5		22.6		+0.36	not required.	February 18, 2016 before SAR test
5745		48.27	46.83	-3.0	-5%≤	5.936	6.192	+4.3	0%≤			+0.40	not required.	belore SAR test
5785		48.22	46.83	-2.9	ET-meas.	5.982	6.253	+4.5	σ-meas.			+0.37	not required.	
5825		48.17	46.77	-2.9	≤0%	6.029	6.306	+4.6	≤+5%			+0.37	not required.	
5180		49.04	47.81	-2.5		5.424	5.424	+2.8				+0.44	not required.	
5260	ъ 1	48.93	47.61	-2.7	ĺ	5.369	5.559	+3.5		22.6	1.47	+0.44	not required.	February 19, 2016
5300	Body	48.88	47.56	-2.7		5.416	5.616	+3.7		22.6	147	+0.42	not required.	before SAR test
5320		48.85	47.57	-2.6		5.439	5.608	+3.1				+0.42	not required.	
2412		52.75	50.55	-4.2		1.914	1.949	+1.8				+1.83	not required.	
2417		52.74	50.51	-4.2	-5%≤	1.918	1.949	+1.6	0%≤			+1.73	not required.	
2427	Body	52.73	50.48	-4.3	ET-meas.	1.928	1.969	+2.1	σ-meas.	22.4	153	+1.99	not required.	February 22, 2016
2437	,	52.72	50.39	-4.4	≤0%	1.938	1.991	+2.7	≤+5%			+2.32	not required.	before SAR test
2462		52.68	50.31	-4.5	ĺ	1.967	2.017	+2.5				+2.22	not required.	
2412		39.27	38.13	-2.9		1.766	1.808	+2.4				+1.82	not required.	
2417		39.26	38.10	-3.0	-5%≤	1.771	1.817	+2.6	0%≤			+1.95	not required.	
2427	Head	39.24	38.08	-3.0	ET-meas.	1.780	1.834	+3.1	σ-meas.	23.8	151	+2.16	not required.	February 22~23, 2016
2437		39,22	38.01	-3.1	≤0%	1.788	1.843	+3.1	≤+5%	23.8 151	+2.18	not required.	Delote SAR lest (*1)	
2462		39.18	37.96	-3.1	1	1.813	1.877	+3.5	1			+2.39	not required.	

^{*1.} It was within 24 hours from measurement on February 22, so measured parameters on February 22 were used on February 23.

^{*}a. The target value is a parameter defined in Appendix A of KDB865664 D01 (v01r04), the dielectric parameters suggested for head and body tissue simulating liquid are given at 2000, 2450, 3000 and 5800MHz. (*.The parameters of the head liquid are the same value as IEC 62209-2.) Parameters for the frequencies between 2000-3000, 3000-5800MHz were obtained using linear interpolation. Above 5800MHz were obtained using linear extrapolation.

^{*}b. Refer to KDB865664 D01 (v01r04), item 4), Clause 2.6; "When nominal tissue dielectric parameters are recorded in the probe calibration data; for example, only target values and tolerance are reported, the measured εr and σ of the liquid used in routine measurements must be: ≤ the target εr and ≥ the target σ values and also within 5% of the required target dielectric parameters."

^{*}c. Calculating formula: $\Delta SAR(1g) = Cer \times \Delta er + C\sigma \times \Delta \sigma$, $Cer = 7.854E + 4x^3 + 9.402E - 3x^2 - 2.742E - 2x + 60.2026 / C\sigma = 9.804E - 3x^2 - 8.661E - 2x^2 + 2.981E - 2x + 10.7829$

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7.2 SAR measurement results (Body)

[Measured and Reported (Scaled) SAR results]

