

## SAR TEST REPORT



The following samples were submitted and identified on behalf of the client as:

<b>Equipment Under Test</b>	Notebook Computer
<b>Brand Name</b>	HP
<b>Model No.</b>	TPN-H101
<b>Company Name</b>	HP Inc.
<b>Company Address</b>	1501 Page Mill Road, Palo Alto CA 94304 USA
<b>Standards</b>	IEEE/ANSI C95.1-1992, IEEE 1528-2013
<b>FCC ID</b>	B94-TNH101QS
<b>Date of Receipt</b>	Mar. 17, 2021
<b>Date of Test(s)</b>	Apr. 02, 2021 ~ Apr. 11, 2021
<b>Date of Issue</b>	May 10, 2021

In the configuration tested, the EUT complied with the standards specified above.

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Ltd. Central RF Lab or testing done by SGS Taiwan Ltd. Central RF Lab in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Ltd. Central RF Lab in writing.

**Signed on behalf of SGS**

Clerk / Kimmy Chiou	Engineer / Bond Tsai	Asst. Manager / John Yeh

**Date: May 10, 2021**

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## Revision History

Report Number	Revision	Description	Issue Date
E5/2021/20015	Rev.00	Initial creation of document	May 10, 2021

Note:

1. Measurement results in the original test report E5/2021/20017 are partially leveraged in this test report E5/2021/20015.

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## 0. Guidance applied

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB616217D04v01r02

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB941225D05Av01r02

KDB447498D01v06

KDB248227D01v02r02

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# 1. General Information

## 1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab	
No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	
FCC Designation Number	TW0028
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	<a href="http://www.tw.sgs.com/">http://www.tw.sgs.com/</a>

## 1.2 Details of Applicant

Company Name	HP Inc.
Company Address	1501 Page Mill Road, Palo Alto CA 94304 USA

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### 1.3 Description of EUT

Equipment Under Test	Notebook Computer	
Brand Name	HP	
Model No.	TPN-H101	
FCC ID	B94-TNH101QS	
Integrated Module	WWAN+WLAN	Brand Name: Qualcomm Model Name: QSIP7180
Mode of Operation	<input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> HSPA+ <input checked="" type="checkbox"/> DC-HSDPA <input checked="" type="checkbox"/> LTE FDD <input checked="" type="checkbox"/> LTE TDD <input checked="" type="checkbox"/> WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) <input checked="" type="checkbox"/> Bluetooth	
Duty Cycle	WCDMA	100%
	LTE FDD	100%
	LTE TDD Power Class 3	63.3%
	LTE TDD Power Class 2	43.3%
	WLAN802.11 a/b/g/n/ac(20M/40M/80M)	Refer to page 94-98
	Bluetooth	77.1%
TX Frequency Range (MHz)	WCDMA Band II	1850 — 1910
	WCDMA Band V	824 — 849
	LTE FDD Band 2	1850 — 1910
	LTE FDD Band 4	1710 — 1755
	LTE FDD Band 5	824 — 849
	LTE FDD Band 7	2500 — 2570
	LTE FDD Band 12	699 — 716
	LTE FDD Band 13	777 — 787
	LTE FDD Band 14	788 — 798
LTE FDD Band 17	704 — 716	

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TX Frequency Range (MHz)	LTE FDD Band 25	1850	—	1915
	LTE FDD Band 26	814	—	849
	LTE FDD Band 30	2305	—	2315
	LTE TDD Band 38	2570	—	2620
	LTE TDD Band 41 Power Class 2/3	2496	—	2690
	LTE FDD Band 66	1710	—	1780
	WLAN802.11 b/g/n(20M)	2412	—	2472
	WLAN802.11 n(40M)	2422	—	2462
	WLAN802.11 a/n/ac(20M) 5.2G	5180	—	5240
	WLAN802.11 n/ac(40M) 5.2G	5190	—	5230
	WLAN802.11 ac(80M) 5.2G			5210
	WLAN802.11 a/n/ac(20M) 5.3G	5260	—	5320
	WLAN802.11 n/ac(40M) 5.3G	5270	—	5310
	WLAN802.11 ac(80M) 5.3G			5290
	WLAN802.11 a/n/ac(20M) 5.6G	5500	—	5720
	WLAN802.11 n/ac(40M) 5.6G	5510	—	5710
	WLAN802.11 ac(80M) 5.6G	5530	—	5690
	WLAN802.11 a/n/ac(20M) 5.8G	5745	—	5825
	WLAN802.11 n/ac(40M) 5.8G	5755	—	5795
WLAN802.11 ac(80M) 5.8G			5775	
Bluetooth	2402	—	2480	
Channel Number (ARFCN)	WCDMA Band II	9262	—	9538
	WCDMA Band V	4132	—	4233
	LTE FDD Band 2	18607	—	19193
	LTE FDD Band 4	19957	—	20393
	LTE FDD Band 5	20407	—	20643
	LTE FDD Band 7	20775	—	21425
	LTE FDD Band 12	23017	—	23173
	LTE FDD Band 13	23205	—	23255

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Channel Number (ARFCN)	LTE FDD Band 14	23305	—	23355
	LTE FDD Band 17	23755	—	23825
	LTE FDD Band 25	26047	—	26683
	LTE FDD Band 26	26697	—	27033
	LTE FDD Band 30	27685	—	27735
	LTE TDD Band 38	37775	—	38225
	LTE TDD Band 41 Power Class 2/3	39675	—	41565
	LTE FDD Band 66	131979	—	132665
	WLAN802.11 b/g/n(20M)	1	—	13
	WLAN802.11 n(40M)	3	—	11
	WLAN802.11 a/n/ac(20M) 5.2G	36	—	48
	WLAN802.11 n/ac(40M) 5.2G	38	—	46
	WLAN802.11 ac(80M) 5.2G		42	
	WLAN802.11 a/n/ac(20M) 5.3G	52	—	64
	WLAN802.11 n/ac(40M) 5.3G	54	—	62
	WLAN802.11 ac(80M) 5.3G	58		
	WLAN802.11 a/n/ac(20M) 5.6G	100	—	144
	WLAN802.11 n/ac(40M) 5.6G	102	—	142
	WLAN802.11 ac(80M) 5.6G	106	—	138
	WLAN802.11 a/n/ac(20M) 5.8G	149	—	165
	WLAN802.11 n/ac(40M) 5.8G	151	—	159
WLAN802.11 ac(80M) 5.8G		155		
Bluetooth	0	—	78	

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**Reduce Power TB mode**

Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WCDMA Band II	0.79	0.79	9538	Back side
WCDMA Band V	0.62	0.65	4132	Back side
LTE FDD Band 2	0.75	0.82	18700	Back side
LTE FDD Band 4	0.81	0.83	20300	Back side
LTE FDD Band 5	0.68	0.71	20450	Back side
LTE FDD Band 7	0.57	0.62	21350	Back side
LTE FDD Band 12	0.70	0.71	23095	Back side
LTE FDD Band 13	0.67	0.71	23230	Back side
LTE FDD Band 14	0.69	0.71	23330	Back side
LTE FDD Band 17	0.68	0.71	23790	Back side
LTE FDD Band 25	0.78	0.79	26140	Back side
LTE FDD Band 26	0.66	0.68	26765	Back side
LTE FDD Band 30	0.62	0.62	27710	Back side
LTE TDD Band 38	0.59	0.60	37850	Back side
LTE TDD Band 41	0.57	0.60	41490	Back side
LTE TDD Band 41(HPUE)	0.56	0.60	41055	Back side
LTE FDD Band 66	0.77	0.78	132572	Back side

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**Reduce Power TB mode**

Main antenna				
Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WLAN 802.11b	0.24	0.24	6	Top side
Bluetooth(GFSK)	0.06	0.10	78	Top side
WLAN 802.11n(40M) 5.2G	0.60	0.64	46	Top side
WLAN 802.11a 5.3G	0.82	0.87	56	Top side
WLAN 802.11n(40M) 5.3G	0.82	0.88	54	Top side
WLAN 802.11ac(80M) 5.6G	0.46	0.47	138	Top side
WLAN 802.11ac(80M) 5.8G	0.55	0.58	155	Top side

Aux antenna				
Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WLAN 802.11b	0.93	0.96	2	Back side
WLAN 802.11n(40M) 5.2G	0.10	0.10	38	Top side
WLAN 802.11n(40M) 5.3G	0.16	0.18	54	Top side
WLAN 802.11n(40M) 5.6G	0.96	1.02	110	Top side
WLAN 802.11ac(80M) 5.6G	0.99	1.02	138	Top side
WLAN 802.11n(40M) 5.8G	0.98	1.02	151	Top side
WLAN 802.11ac(80M) 5.8G	1.11	1.13	155	Top side

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### Antenna Information

Vendor	INPAQ									
Antenna	Main					Aux				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5875	2400~2500	5150~5250	5250~5350	5470~5725	5725~5875
Gain (dBi)	-2.26	-1.27	-3.40	0.48	0.44	-2.1	-1.15	-0.41	0.81	-1.97

Gain table(dBi)	
Antenna	INPAQ MDA-LTE12-02-001
Band	WWAN
WCDMA BII	1.57
WCDMA BV	-3.33
LTE Band 2	1.57
LTE Band 4	2.09
LTE Band 5	-3.33
LTE Band 7	-1.28
LTE Band 12	-4.69
LTE Band 13	-2.60
LTE Band 14	-2.93
LTE Band 25	1.57
LTE Band 26	-3.33
LTE Band 30	1.30
LTE Band 38	-3.60
LTE Band 41	-1.28
LTE Band 66	2.09

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### 1.3.1 Full power-WCDMA

#### Band II /Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA conducted power table:

Unit: dBm

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.00		
3GPP Rel 99	RMC 12.2Kbps	23.48	23.37	23.30
3GPP Rel 5	HSDPA Subtest-1	23.11	23.00	23.10
	HSDPA Subtest-2	23.11	23.04	23.07
	HSDPA Subtest-3	22.61	22.50	22.52
	HSDPA Subtest-4	22.62	22.55	22.53
3GPP Rel 6	HSUPA Subtest-1	23.10	23.00	23.05
	HSUPA Subtest-2	21.13	21.01	21.09
	HSUPA Subtest-3	22.11	21.98	22.05
	HSUPA Subtest-4	21.11	20.97	21.08
3GPP Rel 7	HSPA+	20.62	20.50	20.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.13	22.97	23.01
	DC-HSDPA Subtest-2	23.18	23.03	23.01
	DC-HSDPA Subtest-3	22.65	22.48	22.55
	DC-HSDPA Subtest-4	22.61	22.52	22.56
Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.00		
3GPP Rel 99	RMC 12.2Kbps	23.30	23.20	23.27
3GPP Rel 5	HSDPA Subtest-1	22.98	22.90	22.93
	HSDPA Subtest-2	22.92	22.83	22.91
	HSDPA Subtest-3	22.46	22.31	22.38
	HSDPA Subtest-4	22.49	22.35	22.37
3GPP Rel 6	HSUPA Subtest-1	22.94	22.82	22.90
	HSUPA Subtest-2	20.97	20.80	20.91
	HSUPA Subtest-3	21.92	21.81	21.97
	HSUPA Subtest-4	21.00	20.87	20.92
3GPP Rel 7	HSPA+	20.47	20.33	20.43
3GPP Rel 8	DC-HSDPA Subtest-1	22.97	22.89	22.95
	DC-HSDPA Subtest-2	22.95	22.81	22.95
	DC-HSDPA Subtest-3	22.46	22.36	22.39
	DC-HSDPA Subtest-4	22.47	22.32	22.39