SAR measurement EUT setup (*1)					ent re	CAD (XVII)			Reported SAR [W/kg]								
	Ewog	D-4-	E	UT setup	(*1)		SA	R [W/kg	g	SAR	Duty	cycle	Out	tput av	erage	SAR	Remarks
Mode	Freq. [MHz]	Data rate	Antenna		C	Bty.	Max. val	ue of mu	lti-peak	plot#in	corr	ection	pow	er corr	ection	Corrected	
Wiode	(Channel)	D About	*.SAR	Position	Gap [mm]	ID	Meas.	ΔSAR	ΔSAR	Appendix 2-2	Duty	Duty	Meas.	Max.	Tune-up	(Scaled)	in area scan result.)
	` /		measured.		[]		IVICAS.	[%]	corrected	2-2	[%]	scaled	[dBm].	[dBm]	factor	(*b)	
Step 1:	2.4GHz Ba	and (Bo	• /	_			T	4 = 0	1 (1)		00.0	1.00	10.55	10.5		,	1
11g	2417(2)	6	ant#0	Front	0	#2	too small	+1.73	n/a (*a)	Plot 1-3	99.8	×1.00	18.57	19.5	×1.25	n/a	(*.0.0115W/kg)
	2417(2)		ant#1	(Patient)	0	#2	not detected	+1.73	n/a (*a)	Plot 1-4	99.8	×1.00	17.63	19.5	×1.54	n/a	(*.0W/kg)
	2417(2)	_			0	#2	0.129	+1.73	n/a (*a)	<u>Plot 1-1</u>	99.8	×1.00	18.57	19.5	×1.25	0.161	ant#0-worst,body,2.4GHz
11g	2437(6)	6		Short	0	#2	0.109	+2.32	n/a (*a)	Plot 1-5	99.8 99.8	×1.00	17.09	18.0	×1.38	0.150	-
1.11	2462(11)		ant#0	-side -an#0	0	#2	0.072	+2.22	n/a (*a)	Plot 1-6		×1.00	16.08	17.5	×1.39	0.100	-
11b	2412(1)	1		-an-	0	#2	0.059	+1.82	n/a (*a)	Plot 1-7	99.8 99.3	×1.00	14.99	16.0	×1.26	0.074	-
n40HT	2427(4)	MCS0			0	#2	0.052	+2.16	n/a (*a)	Plot 1-8	99.3	×1.01	14.19 17.63	16.0 19.5	×1.52 ×1.54	0.079 0.106	
11~	2417(2) 2437(6)	6			0	#3	0.069	+1.73	n/a (*a) n/a (*a)	Plot 1-2	99.8	×1.00	17.03	19.5	×1.34 ×1.33	0.100	ant#1-worst,body,2.4GHz
11g	2462(11)	0	ant#1	Long -side	0	#3	0.037	+2.32	n/a (*a)	Plot 1-9 Plot 1-10	99.8	×1.00	15.87	17.5	×1.33	0.076	•
11b	· /	1	ant#1	-side -an#1	0	#3	0.037	+1.82	n/a (*a)	Plot 1-10	99.8	×1.00	15.20	16.0	×1.46	0.054	-
n40HT	2412(1) 2427(4)	MCS0		-211//1	0	#3	0.030	+2.16	n/a (*a)	Plot 1-11	99.8	×1.00	14.34	16.0	×1.47	0.043	-
	5GHz Ban)		U	#3	0.030	₹2.10	IVa (-a)	PIOL 1-12	99.3	×1.01	14.34	10.0	X1.47	0.044	r
Step 2.	5300(60)	u (Dou	y)		0	#3	not detected	+0.42	n/a (*a)	Plot 2-3	99.7	×1.00	13.88	15.0	×1.29	n/a	(*.0.00834W/kg)
	5580(118)		ant#0		0	#3	not detected	+0.42	n/a (*a)	Plot 2-4	99.7	×1.00	16.38	17.5	×1.29	n/a	(*.0.00834W/kg)
	5825(165)		anuro	Front	0	#3	too small	+0.37	n/a (*a)	Plot 2-5	99.7	×1.00	16.05	17.5	×1.40	n/a	(*.0.0473W/kg)
11a	5300(60)	6		(Patient)	0	#3	not detected	+0.42	n/a (*a)	Plot 2-6	99.7	×1.00	13.56	15.0	×1.39	n/a	(*.0.00117W/kg)
	5580(116)		ant#1	(Tunerit)	0	#3	not detected	+0.42	n/a (*a)	Plot 2-7	99.7	×1.00	16.14		×1.37	n/a	(*.0.00117 W/kg)
	5825(165)		1110/1		0	#3	not detected	+0.37	n/a (*a)	Plot 2-8	99.7	×1.00	16.39	17.5	×1.29	n/a	(*.0.0642W/kg)
	5180(36)				0	#2	0.103	+0.44	n/a (*a)	Plot 2-9	99.7	×1.00	13.70	15.0	×1.35	0.139	ant#0-worst,body,w52/53
	5260(52)				0	#2	0.078	+0.44	n/a (*a)	Plot 2-10	99.7	×1.00	13.67	15.0	×1.36	0.106	-
	5300(60)				0	#2	0.068	+0.42	n/a (*a)	Plot 2-11	99.7	×1.00	13.94	15.0	×1.28	0.087	-
	5320(64)				0	#2	0.071	+0.42	n/a (*a)	Plot 2-12	99.7	×1.00	13.88	15.0	×1.29	0.092	-
	5500(100)			Short	0	#3	0.129	+0.43	n/a (*a)	Plot 2-1	99.7	×1.00	15.99	17.5	×1.42	0.183	ant#0-worst,body,w56
11a	5580(116)	6	ant#0	-side	0	#3	0.051	+0.42	n/a (*a)	Plot 2-13	99.7	×1.00	16.39	17.5	×1.29	0.066	-
	5600(120)			-an#0	0	#3	0.037	+0.41	n/a (*a)	Plot 2-14	99.7	×1.00	16.38	17.5	×1.29	0.048	-
	5700(140)				0	#3	0.041	+0.36	n/a (*a)	Plot 2-15	99.7	×1.00	15.95	17.5	×1.43	0.059	-
	5745(149)				0	#3	0.067	+0.40	n/a (*a)	Plot 2-16	99.7	×1.00	15.95	17.5	×1.43	0.096	-
	5785(157)				0	#3	0.081	+0.37	n/a (*a)	Plot 2-17	99.7	×1.00	15.93	17.5	×1.44	0.117	ant#0-worst,body,w58
	5825(165)				0	#3	0.058	+0.37	n/a (*a)	Plot 2-18	99.7	×1.00	16.05	17.5	×1.40	0.081	
	5180(36)				0	#2	0.068	+0.44	n/a (*a)	Plot 2-19	99.7	×1.00	13.50	15.0	×1.41	0.096	ant#0-worst,body,w52/53
	5260(52)				0	#2	0.039	+0.44	n/a (*a)	Plot 2-20	99.7	×1.00	13.55	15.0	×1.40	0.055	-
	5300(60)				0	#2	0.040	+0.42	n/a (*a)	Plot 2-21	99.7	×1.00	13.56	15.0	×1.39	0.056	-
	5320(64)				0	#2	0.042	+0.42	n/a (*a)	Plot 2-22	99.7	×1.00	13.84		×1.31	0.055	-
	5500(100)			Long	0	#2	0.117	+0.43	n/a (*a)	Plot 2-2	99.7	×1.00	16.18	17.5	×1.36	0.159	ant#1-worst,body,w56
11a	5580(116)	6	ant#1	-side	0	#2	0.073	+0.42	n/a (*a)	Plot 2-23	99.7	×1.00	16.14		×1.37	0.100	-
	5600(120)			-an#1	0	#2	0.069	+0.41	n/a (*a)	Plot 2-24	99.7	×1.00	16.13		×1.37	0.095	-
	5700(140)				0	#2	0.092	+0.36	n/a (*a)	Plot 2-25	99.7	×1.00	15.80	17.5	×1.48	0.136	-
	5745(149)				0	#2	0.106	+0.40	n/a (*a)	Plot 2-26	99.7	×1.00	15.91	17.5	×1.44	0.153	ant#1-worst,body,w58
	5785(157)				0	#2	0.100	+0.37	n/a (*a)	Plot 2-27	99.7	×1.00	15.99	17.5	×1.42	0.142	-
	5825(165)				0	#2	0.112	+0.37	n/a (*a)	Plot 2-28	99.7	×1.00	16.39	17.5	×1.29	0.144	ŀ