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

### 1.3.2 Reduced power- Tablet mode -WCDMA

#### Band II /Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA conducted power table:

Unit: dBm

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		14.00		
3GPP Rel 99	RMC 12.2Kbps	13.35	13.70	13.99
3GPP Rel 5	HSDPA Subtest-1	12.88	13.24	13.76
	HSDPA Subtest-2	12.88	13.33	13.71
	HSDPA Subtest-3	12.40	12.77	13.13
	HSDPA Subtest-4	12.47	12.86	13.13
3GPP Rel 6	HSUPA Subtest-1	12.90	13.24	13.67
	HSUPA Subtest-2	10.90	11.28	11.76
	HSUPA Subtest-3	11.90	12.25	12.70
	HSUPA Subtest-4	10.91	11.27	11.77
3GPP Rel 7	HSUPA Subtest-5	12.97	13.34	13.64
	HSPA+	10.43	10.76	11.09
3GPP Rel 8	DC-HSDPA Subtest-1	12.91	13.29	13.67
	DC-HSDPA Subtest-2	12.96	13.36	13.60
	DC-HSDPA Subtest-3	12.48	12.71	13.17
	DC-HSDPA Subtest-4	12.41	12.82	13.15
Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		18.50		
3GPP Rel 99	RMC 12.2Kbps	18.29	18.16	18.12
3GPP Rel 5	HSDPA Subtest-1	17.89	17.82	17.73
	HSDPA Subtest-2	17.84	17.77	17.67
	HSDPA Subtest-3	17.38	17.19	17.22
	HSDPA Subtest-4	17.46	17.22	17.22
3GPP Rel 6	HSUPA Subtest-1	17.85	17.70	17.74
	HSUPA Subtest-2	15.93	15.66	15.68
	HSUPA Subtest-3	16.88	16.70	16.81
	HSUPA Subtest-4	15.89	15.83	15.74
3GPP Rel 7	HSUPA Subtest-5	17.94	17.70	17.75
	HSPA+	15.43	15.28	15.24
3GPP Rel 8	DC-HSDPA Subtest-1	17.91	17.84	17.70
	DC-HSDPA Subtest-2	17.86	17.75	17.75
	DC-HSDPA Subtest-3	17.40	17.32	17.19
	DC-HSDPA Subtest-4	17.37	17.21	17.22

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## Sub-Test for HSDPA

SUB-TEST	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

## Sub-Test for HSUPA

SUB-TEST	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1)	$\beta_{ec}$	$\beta_{ed}$ (Note 5) (Note 6)	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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### 1.3.3 Full power

#### LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 14 / Band 17 / Band 25 / Band 26 / Band 30 / Band 66 power table:

LTE Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1860	1880	1900			
Channel				18700	18900	19100			
20	QPSK	1	0	23.45	23.46	23.52	24.00	0	
		1	50	23.44	23.43	23.45	24.00	0	
		1	99	23.40	23.41	23.42	24.00	0	
		50	0	22.49	22.55	22.59	23.00	1	
		50	25	22.46	22.51	22.52	23.00	1	
		50	50	22.43	22.45	22.44	23.00	1	
	16-QAM	100	0	22.40	22.42	22.47	23.00	1	
		1	0	22.41	22.46	22.50	23.00	1	
		1	50	22.49	22.45	22.41	23.00	1	
		1	99	22.47	22.41	22.46	23.00	1	
		50	0	21.47	21.53	21.55	22.00	2	
		50	25	21.46	21.51	21.46	22.00	2	
	64-QAM	50	50	21.42	21.44	21.46	22.00	2	
		100	0	21.49	21.46	21.41	22.00	2	
		1	0	21.42	21.46	21.42	22.00	2	
		1	50	21.45	21.46	21.46	22.00	2	
		1	99	21.43	21.48	21.43	22.00	2	
		50	0	20.49	20.53	20.50	21.00	3	
	15	QPSK	50	25	20.40	20.49	20.52	21.00	3
			50	50	20.46	20.47	20.46	21.00	3
			100	0	20.40	20.48	20.40	21.00	3
1			0	23.44	23.49	23.47	24.00	0	
1			36	23.49	23.45	23.42	24.00	0	
1			74	23.44	23.48	23.43	24.00	0	
16-QAM		36	0	22.44	22.49	22.57	23.00	1	
		36	18	22.49	22.41	22.51	23.00	1	
		36	37	22.47	22.42	22.47	23.00	1	
		75	0	22.45	22.46	22.44	23.00	1	
		1	0	22.41	22.49	22.44	23.00	1	
		1	36	22.46	22.45	22.43	23.00	1	
64-QAM		1	74	22.41	22.47	22.45	23.00	1	
		36	0	21.49	21.47	21.49	22.00	2	
		36	18	21.42	21.51	21.41	22.00	2	
	36	37	21.44	21.47	21.46	22.00	2		
	75	0	21.46	21.44	21.47	22.00	2		
	1	0	21.46	21.47	21.48	22.00	2		
64-QAM	1	36	21.40	21.46	21.47	22.00	2		
	1	74	21.45	21.40	21.48	22.00	2		
	36	0	20.48	20.50	20.48	21.00	3		
	36	18	20.46	20.45	20.49	21.00	3		
	36	37	20.40	20.48	20.47	21.00	3		
	75	0	20.46	20.42	20.43	21.00	3		

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LTE Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1880	1905			
Channel			18650	18900	19150			
10	QPSK	1	0	23.45	23.47	23.50	24.00	0
		1	25	23.44	23.47	23.40	24.00	0
		1	49	23.49	23.44	23.48	24.00	0
		25	0	22.48	22.45	22.59	23.00	1
		25	12	22.44	22.49	22.51	23.00	1
		25	25	22.46	22.44	22.41	23.00	1
	16-QAM	50	0	22.43	22.46	22.41	23.00	1
		1	0	22.44	22.45	22.44	23.00	1
		1	25	22.46	22.42	22.40	23.00	1
		1	49	22.40	22.45	22.41	23.00	1
		25	0	21.49	21.43	21.47	22.00	2
		25	12	21.49	21.47	21.41	22.00	2
	64-QAM	25	25	21.41	21.46	21.40	22.00	2
		50	0	21.47	21.48	21.48	22.00	2
		1	0	21.49	21.43	21.41	22.00	2
		1	25	21.40	21.49	21.47	22.00	2
		1	49	21.47	21.40	21.47	22.00	2
		25	0	20.47	20.46	20.46	21.00	3
		25	12	20.41	20.40	20.50	21.00	3
		25	25	20.40	20.40	20.48	21.00	3
Frequency (MHz)			1852.5	1880	1907.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			18625	18900	19175			
5	QPSK	1	0	23.48	23.46	23.50	24.00	0
		1	12	23.47	23.43	23.47	24.00	0
		1	24	23.48	23.49	23.47	24.00	0
		12	0	22.46	22.45	22.58	23.00	1
		12	6	22.49	22.42	22.50	23.00	1
		12	13	22.44	22.48	22.43	23.00	1
	16-QAM	25	0	22.42	22.44	22.49	23.00	1
		1	0	22.41	22.46	22.43	23.00	1
		1	12	22.48	22.43	22.41	23.00	1
		1	24	22.46	22.46	22.46	23.00	1
		12	0	21.47	21.49	21.47	22.00	2
		12	6	21.48	21.49	21.40	22.00	2
	64-QAM	12	13	21.49	21.44	21.41	22.00	2
		25	0	21.44	21.46	21.40	22.00	2
		1	0	21.49	21.46	21.47	22.00	2
		1	12	21.48	21.41	21.43	22.00	2
		1	24	21.43	21.46	21.40	22.00	2
		12	0	20.47	20.45	20.49	21.00	3
		12	6	20.40	20.40	20.47	21.00	3
		12	13	20.43	20.43	20.46	21.00	3
25	0	20.46	20.41	20.43	21.00	3		

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LTE Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1851.5	1880	1908.5			
Channel			18615	18900	19185			
3	QPSK	1	0	23.45	23.46	23.51	24.00	0
		1	7	23.44	23.43	23.44	24.00	0
		1	14	23.47	23.41	23.45	24.00	0
		8	0	22.44	22.52	22.58	23.00	1
		8	4	22.43	22.49	22.47	23.00	1
		8	7	22.45	22.48	22.49	23.00	1
	16-QAM	15	0	22.47	22.42	22.40	23.00	1
		1	0	22.42	22.45	22.42	23.00	1
		1	7	22.49	22.41	22.41	23.00	1
		1	14	22.47	22.44	22.46	23.00	1
		8	0	21.44	21.52	21.52	22.00	2
		8	4	21.46	21.46	21.46	22.00	2
	64-QAM	8	7	21.41	21.45	21.47	22.00	2
		15	0	21.49	21.40	21.40	22.00	2
		1	0	21.40	21.49	21.40	22.00	2
		1	7	21.45	21.45	21.46	22.00	2
		1	14	21.41	21.45	21.41	22.00	2
		8	0	20.40	20.53	20.47	21.00	3
		8	4	20.40	20.47	20.45	21.00	3
		8	7	20.48	20.44	20.43	21.00	3
		15	0	20.44	20.42	20.44	21.00	3
Frequency (MHz)			1850.7	1880	1909.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			18607	18900	19193			
1.4	QPSK	1	0	23.42	23.43	23.51	24.00	0
		1	2	23.44	23.45	23.46	24.00	0
		1	5	23.40	23.45	23.42	24.00	0
		3	0	23.40	23.44	23.51	24.00	0
		3	2	23.26	23.23	23.44	24.00	0
		3	3	23.20	23.20	23.49	24.00	0
	16-QAM	6	0	22.47	22.42	22.41	23.00	1
		1	0	22.46	22.41	22.42	23.00	1
		1	2	22.42	22.45	22.46	23.00	1
		1	5	22.43	22.43	22.42	23.00	1
		3	0	22.48	22.49	22.55	23.00	1
		3	2	22.41	22.42	22.43	23.00	1
		3	3	22.45	22.45	22.43	23.00	1
		6	0	21.48	21.46	21.46	22.00	2
		64-QAM	1	0	21.47	21.46	21.47	22.00
	1		2	21.43	21.43	21.40	22.00	2
	1		5	21.47	21.40	21.43	22.00	2
	3		0	21.44	21.48	21.50	22.00	2
	3		2	21.40	21.49	21.50	22.00	2
	3		3	21.45	21.46	21.44	22.00	2
	6	0	20.42	20.47	20.49	21.00	3	

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LTE Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1720	1732.5	1745				
Channel			20050	20175	20300				
20	QPSK	1	0	23.69	23.62	23.60	24.00	0	
		1	50	23.67	23.60	23.58	24.00	0	
		1	99	23.59	23.52	23.53	24.00	0	
		50	0	22.73	22.66	22.64	23.00	1	
		50	25	22.64	22.57	22.55	23.00	1	
		50	50	22.54	22.55	22.55	23.00	1	
	100	0	22.48	22.54	22.51	23.00	1		
	16-QAM	1	0	22.65	22.55	22.53	23.00	1	
		1	50	22.65	22.56	22.55	23.00	1	
		1	99	22.55	22.56	22.53	23.00	1	
		50	0	21.70	21.64	21.58	22.00	2	
		50	25	21.62	21.54	21.56	22.00	2	
		50	50	21.52	21.55	21.56	22.00	2	
	100	0	21.47	21.61	21.57	22.00	2		
	64-QAM	1	0	21.65	21.52	21.60	22.00	2	
		1	50	21.60	21.59	21.57	22.00	2	
		1	99	21.59	21.59	21.59	22.00	2	
		50	0	20.68	20.64	20.61	21.00	3	
		50	25	20.56	20.52	20.59	21.00	3	
		50	50	20.52	20.59	20.57	21.00	3	
	100	0	20.53	20.59	20.51	21.00	3		
	Frequency (MHz)				1717.5	1732.5	1747.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				20025	20175	20325		
	15	QPSK	1	0	23.62	23.62	23.60	24.00	0
1			36	23.66	23.54	23.57	24.00	0	
1			74	23.53	23.57	23.56	24.00	0	
36			0	22.73	22.66	22.64	23.00	1	
36			18	22.56	22.57	22.58	23.00	1	
36			37	22.54	22.54	22.59	23.00	1	
75		0	22.48	22.58	22.53	23.00	1		
16-QAM		1	0	22.59	22.59	22.59	23.00	1	
		1	36	22.65	22.58	22.57	23.00	1	
		1	74	22.51	22.58	22.54	23.00	1	
		36	0	21.63	21.61	21.56	22.00	2	
		36	18	21.62	21.52	21.60	22.00	2	
		36	37	21.52	21.60	21.56	22.00	2	
75		0	21.47	21.52	21.52	22.00	2		
64-QAM		1	0	21.57	21.58	21.54	22.00	2	
		1	36	21.59	21.53	21.57	22.00	2	
		1	74	21.51	21.55	21.54	22.00	2	
		36	0	20.63	20.59	20.51	21.00	3	
		36	18	20.52	20.60	20.57	21.00	3	
		36	37	20.56	20.59	20.55	21.00	3	
75		0	20.53	20.59	20.55	21.00	3		

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LTE Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1715	1732.5	1750			
Channel			20000	20175	20350			
10	QPSK	1	0	23.68	23.57	23.53	24.00	0
		1	25	23.65	23.53	23.55	24.00	0
		1	49	23.57	23.52	23.52	24.00	0
		25	0	22.70	22.65	22.61	23.00	1
		25	12	22.57	22.61	22.57	23.00	1
		25	25	22.51	22.61	22.59	23.00	1
	16-QAM	50	0	22.47	22.58	22.53	23.00	1
		1	0	22.55	22.56	22.51	23.00	1
		1	25	22.64	22.53	22.57	23.00	1
		1	49	22.53	22.60	22.60	23.00	1
		25	0	21.63	21.59	21.60	22.00	2
		25	12	21.59	21.58	21.58	22.00	2
	64-QAM	25	25	21.56	21.60	21.59	22.00	2
		50	0	21.50	21.58	21.60	22.00	2
		1	0	21.60	21.52	21.51	22.00	2
		1	25	21.52	21.55	21.54	22.00	2
		1	49	21.56	21.52	21.55	22.00	2
		25	0	20.64	20.60	20.59	21.00	3
		25	12	20.53	20.57	20.52	21.00	3
		25	25	20.56	20.60	20.57	21.00	3
Frequency (MHz)			1712.5	1732.5	1752.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			19975	20175	20375			
5	QPSK	1	0	23.60	23.56	23.57	24.00	0
		1	12	23.61	23.58	23.52	24.00	0
		1	24	23.49	23.52	23.60	24.00	0
		12	0	22.68	22.65	22.63	23.00	1
		12	6	22.57	22.60	22.53	23.00	1
		12	13	22.47	22.58	22.55	23.00	1
	16-QAM	25	0	22.55	22.56	22.54	23.00	1
		1	0	22.60	22.58	22.56	23.00	1
		1	12	22.57	22.56	22.60	23.00	1
		1	24	22.52	22.59	22.59	23.00	1
		12	0	21.69	21.59	21.55	22.00	2
		12	6	21.56	21.61	21.60	22.00	2
	64-QAM	12	13	21.52	21.56	21.58	22.00	2
		25	0	21.52	21.61	21.59	22.00	2
		1	0	21.58	21.60	21.54	22.00	2
		1	12	21.56	21.55	21.60	22.00	2
		1	24	21.51	21.58	21.52	22.00	2
		12	0	20.62	20.58	20.55	21.00	3
Frequency (MHz)			1712.5	1732.5	1752.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			19975	20175	20375			
5	QPSK	12	6	20.56	20.61	20.53	21.00	3
		12	13	20.49	20.55	20.57	21.00	3
		25	0	20.48	20.59	20.60	21.00	3

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LTE Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
Channel				19965	20175	20385			
3	QPSK	1	0	23.67	23.62	23.52	24.00	0	
		1	7	23.62	23.58	23.58	24.00	0	
		1	14	23.49	23.59	23.60	24.00	0	
		8	0	22.71	22.62	22.62	23.00	1	
		8	4	22.57	22.58	22.60	23.00	1	
		8	7	22.49	22.55	22.51	23.00	1	
	16-QAM	15	0	22.50	22.53	22.52	23.00	1	
		1	0	22.55	22.61	22.58	23.00	1	
		1	7	22.63	22.56	22.58	23.00	1	
		1	14	22.47	22.59	22.54	23.00	1	
		8	0	21.62	21.60	21.58	22.00	2	
		8	4	21.58	21.56	21.54	22.00	2	
	64-QAM	8	7	21.51	21.59	21.55	22.00	2	
		15	0	21.47	21.59	21.59	22.00	2	
		1	0	21.60	21.52	21.52	22.00	2	
		1	7	21.54	21.59	21.58	22.00	2	
		1	14	21.59	21.58	21.56	22.00	2	
		8	0	20.62	20.61	20.52	21.00	3	
	Frequency (MHz)				1710.7	1732.5	1754.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				19957	20175	20393		
	1.4	QPSK	1	0	23.59	23.54	23.54	24.00	0
			1	2	23.59	23.53	23.52	24.00	0
			1	5	23.50	23.58	23.56	24.00	0
			3	0	23.67	23.57	23.57	24.00	0
3			2	23.64	23.52	23.59	24.00	0	
3			3	23.52	23.60	23.56	24.00	0	
16-QAM		6	0	22.47	22.54	22.60	23.00	1	
		1	0	22.56	22.52	22.60	23.00	1	
		1	2	22.65	22.54	22.56	23.00	1	
		1	5	22.49	22.59	22.56	23.00	1	
		3	0	22.68	22.54	22.60	23.00	1	
		3	2	22.61	22.60	22.59	23.00	1	
64-QAM		3	3	22.55	22.61	22.59	23.00	1	
		6	0	21.50	21.61	21.56	22.00	2	
		1	0	21.58	21.55	21.51	22.00	2	
		1	2	21.55	21.60	21.55	22.00	2	
		1	5	21.49	21.61	21.54	22.00	2	
		3	0	21.61	21.57	21.57	22.00	2	
Frequency (MHz)				1710.7	1732.5	1754.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				19957	20175	20393			
1.4		QPSK	3	2	21.55	21.55	21.56	22.00	2
			3	3	21.51	21.54	21.59	22.00	2
			3	0	20.51	20.57	20.58	21.00	3
			6	0	20.51	20.57	20.58	21.00	3

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LTE Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			829	836.5	844			
Channel			20450	20525	20600			
10	QPSK	1	0	23.31	23.33	23.30	24.00	0
		1	25	23.22	23.27	23.17	24.00	0
		1	49	23.21	23.28	23.25	24.00	0
		25	0	22.31	22.40	22.33	23.00	1
		25	12	22.29	22.36	22.28	23.00	1
		25	25	22.24	22.35	22.29	23.00	1
	16-QAM	50	0	22.30	22.37	22.26	23.00	1
		1	0	22.29	22.30	22.28	23.00	1
		1	25	22.19	22.17	22.11	23.00	1
		1	49	22.15	22.28	22.25	23.00	1
		25	0	21.27	21.38	21.26	22.00	2
		25	12	21.21	21.34	21.24	22.00	2
	64-QAM	25	25	21.29	21.35	21.20	22.00	2
		50	0	21.22	21.36	21.25	22.00	2
		1	0	21.22	21.29	21.29	22.00	2
		1	25	21.14	21.27	21.09	22.00	2
		1	49	21.15	21.26	21.17	22.00	2
		25	0	20.19	20.40	20.24	21.00	3
		25	12	20.23	20.29	20.24	21.00	3
		25	25	20.31	20.34	20.20	21.00	3
Frequency (MHz)			826.5	836.5	846.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20425	20525	20625			
5	QPSK	1	0	23.25	23.23	23.25	24.00	0
		1	12	23.12	23.24	23.12	24.00	0
		1	24	23.15	23.25	23.23	24.00	0
		12	0	22.25	22.37	22.31	23.00	1
		12	6	22.20	22.34	22.20	23.00	1
		12	13	22.25	22.25	22.20	23.00	1
	16-QAM	25	0	22.26	22.31	22.17	23.00	1
		1	0	22.23	22.21	22.24	23.00	1
		1	12	22.15	22.08	22.08	23.00	1
		1	24	22.05	22.23	22.16	23.00	1
		12	0	21.23	21.38	21.23	22.00	2
		12	6	21.12	21.32	21.16	22.00	2
	64-QAM	12	13	21.23	21.27	21.20	22.00	2
		25	0	21.17	21.28	21.16	22.00	2
		1	0	21.12	21.24	21.23	22.00	2
		1	12	21.14	21.23	20.99	22.00	2
		1	24	21.05	21.22	21.07	22.00	2
		12	0	20.16	20.35	20.18	21.00	3
		12	6	20.17	20.21	20.17	21.00	3
		12	13	20.23	20.32	20.17	21.00	3
25	0	20.13	20.23	20.15	21.00	3		

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LTE Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				825.5	836.5	847.5			
Channel				20415	20525	20635			
3	QPSK	1	0	23.24	23.30	23.28	24.00	0	
		1	7	23.16	23.26	23.09	24.00	0	
		1	14	23.18	23.19	23.21	24.00	0	
		8	0	22.25	22.33	22.31	23.00	1	
		8	4	22.24	22.27	22.28	23.00	1	
		8	7	22.23	22.28	22.25	23.00	1	
	16-QAM	15	0	22.21	22.28	22.18	23.00	1	
		1	0	22.26	22.22	22.24	23.00	1	
		1	7	22.16	22.10	22.11	23.00	1	
		1	14	22.13	22.19	22.23	23.00	1	
		8	0	21.22	21.35	21.24	22.00	2	
		8	4	21.17	21.27	21.14	22.00	2	
	64-QAM	8	7	21.25	21.35	21.20	22.00	2	
		15	0	21.14	21.30	21.18	22.00	2	
		1	0	21.19	21.24	21.26	22.00	2	
		1	7	21.05	21.20	21.04	22.00	2	
		1	14	21.12	21.18	21.10	22.00	2	
		8	0	20.09	20.30	20.18	21.00	3	
	Frequency (MHz)				824.7	836.5	848.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				20407	20525	20643		
	1.4	QPSK	1	0	23.27	23.29	23.30	24.00	0
			1	2	23.15	23.17	23.15	24.00	0
			1	5	23.11	23.26	23.16	24.00	0
			3	0	23.29	23.37	23.26	24.00	0
3			2	23.20	23.30	23.24	24.00	0	
3			3	23.30	23.32	23.28	24.00	0	
16-QAM		6	0	22.20	22.29	22.26	23.00	1	
		1	0	22.23	22.28	22.28	23.00	1	
		1	2	22.13	22.14	22.10	23.00	1	
		1	5	22.13	22.22	22.21	23.00	1	
		3	0	22.17	22.31	22.21	23.00	1	
		3	2	22.15	22.26	22.16	23.00	1	
64-QAM		3	3	22.20	22.30	22.11	23.00	1	
		6	0	21.21	21.32	21.25	22.00	2	
		1	0	21.17	21.25	21.19	22.00	2	
		1	2	21.05	21.23	21.04	22.00	2	
		1	5	21.08	21.18	21.16	22.00	2	
		3	0	21.10	21.37	21.23	22.00	2	
Frequency (MHz)				824.7	836.5	848.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				20407	20525	20643			
1.4	QPSK	3	2	21.13	21.29	21.21	22.00	2	
		3	3	21.27	21.29	21.15	22.00	2	
		6	0	20.14	20.20	20.25	21.00	3	