^{*1.} Since this EUT is the medical device, the EUT is only used under the guidance of a doctor or a qualified person. The possibility of the maximum RF human exposure is only a body/head of the patient who comes in contact directly on the front surface (patient side) of the EUT. Therefore, the SAR test was only considered to the front surface of the EUT. However, SAR value couldn't be measured at the front surface, so SAR was evaluated on the side edge.

Notes: *. Gap: It is the separation distance between the platform outer surface and the bottom outer surface of phantom; Freq.: Frequency; Bty.ID: Battery ID (Battery #2 and #3 were same model. Refer to Appendix 1 for more detail); Max.: Maximum, Meas.: Measured value; n/a: not applied.

*. Calibration frequency of the SAR measurement probe (and used conversion factors)

	. Cumoration frequency of the St It times				
	SAR test frequency	Probe calibration frequency	Validity	Conversion factor	Uncertainty
ĺ	2412, 2417, 2427, 2437, 2462 MHz	2450 MHz	within ±50MHz of calibration frequency	7.17	±12.0%
	5180, 5260, 5300, 5320 MHz	5250 MHz	within ±110 MHz of calibration frequency	4.53	±13.1 %
	5500, 5580, 5600, 5700 MHz	5600 MHz	within ±110 MHz of calibration frequency	3.78	±13.1 %
ĺ	5745, 5785, 5825 MHz	5750 MHz	within ±110 MHz of calibration frequency	4.06	±13.1 %

^{*.} The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Duty scaled = Duty scaled factor: Duty cycle correction factor for obtained SAR value, Duty scaled factor [-] = 100(%) / (duty cycle, %) Tune-up factor: Power tune-up factor for obtained SAR value, Tune-up factor [-] = 1/(10 %) ("Deviation from max., dB" / 10))

^{*}a. Since the calculated ΔSAR values of the tested liquid had shown positive correction, the measured SAR was not converted by ΔSAR correction.

Calculating formula: ΔSAR corrected SAR (W/kg) = (Meas. SAR (W/kg)) × (100 - (ΔSAR(%)) / 100

^{*}b. Calculating formula: Reported SAR (W/kg) = (Measured SAR (W/kg)) \times (Duty scaled) \times (Tune-up factor)

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7.3 SAR measurement results (Head)

[Measured and Reported (Scaled) SAR results]