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LTE Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2510	2535	2560			
Channel			20850	21100	21350			
20	QPSK	1	0	23.24	23.25	23.36	24.00	0
		1	50	23.22	23.21	23.29	24.00	0
		1	99	23.20	23.20	23.25	24.00	0
		50	0	22.36	22.34	22.48	23.00	1
		50	25	22.35	22.34	22.47	23.00	1
		50	50	22.27	22.23	22.43	23.00	1
	16-QAM	100	0	22.33	22.25	22.45	23.00	1
		1	0	22.29	22.25	22.36	23.00	1
		1	50	22.28	22.22	22.21	23.00	1
		1	99	22.24	22.28	22.25	23.00	1
		50	0	21.26	21.25	21.40	22.00	2
		50	25	21.29	21.33	21.47	22.00	2
	64-QAM	50	50	21.29	21.28	21.34	22.00	2
		100	0	21.33	21.25	21.35	22.00	2
		1	0	21.27	21.25	21.30	22.00	2
		1	50	21.23	21.22	21.24	22.00	2
		1	99	21.20	21.23	21.20	22.00	2
		50	0	20.29	20.33	20.43	21.00	3
	Frequency (MHz)			2507.5	2535	2562.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			20825	21100	21375		
	15	QPSK	1	0	23.24	23.24	23.26	24.00
1			36	23.28	23.20	23.23	24.00	0
1			74	23.28	23.20	23.27	24.00	0
36			0	22.28	22.33	22.45	23.00	1
36			18	22.35	22.32	22.39	23.00	1
36			37	22.28	22.22	22.37	23.00	1
16-QAM		75	0	22.27	22.23	22.42	23.00	1
		1	0	22.28	22.25	22.29	23.00	1
		1	36	22.23	22.22	22.28	23.00	1
		1	74	22.25	22.27	22.23	23.00	1
		36	0	21.25	21.20	21.36	22.00	2
		36	18	21.27	21.28	21.38	22.00	2
64-QAM		36	37	21.24	21.27	21.27	22.00	2
		75	0	21.32	21.24	21.27	22.00	2
		1	0	21.24	21.22	21.20	22.00	2
		1	36	21.23	21.24	21.29	22.00	2
		1	74	21.23	21.20	21.22	22.00	2
		36	0	20.28	20.23	20.35	21.00	3
Frequency (MHz)			2507.5	2535	2562.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20825	21100	21375			
15	QPSK	36	18	20.28	20.23	20.35	21.00	3
		36	37	20.23	20.23	20.32	21.00	3
		36	37	20.23	20.23	20.32	21.00	3
		75	0	20.23	20.22	20.34	21.00	3

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LTE Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2505	2535	2565			
Channel			20800	21100	21400			
10	QPSK	1	0	23.26	23.28	23.31	24.00	0
		1	25	23.24	23.27	23.23	24.00	0
		1	49	23.23	23.27	23.28	24.00	0
		25	0	22.31	22.26	22.40	23.00	1
		25	12	22.35	22.27	22.38	23.00	1
		25	25	22.21	22.23	22.36	23.00	1
	16-QAM	50	0	22.32	22.26	22.42	23.00	1
		1	0	22.20	22.22	22.35	23.00	1
		1	25	22.29	22.25	22.20	23.00	1
		1	49	22.21	22.26	22.27	23.00	1
		25	0	21.24	21.29	21.34	22.00	2
		25	12	21.21	21.32	21.46	22.00	2
	64-QAM	25	25	21.21	21.21	21.28	22.00	2
		50	0	21.32	21.23	21.34	22.00	2
		1	0	21.21	21.25	21.25	22.00	2
		1	25	21.20	21.29	21.21	22.00	2
		1	49	21.25	21.20	21.20	22.00	2
		25	0	20.21	20.28	20.38	21.00	3
	Frequency (MHz)			2502.5	2535	2567.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			20775	21100	21425		
5	QPSK	1	0	23.28	23.22	23.35	24.00	0
		1	12	23.25	23.21	23.23	24.00	0
		1	24	23.25	23.26	23.24	24.00	0
		12	0	22.32	22.31	22.46	23.00	1
		12	6	22.31	22.29	22.44	23.00	1
		12	13	22.20	22.26	22.34	23.00	1
	16-QAM	25	0	22.29	22.23	22.43	23.00	1
		1	0	22.90	22.20	22.35	23.00	1
		1	12	22.22	22.22	22.80	23.00	1
		1	24	22.22	22.28	22.25	23.00	1
		12	0	21.25	21.26	21.30	22.00	2
		12	6	21.25	21.30	21.44	22.00	2
	64-QAM	12	13	21.20	21.20	21.24	22.00	2
		25	0	21.32	21.27	21.30	22.00	2
		1	0	21.25	21.29	21.20	22.00	2
		1	12	21.26	21.20	21.22	22.00	2
		1	24	21.20	21.28	21.22	22.00	2
		12	0	20.22	20.32	20.40	21.00	3
		12	6	20.24	20.30	20.40	21.00	3
		12	13	20.29	20.29	20.37	21.00	3
25	0	20.25	20.20	20.34	21.00	3		

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LTE Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			704	707.5	711			
Channel			23060	23095	23130			
10	QPSK	1	0	23.12	23.25	23.44	24.00	0
		1	25	23.06	23.02	23.22	24.00	0
		1	49	23.03	23.00	23.16	24.00	0
		25	0	22.07	22.17	22.40	23.00	1
		25	12	22.05	22.08	22.30	23.00	1
		25	25	21.98	21.99	22.22	23.00	1
	16-QAM	50	0	22.04	22.00	22.28	23.00	1
		1	0	22.02	22.23	22.39	23.00	1
		1	25	22.01	22.00	22.18	23.00	1
		1	49	22.02	22.00	22.09	23.00	1
		25	0	21.06	21.14	21.36	22.00	2
		25	12	21.06	21.02	21.26	22.00	2
	64-QAM	25	25	20.97	21.00	21.13	22.00	2
		50	0	21.05	21.01	21.18	22.00	2
		1	0	21.03	21.24	21.40	22.00	2
		1	25	21.01	21.03	21.14	22.00	2
		1	49	21.02	21.04	21.07	22.00	2
		25	0	20.02	20.14	20.38	21.00	3
		25	12	19.98	20.03	20.22	21.00	3
		25	25	20.05	19.97	20.21	21.00	3
Frequency (MHz)			701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23035	23095	23155			
5	QPSK	1	0	23.10	23.24	23.34	24.00	0
		1	12	23.05	22.99	23.19	24.00	0
		1	24	23.06	23.04	23.07	24.00	0
		12	0	21.99	22.10	22.40	23.00	1
		12	6	22.01	22.04	22.23	23.00	1
		12	13	22.05	22.06	22.19	23.00	1
	16-QAM	25	0	22.05	21.99	22.19	23.00	1
		1	0	22.01	22.18	22.32	23.00	1
		1	12	22.05	22.05	22.16	23.00	1
		1	24	21.99	22.00	22.05	23.00	1
		12	0	21.04	21.06	21.33	22.00	2
		12	6	21.06	21.01	21.20	22.00	2
	64-QAM	12	13	21.04	20.98	21.09	22.00	2
		25	0	21.05	21.00	21.09	22.00	2
		1	0	20.99	21.18	21.32	22.00	2
		1	12	21.01	21.02	21.09	22.00	2
		1	24	20.97	21.01	21.04	22.00	2
		12	0	19.98	20.06	20.28	21.00	3
		12	6	20.06	19.97	20.21	21.00	3
		12	13	20.01	19.97	20.16	21.00	3
25	0	19.97	19.99	20.18	21.00	3		

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LTE Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				700.5	707.5	714.5			
Channel				23025	23095	23165			
3	QPSK	1	0	23.08	23.22	23.38	24.00	0	
		1	7	23.06	23.05	23.19	24.00	0	
		1	14	23.05	23.00	23.07	24.00	0	
		8	0	21.98	22.13	22.39	23.00	1	
		8	4	22.05	22.08	22.30	23.00	1	
		8	7	21.98	22.04	22.18	23.00	1	
	16-QAM	15	0	22.04	22.04	22.22	23.00	1	
		1	0	22.02	22.18	22.32	23.00	1	
		1	7	22.02	22.03	22.13	23.00	1	
		1	14	22.02	22.05	22.01	23.00	1	
		8	0	21.01	21.06	21.33	22.00	2	
		8	4	21.04	21.06	21.16	22.00	2	
	64-QAM	8	7	21.05	21.00	21.07	22.00	2	
		15	0	21.05	21.02	21.09	22.00	2	
		1	0	20.97	21.22	21.34	22.00	2	
		1	7	20.98	21.01	21.08	22.00	2	
		1	14	20.97	21.03	20.99	22.00	2	
		8	0	20.01	20.04	20.35	21.00	3	
	Frequency (MHz)				699.7	707.5	715.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				23017	23095	23173		
	1.4	QPSK	1	0	23.08	23.19	23.36	24.00	0
			1	2	23.04	23.00	23.13	24.00	0
			1	5	23.03	23.00	23.11	24.00	0
			3	0	22.06	22.08	22.34	24.00	0
3			2	22.09	22.06	22.25	24.00	0	
3			3	22.05	22.04	22.21	24.00	0	
16-QAM		6	0	21.98	22.02	22.22	23.00	1	
		1	0	22.06	22.15	22.38	23.00	1	
		1	2	21.99	21.97	22.16	23.00	1	
		1	5	22.04	22.06	22.05	23.00	1	
		3	0	21.00	21.12	21.33	23.00	1	
		3	2	21.03	21.02	21.18	23.00	1	
64-QAM		3	3	22.06	21.02	21.09	23.00	1	
		6	0	21.04	21.04	21.10	22.00	2	
		1	0	21.06	21.14	21.40	22.00	2	
		1	2	21.57	21.02	21.11	22.00	2	
		1	5	21.02	21.00	21.03	22.00	2	
		3	0	20.03	20.13	20.36	22.00	2	
Frequency (MHz)				699.7	707.5	715.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				23017	23095	23173			
QPSK		3	2	20.01	20.05	20.12	22.00	2	
		3	3	20.00	20.05	20.12	22.00	2	
		6	0	20.02	20.03	20.16	21.00	3	