		SAR measurement EUT setup (*1)					CAD (W/Ivel			Reported SA		d SAR					
	Freg.	D.4.	E	UT setup	(*1)		SA	R [W/kş	g]	SAR	Duty	cycle	Out	put av	erage	SAR	Remarks
Mode	[MHz]	rate	Antenna		Con	Bty.	Max. val	ue of mu	lti-peak	plot#in	corr	ection	powe	er corr	ection		
Nouc	(Channel)	[Mana]	*.SAR measured.	Position	Gap [mm]	ID	Meas.	ΔSAR	ΔSAR	Appendix 2-2	Duty	Duty	Meas.	Max.	Tune-up	(Scaled)	in area scan result.)
Ct. 2	A ACIT. D				. ,			[%]	corrected		[%]	scaled	[dBm].	[dBm]	factor	(*b)	
Step 3:	2.4GHz Ba	and (He		T	0	ш	. 11	11.05	/- (*-)	DI + 2 2	00.0	1.00	10.57	10.5	1.25	n/a	(# 0.0150V/4)
11g	2417(2) 2417(2)	6	ant#0	Front (Patient)	0	#3	too small	+1.95	n/a (*a)	Plot 3-3	99.8 99.8	×1.00	18.57 17.63	19.5 19.5	×1.25 ×1.54	n/a	(*.0.0152W/kg)
	2417(2)		ant#1	(rauent)	0	#3	not detected 0.145	+1.95	n/a (*a)	Plot 3-4 Plot 3-1	99.8	×1.00	18.57	19.5	×1.54 ×1.25	n/a 0.181	(*.0.000789W/kg)
11~	2417(2)	6		CI .	0	#3	0.145	+2.18	n/a (*a) n/a (*a)	Plot 3-5	99.8	×1.00	17.09	18.0	×1.23	0.156	ant#0-worst,head,2.4GHz
11g	2462(11)	0	ant#0	Short -side	0	#3	0.113	+2.18	n/a (*a)	Plot 3-6	99.8	×1.00	16.08	17.5	×1.38	0.130	-
11b	2402(11)	1	anu#0	-side -an#0	0	#3	0.064	+1.82	n/a (*a)	Plot 3-7	99.8	×1.00	14.99	16.0	×1.39	0.111	<u> </u>
n40HT	2412(1)	MCS0			0	#2	0.056	+2.16	n/a (*a)	Plot 3-8	99.3	×1.00	14.19	16.0	×1.52	0.085	
1140111	2417(2)	WICSO			0	#2	0.030	+1.95	n/a (*a)	Plot 3-2	99.8	×1.00	17.63	19.5	×1.54	0.109	ant#1-worst_head_2.4GHz
11g	2437(6)	6		Lang	0	#2	0.058	+2.18	n/a (*a)	Plot 3-9	99.8	×1.00	17.05	18.0	×1.33	0.077	anti-r-worst,ricatt,2.40112
115	2462(11)	O	ant#1	Long -side	0	#2	0.037	+2.39	n/a (*a)	Plot 3-10	99.8	×1.00	15.87	17.5	×1.46	0.054	
11b	2412(1)	1	1110/1	-an#1	0	#2	0.037	+1.82	n/a (*a)	Plot 3-11	99.8	×1.00	15.20	16.0	×1.20	0.034	
n40HT	2427(4)	MCS0			0	#2	0.029	+2.16	n/a (*a)	Plot 3-12	99.3	×1.01	14.34	16.0	×1.47	0.043	
	dy-4: 5GH		(Head)				0.027	2.10	124 (4)	11015 12	,,,,		1 1.5 1	10.0		0.0 10	
Step 50	5300(60)	E Dune	(11etter)		0	#3	not detected	+0.20	n/a (*a)	Plot 4-3	99.7	×1.00	13.88	15.0	×1.29	n/a	(*.0.000645W/kg)
	5580(118)		ant#0		0	#3	too small	+0.31	n/a (*a)	Plot 4-4	99.7	×1.00	16.38	17.5	×1.29	n/a	(*.0.0131W/kg)
	5825(165)			Front	0	#3	too small	+0.31	n/a (*a)	Plot 4-5	99.7	×1.00	16.05	17.5	×1.40	n/a	(*.0.0554W/kg)
11a	5300(60)	6		(Patient)	0	#3	not detected	+0.20	n/a (*a)	Plot 4-6	99.7	×1.00	13.56	15.0	×1.39	n/a	(*.0.000862W/kg)
	5580(116)		ant#1	, í	0	#3	too small	+0.31	n/a (*a)	Plot 4-7	99.7	×1.00	16.14	17.5	×1.37	n/a	(*.0.0174W/kg)