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LTE Band 13								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			782	782	782			
Channel			23230	23230	23230			
10	QPSK	1	0	23.31			24.00	0
		1	25	23.29			24.00	0
		1	49	23.18			24.00	0
		25	0	22.42			23.00	1
		25	12	22.40			23.00	1
		25	25	22.37			23.00	1
	16-QAM	50	0	22.39			23.00	1
		1	0	22.29			23.00	1
		1	25	22.22			23.00	1
		1	49	22.08			23.00	1
		25	0	21.41			22.00	2
		25	12	21.33			22.00	2
	64-QAM	25	25	21.33			22.00	2
		50	0	21.35			22.00	2
		1	0	21.24			22.00	2
		1	25	21.22			22.00	2
		1	49	21.16			22.00	2
		25	0	20.37			21.00	3
	Frequency (MHz)			779.5	782	784.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			23205	23230	23255		
	5	QPSK	1	0	23.22	23.27	23.25	24.00
1			12	23.24	23.24	23.29	24.00	0
1			24	23.18	23.13	23.08	24.00	0
12			0	22.41	22.39	22.39	23.00	1
12			6	22.37	22.30	22.32	23.00	1
12			13	22.36	22.29	22.27	23.00	1
16-QAM		25	0	22.35	22.32	22.38	23.00	1
		1	0	22.21	22.25	22.22	23.00	1
		1	12	22.18	22.13	22.19	23.00	1
		1	24	22.08	22.05	22.05	23.00	1
		12	0	21.41	21.32	21.39	22.00	2
		12	6	21.32	21.26	21.23	22.00	2
64-QAM		12	13	21.30	21.27	21.30	22.00	2
		25	0	21.35	21.29	21.26	22.00	2
		1	0	21.22	21.15	21.19	22.00	2
		1	12	21.14	21.12	21.13	22.00	2
		1	24	21.10	21.07	21.06	22.00	2
		12	0	20.28	20.30	20.30	21.00	3
Frequency (MHz)			779.5	782	784.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23205	23230	23255			
5		QPSK	12	6	20.35	20.39	20.40	21.00
	12		13	20.26	20.29	20.26	21.00	3
	25		0	20.28	20.27	20.27	21.00	3
	25		0	20.28	20.27	20.27	21.00	3

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LTE Band 14								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			793	793	793			
Channel			23330	23330	23330			
10	QPSK	1	0	23.77			24.00	0
		1	25	23.67			24.00	0
		1	49	23.69			24.00	0
		25	0	22.80			23.00	1
		25	12	22.78			23.00	1
		25	25	22.64			23.00	1
	16-QAM	50	0	22.77			23.00	1
		1	0	22.77			23.00	1
		1	25	22.59			23.00	1
		1	49	22.62			23.00	1
		25	0	21.70			22.00	2
		25	12	21.70			22.00	2
	64-QAM	25	25	21.60			22.00	2
		50	0	21.77			22.00	2
		1	0	21.68			22.00	2
		1	25	21.63			22.00	2
		1	49	21.66			22.00	2
		25	0	20.80			21.00	3
Frequency (MHz)			790.5	793	795.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23305	23330	23355			
5	QPSK	1	0	23.71	23.73	23.71	24.00	0
		1	12	23.59	23.66	23.65	24.00	0
		1	24	23.65	23.61	23.59	24.00	0
		12	0	22.80	22.75	22.71	23.00	1
		12	6	22.70	22.71	22.68	23.00	1
		12	13	22.58	22.54	22.64	23.00	1
	16-QAM	25	0	22.67	22.71	22.69	23.00	1
		1	0	22.73	22.69	22.71	23.00	1
		1	12	22.50	22.53	22.55	23.00	1
		1	24	22.61	22.58	22.53	23.00	1
		12	0	21.61	21.66	21.63	22.00	2
		12	6	21.66	21.68	21.63	22.00	2
	64-QAM	12	13	21.52	21.53	21.57	22.00	2
		25	0	21.77	21.68	21.76	22.00	2
		1	0	21.66	21.59	21.59	22.00	2
		1	12	21.59	21.63	21.56	22.00	2
		1	24	21.63	21.62	21.63	22.00	2
		12	0	20.73	20.75	20.78	21.00	3
Frequency (MHz)			790.5	793	795.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23305	23330	23355			
5	QPSK	12	6	20.72	20.72	20.70	21.00	3
		12	13	20.51	20.49	20.48	21.00	3
		25	0	20.72	20.73	20.64	21.00	3

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LTE Band 17								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			709	710	711			
Channel			23780	23790	23800			
10	QPSK	1	0	23.17	23.44	23.21	24.00	0
		1	25	23.08	23.35	23.06	24.00	0
		1	49	23.01	23.26	23.03	24.00	0
		25	0	22.11	22.40	22.13	23.00	1
		25	12	22.04	22.39	22.10	23.00	1
		25	25	22.10	22.38	22.11	23.00	1
	16-QAM	50	0	22.11	22.39	22.10	23.00	1
		1	0	22.08	22.44	22.21	23.00	1
		1	25	22.02	22.33	22.06	23.00	1
		1	49	22.02	22.19	22.03	23.00	1
		25	0	21.03	21.38	21.11	22.00	2
		25	12	21.46	21.34	21.05	22.00	2
	64-QAM	25	25	21.08	21.35	21.04	22.00	2
		50	0	21.10	21.29	21.02	22.00	2
		1	0	21.07	21.40	21.21	22.00	2
		1	25	21.02	21.33	21.02	22.00	2
		1	49	21.04	21.21	21.03	22.00	2
		25	0	20.06	20.39	20.03	21.00	3
	Frequency (MHz)			706.5	710	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			23755	23790	23825		
	5	QPSK	1	0	23.16	23.41	23.17	24.00
1			12	23.02	23.32	23.00	24.00	0
1			24	23.05	23.16	23.09	24.00	0
12			0	22.01	22.37	22.10	23.00	1
12			6	22.08	22.33	22.09	23.00	1
12			13	22.06	22.37	22.04	23.00	1
16-QAM		25	0	22.03	22.39	22.00	23.00	1
		1	0	22.08	22.37	22.19	23.00	1
		1	12	22.04	22.33	22.02	23.00	1
		1	24	22.04	22.10	22.03	23.00	1
		12	0	21.04	21.32	21.05	22.00	2
		12	6	21.99	21.28	21.03	22.00	2
64-QAM		12	13	21.08	21.31	21.02	22.00	2
		25	0	21.06	21.24	21.06	22.00	2
		1	0	21.00	21.36	21.14	22.00	2
		1	12	21.07	21.29	21.02	22.00	2
		1	24	21.04	21.19	21.01	22.00	2
		12	0	20.04	20.31	20.03	21.00	3
Frequency (MHz)			706.5	710	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23755	23790	23825			
5	QPSK	12	6	20.08	20.31	20.04	21.00	3
		12	13	20.01	20.20	20.05	21.00	3
		25	0	20.00	20.30	20.07	21.00	3

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LTE Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1860	1882.5	1905				
Channel			26140	26365	26590				
20	QPSK	1	0	23.39	23.41	23.46	24.00	0	
		1	50	23.36	23.38	23.44	24.00	0	
		1	99	23.38	23.36	23.36	24.00	0	
		50	0	22.40	22.44	22.48	23.00	1	
		50	25	22.38	22.40	22.38	23.00	1	
		50	50	22.39	22.43	22.35	23.00	1	
	16-QAM	100	0	22.39	22.37	22.42	23.00	1	
		1	0	22.40	22.35	22.45	23.00	1	
		1	50	22.42	22.36	22.44	23.00	1	
		1	99	22.43	22.36	22.36	23.00	1	
		50	0	21.39	21.41	21.46	22.00	2	
		50	25	21.43	21.40	21.44	22.00	2	
	64-QAM	50	50	21.41	21.35	21.44	22.00	2	
		100	0	21.38	21.36	21.36	22.00	2	
		1	0	21.36	21.40	21.37	22.00	2	
		1	50	21.41	21.44	21.44	22.00	2	
		1	99	21.37	21.39	21.41	22.00	2	
		50	0	20.35	20.43	20.48	21.00	3	
	15	QPSK	50	25	20.41	20.40	20.37	21.00	3
			50	50	20.40	20.44	20.40	21.00	3
			100	0	20.43	20.37	20.42	21.00	3
1			0	23.38	23.37	23.45	24.00	0	
1			36	23.37	23.39	23.38	24.00	0	
1			74	23.43	23.42	23.42	24.00	0	
15	16-QAM	36	0	22.37	22.41	22.42	23.00	1	
		36	18	22.44	22.40	22.40	23.00	1	
		36	37	22.39	22.35	22.35	23.00	1	
		75	0	22.37	22.44	22.40	23.00	1	
		1	0	22.44	22.39	22.35	23.00	1	
		1	36	22.37	22.40	22.39	23.00	1	
	64-QAM	1	74	22.37	22.38	22.42	23.00	1	
		36	0	21.40	21.40	21.40	22.00	2	
		36	18	21.36	21.40	21.41	22.00	2	
		36	37	21.43	21.39	21.37	22.00	2	
		75	0	21.35	21.42	21.36	22.00	2	
		1	0	21.43	21.40	21.39	22.00	2	
		1	36	21.44	21.36	21.39	22.00	2	
		1	74	21.43	21.35	21.39	22.00	2	
		36	0	20.35	20.39	20.40	21.00	3	
36	18	20.42	20.35	20.39	21.00	3			
36	37	20.38	20.44	20.40	21.00	3			
75	0	20.41	20.38	20.43	21.00	3			

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LTE Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1882.5	1910			
Channel			26090	26365	26640			
10	QPSK	1	0	23.39	23.36	23.38	24.00	0
		1	25	23.42	23.38	23.36	24.00	0
		1	49	23.38	23.35	23.42	24.00	0
		25	0	22.44	22.39	22.47	23.00	1
		25	12	22.39	22.35	22.38	23.00	1
		25	25	22.35	22.36	22.36	23.00	1
	16-QAM	50	0	22.43	22.37	22.36	23.00	1
		1	0	22.37	22.43	22.35	23.00	1
		1	25	22.42	22.35	22.37	23.00	1
		1	49	22.40	22.35	22.40	23.00	1
		25	0	21.40	21.44	21.45	22.00	2
		25	12	21.38	21.43	21.38	22.00	2
	64-QAM	25	25	21.42	21.36	21.36	22.00	2
		50	0	21.39	21.44	21.38	22.00	2
		1	0	21.36	21.39	21.37	22.00	2
		1	25	21.36	21.42	21.41	22.00	2
		1	49	21.36	21.44	21.43	22.00	2
		25	0	20.35	20.42	20.48	21.00	3
		25	12	20.38	20.35	20.38	21.00	3
		25	25	20.37	20.39	20.40	21.00	3
Frequency (MHz)			1852.5	1882.5	1912.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26065	26365	26665			
5	QPSK	1	0	23.43	23.39	23.42	24.00	0
		1	12	23.44	23.38	23.41	24.00	0
		1	24	23.40	23.37	23.43	24.00	0
		12	0	22.44	22.44	22.47	23.00	1
		12	6	22.37	22.44	22.41	23.00	1
		12	13	22.39	22.38	22.35	23.00	1
	16-QAM	25	0	22.39	22.39	22.38	23.00	1
		1	0	22.44	22.36	22.43	23.00	1
		1	12	22.37	22.35	22.40	23.00	1
		1	24	22.35	22.41	22.36	23.00	1
		12	0	21.35	21.37	21.42	22.00	2
		12	6	21.44	21.35	21.39	22.00	2
	64-QAM	12	13	21.37	21.40	21.38	22.00	2
		25	0	21.37	21.36	21.44	22.00	2
		1	0	21.37	21.41	21.39	22.00	2
		1	12	21.39	21.35	21.36	22.00	2
		1	24	21.39	21.42	21.41	22.00	2
		12	0	20.43	20.43	20.47	21.00	3
Frequency (MHz)			1852.5	1882.5	1912.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26065	26365	26665			
5	QPSK	12	6	20.38	20.35	20.38	21.00	3
		12	13	20.39	20.42	20.44	21.00	3
		25	0	20.43	20.44	20.35	21.00	3

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LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			821.5	831.5	841.5			
Channel			26765	26865	26965			
15	QPSK	1	0	23.73	23.75	23.62	24.00	0
		1	36	23.55	23.59	23.44	24.00	0
		1	74	23.49	23.57	23.40	24.00	0
		36	0	22.66	22.72	22.58	23.00	1
		36	18	22.63	22.70	22.54	23.00	1
		36	37	22.54	22.62	22.42	23.00	1
	16-QAM	75	0	22.64	22.75	22.53	23.00	1
		1	0	22.64	22.67	22.61	23.00	1
		1	36	22.48	22.49	22.39	23.00	1
		1	74	22.45	22.52	22.30	23.00	1
		36	0	21.61	21.70	21.57	22.00	2
		36	18	21.61	21.65	21.53	22.00	2
	64-QAM	36	37	21.49	21.58	21.36	22.00	2
		75	0	21.60	21.71	21.48	22.00	2
		1	0	21.69	21.65	21.60	22.00	2
		1	36	21.54	21.53	21.42	22.00	2
		1	74	21.47	21.47	21.32	22.00	2
		36	0	20.66	20.68	20.58	21.00	3
	Frequency (MHz)			819	831.5	844	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			26740	26865	26990		
	10	QPSK	1	0	23.73	23.69	23.55	24.00
1			25	23.55	23.53	23.38	24.00	0
1			49	23.45	23.56	23.33	24.00	0
25			0	22.65	22.72	22.48	23.00	1
25			12	22.58	22.68	22.49	23.00	1
25			25	22.51	22.61	22.38	23.00	1
16-QAM		50	0	22.54	22.75	22.49	23.00	1
		1	0	22.63	22.65	22.60	23.00	1
		1	25	22.48	22.42	22.39	23.00	1
		1	49	22.41	22.51	22.26	23.00	1
		25	0	21.58	21.66	21.53	22.00	2
		25	12	21.57	21.57	21.45	22.00	2
64-QAM		25	25	21.44	21.56	21.26	22.00	2
		50	0	21.52	21.66	21.45	22.00	2
		1	0	21.65	21.61	21.50	22.00	2
		1	25	21.50	21.53	21.38	22.00	2
		1	49	21.40	21.38	21.27	22.00	2
		25	0	20.57	20.59	20.53	21.00	3
Frequency (MHz)			819	831.5	844	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26740	26865	26990			
10		QPSK	25	12	20.54	20.64	20.41	21.00
	25		25	20.44	20.54	20.33	21.00	3
	50		0	20.54	20.64	20.36	21.00	3

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LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			816.5	831.5	846.5			
Channel			26715	26865	27015			
5	QPSK	1	0	23.66	23.66	23.56	24.00	0
		1	12	23.55	23.53	23.43	24.00	0
		1	24	23.46	23.52	23.31	24.00	0
		12	0	22.59	22.71	22.57	23.00	1
		12	6	22.54	22.66	22.49	23.00	1
		12	13	22.54	22.56	22.41	23.00	1
	16-QAM	25	0	22.60	22.70	22.52	23.00	1
		1	0	22.58	22.67	22.57	23.00	1
		1	12	22.45	22.45	22.32	23.00	1
		1	24	22.37	22.51	22.27	23.00	1
		12	0	21.57	21.68	21.53	22.00	2
		12	6	21.58	21.64	21.49	22.00	2
	64-QAM	12	13	21.40	21.57	21.27	22.00	2
		25	0	21.50	21.62	21.42	22.00	2
		1	0	21.68	21.64	21.54	22.00	2
		1	12	21.45	21.45	21.33	22.00	2
		1	24	21.46	21.41	21.30	22.00	2
		12	0	20.65	20.66	20.57	21.00	3
		12	6	20.52	20.65	20.45	21.00	3
		12	13	20.36	20.51	20.32	21.00	3
Frequency (MHz)			815.5	831.5	847.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26705	26865	27025			
3	QPSK	1	0	23.66	23.69	23.60	24.00	0
		1	7	23.54	23.51	23.35	24.00	0
		1	14	23.45	23.57	23.36	24.00	0
		8	0	22.58	22.70	22.53	23.00	1
		8	4	22.57	22.61	22.50	23.00	1
		8	7	22.46	22.52	22.36	23.00	1
	16-QAM	15	0	22.63	22.73	22.50	23.00	1
		1	0	22.64	22.60	22.60	23.00	1
		1	7	22.39	22.46	22.38	23.00	1
		1	14	22.36	22.52	22.22	23.00	1
		8	0	21.59	21.62	21.50	22.00	2
		8	4	21.58	21.64	21.46	22.00	2
	64-QAM	8	7	21.40	21.50	21.35	22.00	2
		15	0	21.60	21.61	21.46	22.00	2
		1	0	21.65	21.55	21.55	22.00	2
		1	7	21.47	21.43	21.38	22.00	2
		1	14	21.40	21.38	21.31	22.00	2
		8	0	20.58	20.63	20.48	21.00	3
64-QAM	8	4	20.60	20.61	20.45	21.00	3	
	8	7	20.40	20.56	20.37	21.00	3	
	15	0	20.52	20.61	20.37	21.00	3	

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LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			814.7	831.5	848.3			
Channel			26697	26865	27033			
1.4	QPSK	1	0	23.66	23.73	23.59	24.00	0
		1	2	23.51	23.57	23.44	24.00	0
		1	5	23.42	23.49	23.32	24.00	0
		3	0	23.58	23.69	23.54	24.00	0
		3	2	23.55	23.68	23.44	24.00	0
		3	3	23.54	23.52	23.32	24.00	0
	16-QAM	6	0	22.54	22.73	22.50	23.00	1
		1	0	22.54	22.63	22.56	23.00	1
		1	2	22.45	22.44	22.37	23.00	1
		1	5	22.41	22.49	22.27	23.00	1
		3	0	22.61	22.61	22.56	23.00	1
		3	2	22.55	22.62	22.49	23.00	1
	64-QAM	3	3	22.47	22.51	22.33	23.00	1
		6	0	21.52	21.67	21.42	22.00	2
		1	0	21.59	21.58	21.58	22.00	2
		1	2	21.50	21.49	21.34	22.00	2
		1	5	21.43	21.45	21.30	22.00	2
		3	0	21.66	21.65	21.54	22.00	2
		3	2	21.51	21.59	21.47	22.00	2
		3	3	21.39	21.51	21.32	22.00	2
		6	0	20.54	20.61	20.36	21.00	3

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LTE Band 30								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2310	2310	2310			
Channel			27710	27710	27710			
10	QPSK	1	0	23.13			24.00	0
		1	25	23.11			24.00	0
		1	49	23.12			24.00	0
		25	0	22.27			23.00	1
		25	12	22.26			23.00	1
		25	25	22.20			23.00	1
	16-QAM	50	0	22.21			23.00	1
		1	0	22.09			23.00	1
		1	25	22.11			23.00	1
		1	49	22.06			23.00	1
		25	0	21.16			22.00	2
		25	12	21.25			22.00	2
	64-QAM	25	25	21.19			22.00	2
		50	0	21.12			22.00	2
		1	0	21.05			22.00	2
		1	25	21.02			22.00	2
		1	49	21.08			22.00	2
		25	0	20.17			21.00	3
	Frequency (MHz)			2307.5	2310	2312.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			27685	27710	27735		
	5	QPSK	1	0	23.10	23.10	23.05	24.00
1			12	23.04	23.09	23.06	24.00	0
1			24	23.12	23.06	23.05	24.00	0
12			0	22.20	22.17	22.10	23.00	1
12			6	22.16	22.17	22.24	23.00	1
12			13	22.27	22.25	22.17	23.00	1
16-QAM		25	0	22.18	22.14	22.15	23.00	1
		1	0	22.07	22.07	22.04	23.00	1
		1	12	22.02	22.05	22.03	23.00	1
		1	24	22.05	21.99	22.00	23.00	1
		12	0	21.08	21.07	21.12	22.00	2
		12	6	21.25	21.20	21.20	22.00	2
64-QAM		12	13	21.17	21.10	21.09	22.00	2
		25	0	21.08	21.11	21.05	22.00	2
		1	0	20.98	21.04	20.98	22.00	2
		1	12	20.93	20.96	21.00	22.00	2
		1	24	21.08	21.02	21.08	22.00	2
		12	0	20.08	20.12	20.17	21.00	3
Frequency (MHz)			2307.5	2310	2312.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			27685	27710	27735			
5		64-QAM	12	6	20.08	20.10	20.13	21.00
	12		13	20.25	20.20	20.25	21.00	3
	25		0	20.11	20.09	20.02	21.00	3
	25		0	20.11	20.09	20.02	21.00	3

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LTE Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1720	1745	1770			
Channel			132072	132322	132572			
20	QPSK	1	0	23.23	23.33	23.31	23.50	0
		1	50	23.20	23.30	23.30	23.50	0
		1	99	23.14	23.32	23.27	23.50	0
		50	0	22.18	22.33	22.33	22.50	1
		50	25	22.15	22.31	22.29	22.50	1
		50	50	22.16	22.28	22.28	22.50	1
	100	0	22.21	22.28	22.26	22.50	1	
	16-QAM	1	0	22.18	22.33	22.21	22.50	1
		1	50	22.21	22.27	22.26	22.50	1
		1	99	22.22	22.31	22.25	22.50	1
		50	0	21.22	21.35	21.24	21.50	2
		50	25	21.17	21.28	21.20	21.50	2
		50	50	21.17	21.36	21.33	21.50	2
	100	0	21.14	21.34	21.23	21.50	2	
	64-QAM	1	0	21.17	21.29	21.27	21.50	2
		1	50	21.18	21.33	21.26	21.50	2
		1	99	21.14	21.34	21.26	21.50	2
		50	0	20.14	20.35	20.19	20.50	3
		50	25	20.18	20.35	20.26	20.50	3
		50	50	20.16	20.35	20.24	20.50	3
	100	0	20.22	20.32	20.25	20.50	3	
Frequency (MHz)			1717.5	1745	1772.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			132047	132322	132597			
15	QPSK	1	0	23.18	23.27	23.26	23.50	0
		1	36	23.20	23.29	23.24	23.50	0
		1	74	23.17	23.31	23.21	23.50	0
		36	0	22.19	22.31	22.19	22.50	1
		36	18	22.16	22.31	22.20	22.50	1
		36	37	22.21	22.28	22.27	22.50	1
	75	0	22.19	22.28	22.26	22.50	1	
	16-QAM	1	0	22.19	22.33	22.27	22.50	1
		1	36	22.22	22.31	22.26	22.50	1
		1	74	22.19	22.29	22.25	22.50	1
		36	0	21.19	21.31	21.18	21.50	2
		36	18	21.14	21.29	21.25	21.50	2
		36	37	21.17	21.34	21.27	21.50	2
	75	0	21.14	21.34	21.22	21.50	2	
	64-QAM	1	0	21.14	21.31	21.25	21.50	2
		1	36	21.16	21.34	21.26	21.50	2
		1	74	21.15	21.27	21.22	21.50	2
		36	0	20.22	20.29	20.21	20.50	3
		36	18	20.14	20.35	20.27	20.50	3
		36	37	20.23	20.29	20.27	20.50	3
	75	0	20.18	20.30	20.21	20.50	3	