	5825(165)				0	#3	too small	+0.31	n/a (*a)	Plot 4-8	99.7	×1.00	16.39	17.5	×1.29	n/a	(*.0.0215W/kg)
	5180(36)				0	#2	0.113	+0.21	n/a (*a)	Plot 4-9	99.7	×1.00	13.70	15.0	×1.35	0.153	ant#0-worst,body,w52/53
	5260(52)				0	#2	0.083	+0.22	n/a (*a)	Plot 4-10	99.7	×1.00	13.67	15.0	×1.36	0.113	-
	5300(60)				0	#2	0.074	+0.20	n/a (*a)	Plot 4-11	99.7	×1.00	13.94	15.0	×1.28	0.095	-
	5320(64)				0	#2	0.077	+0.23	n/a (*a)	Plot 4-12	99.7	×1.00	13.88	15.0	×1.29	0.099	-
	5500(100)			Short	0	#3	0.135	+0.27	n/a (*a)	<u>Plot 4-1</u>	99.7	×1.00	15.99	17.5	×1.42	0.192	ant#0-worst,body,w56
11a	5580(116)	6	ant#0	-side	0	#3	0.051	+0.31	n/a (*a)	Plot 4-13	99.7	×1.00	16.39	17.5	×1.29	0.066	-
	5600(120)			-an#0	0	#3	0.039	+0.29	n/a (*a)	Plot 4-14	99.7	×1.00	16.38	17.5	×1.29	0.050	-
	5700(140)				0	#3	0.046	+0.33	n/a (*a)	Plot 4-15	99.7	×1.00	15.95	17.5	×1.43	0.066	-
	5745(149)				0	#3	0.075	+0.32	n/a (*a)	Plot 4-16	99.7	×1.00	15.95	17.5	×1.43	0.107	-
	5785(157)				0	#3	0.098	+0.30	n/a (*a)	Plot 4-17	99.7	×1.00	15.93	17.5	×1.44	0.141	ant#0-worst,body,w58
	5825(165)				0	#3	0.064	+0.31	n/a (*a)	Plot 4-18	99.7	×1.00	16.05	17.5	×1.40	0.090	<u> </u>
	5180(36)				0	#2	0.083	+0.21	n/a (*a)	Plot 4-19	99.7	×1.00	13.55	15.0	×1.40	0.117	ant#1-worst,body,w52/53
	5260(52)				0	#2	0.046	+0.22	n/a (*a)	Plot 4-20	99.7	×1.00	13.50	15.0	×1.41	0.064	<u> </u>
	5300(60)				0	#2	0.048	+0.20	n/a (*a)	Plot 4-21	99.7	×1.00	13.56	15.0	×1.39	0.067	<u> </u>
	5320(64)				0	#2	0.050	+0.23	n/a (*a)	Plot 4-22	99.7 99.7	×1.00	13.84	15.0	×1.31	0.066 0.184	
110	5500(100)				0	#2	0.135	+0.27	n/a (*a)	Plot 4-22	99.7	×1.00	16.18	17.5 17.5	×1.36 ×1.37		ant#1-worst,body,w56
11a	5580(116) 5600(120)	6		Long	0	#2	0.086	+0.31	n/a (*a)	Plot 4-23	99.7	×1.00	16.14	17.5	×1.37	0.118 0.107	
	5700(140)		ant#1	-side	0	#2	0.078	+0.29	n/a (*a)	Plot 4-24 Plot 4-25	99.7	×1.00	15.80	17.5	×1.37	0.107	
	5745(149)			-an#1	0	#2	0.093	+0.33	n/a (*a) n/a (*a)	Plot 4-25 Plot 4-26	99.7	×1.00	15.80	17.5	×1.48	0.138	ant#1-worst,body,w58
	5785(157)				0	#2	0.118	+0.32	n/a (*a)	Plot 4-26 Plot 4-27	99.7	×1.00	15.91	17.5	×1.44	0.170	anii+1-worsi,dody,w38
	5825(165)				0	#2	0.118	+0.31	n/a (*a)	Plot 4-27 Plot 4-28	99.7	×1.00	16.39	17.5	×1.42	0.166	[
	5270(54)				0	#2	0.129	+0.31	n/a (*a)	Plot 4-28 Plot 2-29	99.7	×1.00	12.16	17.5	×1.29	0.100	[
n40HT	5550(110)	MCSO			0	#2	0.028	+0.24	n/a (*a)	Plot 2-29	99.3	×1.01	12.10	13.5	×1.36	0.034	[
11-0111	5795(159)	IVICOU			0	#2	0.025	+0.31	n/a (*a)	Plot 2-31	99.3	×1.01	12.22	13.5	×1.34	0.054	[
\Box		777.4				πL	U.U43	10.20	ma (a)	P1012-31	11.5	^1.01	14.41	13.3	^1.JJ	0.030	Г