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LTE Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1745	1775		
Channel				132022	132322	132622		
10	QPSK	1	0	23.23	23.27	23.29	23.50	0
		1	25	23.21	23.30	23.22	23.50	0
		1	49	23.14	23.31	23.23	23.50	0
		25	0	22.23	22.35	22.21	22.50	1
		25	12	22.15	22.35	22.25	22.50	1
		25	25	22.15	22.33	22.30	22.50	1
	16-QAM	50	0	22.23	22.31	22.26	22.50	1
		1	0	22.15	22.35	22.27	22.50	1
		1	25	22.21	22.31	22.26	22.50	1
		1	49	22.18	22.34	22.22	22.50	1
		25	0	21.19	21.30	21.24	21.50	2
		25	12	21.17	21.33	21.22	21.50	2
	64-QAM	25	25	21.17	21.36	21.26	21.50	2
		50	0	21.16	21.31	21.26	21.50	2
		1	0	21.23	21.30	21.20	21.50	2
		1	25	21.15	21.28	21.25	21.50	2
		1	49	21.17	21.35	21.27	21.50	2
		25	0	20.20	20.29	20.23	20.50	3
		25	12	20.18	20.32	20.21	20.50	3
		25	25	20.22	20.35	20.24	20.50	3
Frequency (MHz)				1712.5	1745	1777.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				131997	132322	132647		
5	QPSK	1	0	23.19	23.33	23.30	23.50	0
		1	12	23.17	23.32	23.21	23.50	0
		1	24	23.18	23.28	23.22	23.50	0
		12	0	22.18	22.30	22.23	22.50	1
		12	6	22.22	22.29	22.27	22.50	1
		12	13	22.23	22.35	22.32	22.50	1
	16-QAM	25	0	22.20	22.33	22.22	22.50	1
		1	0	22.14	22.28	22.19	22.50	1
		1	12	22.23	22.33	22.19	22.50	1
		1	24	22.22	22.35	22.25	22.50	1
		12	0	21.18	21.30	21.18	21.50	2
		12	6	21.17	21.34	21.19	21.50	2
	64-QAM	12	13	21.14	21.32	21.28	21.50	2
		25	0	21.18	21.28	21.20	21.50	2
		1	0	21.17	21.29	21.27	21.50	2
		1	12	21.17	21.33	21.20	21.50	2
		1	24	21.14	21.31	21.20	21.50	2
		12	0	20.17	20.27	20.24	20.50	3
		12	6	20.19	20.27	20.26	20.50	3
		12	13	20.16	20.34	20.24	20.50	3
25	0	20.21	20.31	20.27	20.50	3		

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LTE Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1711.5	1745	1778.5			
Channel				131987	132322	132657			
3	QPSK	1	0	23.18	23.32	23.23	23.50	0	
		1	7	23.20	23.30	23.21	23.50	0	
		1	14	23.23	23.30	23.20	23.50	0	
		8	0	22.23	22.28	22.20	22.50	1	
		8	4	22.17	22.32	22.19	22.50	1	
		8	7	22.23	22.28	22.25	22.50	1	
	16-QAM	15	0	22.15	22.28	22.22	22.50	1	
		1	0	22.16	22.27	22.27	22.50	1	
		1	7	22.15	22.34	22.18	22.50	1	
		1	14	22.14	22.27	22.25	22.50	1	
		8	0	21.20	21.34	21.20	21.50	2	
		8	4	21.18	21.31	21.18	21.50	2	
	64-QAM	8	7	21.16	21.30	21.27	21.50	2	
		15	0	21.21	21.32	21.27	21.50	2	
		1	0	21.21	21.29	21.20	21.50	2	
		1	7	21.22	21.33	21.21	21.50	2	
		1	14	21.17	21.27	21.18	21.50	2	
		8	0	20.22	20.27	20.25	20.50	3	
	Frequency (MHz)				1710.7	1745	1779.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				131979	132322	132665		
	1.4	QPSK	1	0	23.22	23.28	23.23	23.50	0
1			2	23.18	23.36	23.22	23.50	0	
1			5	23.21	23.33	23.23	23.50	0	
3			0	23.21	23.32	23.22	23.50	0	
3			2	23.21	23.33	23.28	23.50	0	
3			3	23.14	23.35	23.31	23.50	0	
16-QAM		6	0	22.19	22.27	22.19	22.50	1	
		1	0	22.15	22.36	22.25	22.50	1	
		1	2	22.19	22.35	22.25	22.50	1	
		1	5	22.22	22.27	22.25	22.50	1	
		3	0	22.23	22.36	22.20	22.50	1	
		3	2	22.15	22.29	22.20	22.50	1	
64-QAM		3	3	22.20	22.36	22.24	22.50	1	
		6	0	21.21	21.35	21.26	21.50	2	
		1	0	21.19	21.31	21.22	21.50	2	
		1	2	21.16	21.27	21.18	21.50	2	
		1	5	21.20	21.33	21.23	21.50	2	
		3	0	21.21	21.29	21.20	21.50	2	
Frequency (MHz)				1710.7	1745	1779.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				131979	132322	132665			
1.4	64-QAM	3	2	21.14	21.32	21.20	21.50	2	
		3	3	21.16	21.34	21.23	21.50	2	
		6	0	20.22	20.32	20.25	20.50	3	
		1	0	20.22	20.32	20.18	20.50	3	

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**LTE TDD Band 38 / Band 41 power table:**

LTE Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2580	2595	2610			
Channel			37850	38000	38150			
20	QPSK	1	0	23.26	23.25	23.34	24.00	0
		1	50	23.13	23.11	23.29	24.00	0
		1	99	23.12	23.12	23.20	24.00	0
		50	0	22.24	22.25	22.35	23.00	1
		50	25	22.22	22.19	22.34	23.00	1
		50	50	22.24	22.15	22.33	23.00	1
	100	0	22.21	22.24	22.34	23.00	1	
	16-QAM	1	0	22.16	22.15	22.24	23.00	1
		1	50	22.13	22.12	22.28	23.00	1
		1	99	22.16	22.10	22.20	23.00	1
		50	0	21.19	21.13	21.33	22.00	2
		50	25	21.24	21.22	21.31	22.00	2
		50	50	21.14	21.16	21.31	22.00	2
	100	0	21.16	21.24	21.32	22.00	2	
	64-QAM	1	0	21.26	21.18	21.26	22.00	2
		1	50	21.10	21.17	21.29	22.00	2
		1	99	21.12	21.15	21.20	22.00	2
		50	0	20.14	20.19	20.33	21.00	3
		50	25	20.22	20.17	20.34	21.00	3
		50	50	20.17	20.15	20.24	21.00	3
	100	0	20.21	20.15	20.29	21.00	3	
Frequency (MHz)				2577.5	2595	2612.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				37825	38000	38175		
15	QPSK	1	0	23.17	23.17	23.27	24.00	0
		1	36	23.17	23.12	23.21	24.00	0
		1	74	23.15	23.19	23.16	24.00	0
		36	0	22.14	22.14	22.26	23.00	1
		36	18	22.22	22.15	22.31	23.00	1
		36	37	22.17	22.15	22.29	23.00	1
	75	0	22.17	22.14	22.26	23.00	1	
	16-QAM	1	0	22.18	22.12	22.15	23.00	1
		1	36	22.12	22.14	22.21	23.00	1
		1	74	22.11	22.18	22.11	23.00	1
		36	0	21.13	21.13	21.27	22.00	2
		36	18	21.18	21.22	21.26	22.00	2
		36	37	21.18	21.10	21.23	22.00	2
	75	0	21.17	21.16	21.24	22.00	2	
	64-QAM	1	0	21.23	21.18	21.20	22.00	2
		1	36	21.10	21.13	21.21	22.00	2
		1	74	21.12	21.13	21.18	22.00	2
		36	0	20.13	20.19	20.25	21.00	3
36		18	20.22	20.16	20.27	21.00	3	
36		37	20.11	20.17	20.14	21.00	3	
75	0	20.17	20.13	20.22	21.00	3		

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LTE Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2575	2595	2615			
Channel			37800	38000	38200			
10	QPSK	1	0	23.25	23.15	23.33	24.00	0
		1	25	23.11	23.15	23.27	24.00	0
		1	49	23.17	23.19	23.12	24.00	0
		25	0	22.13	22.13	22.30	23.00	1
		25	12	22.16	22.16	22.34	23.00	1
		25	25	22.24	22.15	22.31	23.00	1
	16-QAM	50	0	22.19	22.21	22.26	23.00	1
		1	0	22.14	22.10	22.16	23.00	1
		1	25	22.13	22.18	22.22	23.00	1
		1	49	22.19	22.17	22.11	23.00	1
		25	0	21.12	21.17	21.29	22.00	2
		25	12	21.16	21.16	21.23	22.00	2
	64-QAM	25	25	21.12	21.14	21.23	22.00	2
		50	0	21.11	21.24	21.32	22.00	2
		1	0	21.23	21.18	21.21	22.00	2
		1	25	21.10	21.19	21.23	22.00	2
		1	49	21.15	21.15	21.19	22.00	2
		25	0	20.14	20.16	20.32	21.00	3
		25	12	20.12	20.12	20.28	21.00	3
		25	25	20.18	20.11	20.17	21.00	3
Frequency (MHz)			2572.5	2595	2617.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			37775	38000	38225			
5	QPSK	1	0	23.24	23.21	23.29	24.00	0
		1	12	23.10	23.16	23.25	24.00	0
		1	24	23.12	23.16	23.10	24.00	0
		12	0	22.18	22.13	22.32	23.00	1
		12	6	22.19	22.23	22.31	23.00	1
		12	13	22.17	22.13	22.26	23.00	1
	16-QAM	25	0	22.17	22.15	22.34	23.00	1
		1	0	22.14	22.18	22.20	23.00	1
		1	12	22.18	22.17	22.28	23.00	1
		1	24	22.11	22.10	22.17	23.00	1
		12	0	21.13	21.13	21.30	22.00	2
		12	6	21.18	21.16	21.21	22.00	2
	64-QAM	12	13	21.13	21.12	21.29	22.00	2
		25	0	21.18	21.24	21.32	22.00	2
		1	0	21.16	21.13	21.25	22.00	2
		1	12	21.12	21.18	21.20	22.00	2
		1	24	21.11	21.17	21.14	22.00	2
		12	0	20.16	20.17	20.23	21.00	3
Frequency (MHz)			2572.5	2595	2617.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			37775	38000	38225			
5	QPSK	12	6	20.13	20.11	20.29	21.00	3
		12	13	20.11	20.19	20.22	21.00	3
		25	0	20.17	20.12	20.20	21.00	3