^{*1.} Since this EUT is the medical device, the EUT is only used under the guidance of a doctor or a qualified person. The possibility of the maximum RF human exposure is only a body/head of the patient who comes in contact directly on the front surface (patient side) of the EUT. Therefore, the SAR test was only considered to the front surface of the EUT. However, SAR value couldn't be measured at the front surface, so SAR was evaluated on the side edge.

Notes: *. Gap: It is the separation distance between the platform outer surface and the bottom outer surface of phantom; Freq.: Frequency; Bty.ID: Battery ID (Battery #2 and #3 were same model. Refer to Appendix 1 for more detail); Max.: Maximum, Meas.: Measured value; n/a: not applied.

Calibration frequency of the SAR measurement probe (and used conversion factors)

SAR test frequency	Probe calibration frequency	Validity	Conversion factor	Uncertainty
2412, 2417, 2427, 2437, 2462 MHz	2450 MHz	within ±50MHz of calibration frequency	7	±12.0%
5180, 5260, 5270, 5300, 5320 MHz	5250 MHz	within ±110 MHz of calibration frequency	5.04	±13.1 %
5500, 5550, 5580, 5600, 5700 MHz	5600 MHz	within ±110 MHz of calibration frequency	4.61	±13.1 %
5745, 5785, 5795, 5825 MHz	5750 MHz	within ±110 MHz of calibration frequency	4.66	±13.1 %

^{*.} The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^{*}a. Since the calculated Δ SAR values of the tested liquid had shown positive correction, the measured SAR was not converted by Δ SAR correction.

Duty scaled = Duty scaled factor: Duty cycle correction factor for obtained SAR value, Duty scaled factor [-] = 100(%) / (duty cycle, %) Tune-up factor: Power tune-up factor for obtained SAR value, Tune-up factor [-] = 1/(10 %) ("Deviation from max., dB"/10))