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LTE Band 41										
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2506	2549.5	2593	2636.5	2680			
Channel			39750	40185	40620	41055	41490			
20	QPSK	1	0	23.26	23.47	23.34	23.31	23.34	25.20	0
		1	50	23.21	23.44	23.25	23.22	23.24	25.20	0
		1	99	23.24	23.41	23.27	23.25	23.29	25.20	0
		50	0	22.29	22.51	22.36	22.34	22.34	24.20	1
		50	25	22.23	22.50	22.35	22.31	22.29	24.20	1
		50	50	22.20	22.49	22.34	22.27	22.31	24.20	1
	100	0	22.25	22.53	22.30	22.32	22.38	24.20	1	
	16-QAM	1	0	22.28	22.44	22.34	22.24	22.27	24.20	1
		1	50	22.29	22.43	22.29	22.23	22.23	24.20	1
		1	99	22.28	22.37	22.21	22.25	22.26	24.20	1
		50	0	21.28	21.48	21.26	21.34	21.24	23.20	2
		50	25	21.22	21.49	21.33	21.28	21.25	23.20	2
		50	50	21.27	21.43	21.34	21.24	21.25	23.20	2
	64-QAM	100	0	21.25	21.49	21.28	21.31	21.35	23.20	2
		1	0	21.22	21.43	21.30	21.22	21.24	23.20	2
		1	50	21.22	21.41	21.29	21.28	21.27	23.20	2
		1	99	21.29	21.34	21.26	21.24	21.23	23.20	2
		50	0	20.25	20.47	20.35	20.29	20.31	22.20	3
		50	25	20.21	20.46	20.32	20.28	20.27	22.20	3
	50	50	20.20	20.45	20.32	20.22	20.22	22.20	3	
	100	0	20.28	20.47	20.26	20.24	20.36	22.20	3	
	Frequency (MHz)			2503.5	2548.25	2593	2637.75	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			39725	40172.5	40620	41067.5	41515		
	15	QPSK	1	0	23.24	23.41	23.33	23.26	23.32	25.20
1			36	23.22	23.40	23.25	23.27	23.26	25.20	0
1			74	23.24	23.35	23.23	23.25	23.24	25.20	0
36			0	22.24	22.44	22.30	22.29	22.30	24.20	1
36			18	22.28	22.44	22.34	22.24	22.27	24.20	1
36			37	22.23	22.42	22.26	22.24	22.21	24.20	1
75		0	22.25	22.44	22.21	22.28	22.28	24.20	1	
16-QAM		1	0	22.27	22.36	22.27	22.26	22.25	24.20	1
		1	36	22.22	22.36	22.29	22.24	22.26	24.20	1
		1	74	22.24	22.31	22.21	22.20	22.29	24.20	1
		36	0	21.24	21.39	21.25	21.28	21.26	23.20	2
		36	18	21.22	21.45	21.26	21.26	21.25	23.20	2
		36	37	21.23	21.34	21.32	21.24	21.22	23.20	2
64-QAM		75	0	21.26	21.42	21.28	21.21	21.32	23.20	2
		1	0	21.23	21.41	21.24	21.25	21.25	23.20	2
		1	36	21.25	21.35	21.26	21.28	21.20	23.20	2
		1	74	21.23	21.29	21.20	21.24	21.20	23.20	2
		36	0	20.29	20.40	20.31	20.22	20.23	22.20	3
		36	18	20.24	20.43	20.26	20.20	20.26	22.20	3
36		37	20.22	20.44	20.28	20.23	20.24	22.20	3	
75		0	20.24	20.46	20.29	20.25	20.36	22.20	3	

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2501	2547	2593	2639	2685			
Channel			39700	40160	40620	41080	41540			
10	QPSK	1	0	23.24	23.39	23.29	23.23	23.30	25.20	0
		1	25	23.22	23.34	23.29	23.22	23.22	25.20	0
		1	49	23.29	23.39	23.27	23.22	23.25	25.20	0
		25	0	22.23	22.45	22.30	22.34	22.24	24.20	1
		25	12	22.29	22.49	22.36	22.27	22.23	24.20	1
		25	25	22.26	22.49	22.28	22.21	22.29	24.20	1
	16-QAM	50	0	22.24	22.45	22.26	22.31	22.30	24.20	1
		1	0	22.25	22.36	22.25	22.25	22.28	24.20	1
		1	25	22.26	22.40	22.29	22.29	22.22	24.20	1
		1	49	22.28	22.36	22.20	22.21	22.23	24.20	1
		25	0	21.26	21.41	21.20	21.30	21.20	23.20	2
		25	12	21.29	21.43	21.26	21.29	21.20	23.20	2
	64-QAM	25	25	21.21	21.39	21.33	21.29	21.22	23.20	2
		50	0	21.25	21.39	21.28	21.29	21.34	23.20	2
		1	0	21.20	21.43	21.21	21.25	21.27	23.20	2
		1	25	21.23	21.32	21.27	21.25	21.28	23.20	2
		1	49	21.25	21.30	21.26	21.24	21.29	23.20	2
		25	0	20.25	20.37	20.32	20.20	20.30	22.20	3
		25	12	20.29	20.39	20.30	20.21	20.26	22.20	3
		25	25	20.25	20.36	20.32	20.20	20.22	22.20	3
Frequency (MHz)			2498.5	2545.75	2593	2640.25	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			39675	40147.5	40620	41092.5	41565			
5	QPSK	1	0	23.24	23.45	23.31	23.29	23.25	25.20	0
		1	12	23.28	23.35	23.27	23.26	23.25	25.20	0
		1	24	23.25	23.40	23.28	23.25	23.25	25.20	0
		12	0	22.20	22.43	22.36	22.25	22.28	24.20	1
		12	6	22.28	22.42	22.28	22.22	22.25	24.20	1
		12	13	22.23	22.48	22.34	22.24	22.23	24.20	1
	16-QAM	25	0	22.29	22.47	22.23	22.23	22.29	24.20	1
		1	0	22.28	22.35	22.27	22.20	22.26	24.20	1
		1	12	22.25	22.39	22.29	22.20	22.24	24.20	1
		1	24	22.28	22.31	22.24	22.25	22.20	24.20	1
		12	0	21.23	21.40	21.23	21.34	21.28	23.20	2
		12	6	21.21	21.40	21.23	21.28	21.29	23.20	2
	64-QAM	12	13	21.24	21.34	21.29	21.26	21.22	23.20	2
		25	0	21.22	21.43	21.24	21.31	21.28	23.20	2
		1	0	21.27	21.40	21.22	21.29	21.22	23.20	2
		1	12	21.29	21.41	21.27	21.23	21.25	23.20	2
		1	24	21.21	21.34	21.24	21.26	21.29	23.20	2
		12	0	20.23	20.45	20.30	20.22	20.21	22.20	3
		12	6	20.21	20.40	20.30	20.23	20.23	22.20	3
		12	13	20.28	20.35	20.30	20.22	20.27	22.20	3
Frequency (MHz)			2498.5	2545.75	2593	2640.25	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			39675	40147.5	40620	41092.5	41565			
5	QPSK	1	0	23.24	23.45	23.31	23.29	23.25	25.20	0
		1	12	23.28	23.35	23.27	23.26	23.25	25.20	0
		1	24	23.25	23.40	23.28	23.25	23.25	25.20	0
		12	0	22.20	22.43	22.36	22.25	22.28	24.20	1
		12	6	22.28	22.42	22.28	22.22	22.25	24.20	1
		12	13	22.23	22.48	22.34	22.24	22.23	24.20	1
	16-QAM	25	0	22.29	22.47	22.23	22.23	22.29	24.20	1
		1	0	22.28	22.35	22.27	22.20	22.26	24.20	1
		1	12	22.25	22.39	22.29	22.20	22.24	24.20	1
		1	24	22.28	22.31	22.24	22.25	22.20	24.20	1
		12	0	21.23	21.40	21.23	21.34	21.28	23.20	2
		12	6	21.21	21.40	21.23	21.28	21.29	23.20	2
	64-QAM	12	13	21.24	21.34	21.29	21.26	21.22	23.20	2
		25	0	21.22	21.43	21.24	21.31	21.28	23.20	2
1		0	21.27	21.40	21.22	21.29	21.22	23.20	2	
1		12	21.29	21.41	21.27	21.23	21.25	23.20	2	
1		24	21.21	21.34	21.24	21.26	21.29	23.20	2	
12		0	20.23	20.45	20.30	20.22	20.21	22.20	3	
12		6	20.21	20.40	20.30	20.23	20.23	22.20	3	
12		13	20.28	20.35	20.30	20.22	20.27	22.20	3	

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LTE Band 41_HPUE										
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2506	2549.5	2593	2636.5	2680			
Channel			39750	40185	40620	41055	41490			
20	QPSK	1	0	25.69	25.87	25.73	25.90	25.80	27.20	0
		1	50	25.55	25.69	25.52	25.79	25.68	27.20	0
		1	99	25.59	25.77	25.66	25.86	25.68	27.20	0
		50	0	24.87	25.08	24.95	25.17	25.06	26.20	1
		50	25	24.76	24.88	24.77	25.00	24.82	26.20	1
		50	50	24.73	24.96	24.81	25.03	24.87	26.20	1
	100	0	24.85	24.95	24.90	25.07	24.95	26.20	1	
	16-QAM	1	0	24.95	25.23	25.06	25.26	25.06	26.20	1
		1	50	25.09	25.27	25.12	25.32	25.13	26.20	1
		1	99	24.97	25.11	24.94	25.20	25.05	26.20	1
		50	0	23.90	24.02	23.88	24.14	24.04	25.20	2
		50	25	23.80	24.00	23.92	24.09	23.92	25.20	2
		50	50	23.83	24.00	23.94	24.12	23.97	25.20	2
	100	0	23.80	24.02	23.89	24.09	23.94	25.20	2	
	64-QAM	1	0	24.66	24.84	24.66	24.89	24.76	25.20	2
		1	50	24.66	24.84	24.66	24.82	24.78	25.20	2
		1	99	24.75	24.99	24.77	25.02	24.92	25.20	2
		50	0	23.75	24.02	23.86	24.06	23.87	24.20	3
		50	25	23.74	23.96	23.77	24.00	23.87	24.20	3
		50	50	23.78	23.99	23.82	24.02	23.89	24.20	3
	100	0	23.81	24.05	23.84	24.10	23.91	24.20	3	
	Frequency (MHz)			2503.5	2548.25	2593	2637.75	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			39725	40172.5	40620	41067.5	41515		
	15	QPSK	1	0	25.66	25.79	25.72	25.82	25.73	27.20
1			36	25.55	25.62	25.42	25.72	25.61	27.20	0
1			74	25.57	25.68	25.63	25.77	25.62	27.20	0
36			0	24.87	25.04	24.89	25.12	25.05	26.20	1
36			18	24.72	24.86	24.69	24.97	24.79	26.20	1
36			37	24.72	24.93	24.71	24.94	24.83	26.20	1
75		0	24.75	24.87	24.90	24.98	24.95	26.20	1	
16-QAM		1	0	24.90	25.21	24.99	25.23	25.02	26.20	1
		1	36	25.01	25.26	25.05	25.27	25.06	26.20	1
		1	74	24.90	25.05	24.85	25.16	25.00	26.20	1
		36	0	23.83	24.02	23.85	24.05	24.02	25.20	2
		36	18	23.77	24.00	23.85	24.07	23.92	25.20	2
		36	37	23.83	23.99	23.85	24.12	23.95	25.20	2
75		0	23.74	23.92	23.81	24.07	23.93	25.20	2	
64-QAM		1	0	24.60	24.82	24.56	24.89	24.68	25.20	2
		1	36	24.58	24.82	24.65	24.92	24.70	25.20	2
		1	74	24.70	24.94	24.68	24.99	24.89	25.20	2
		36	0	23.72	24.00	23.84	23.99	23.83	24.20	3
		36	18	23.73	23.88	23.71	23.90	23.85	24.20	3
		36	37	23.74	23.92	23.72	23.98	23.88	24.20	3
75		0	23.80	24.04	23.77	24.06	23.85	24.20	3	

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LTE Band 41_HPUE										
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2501	2547	2593	2639	2685			
Channel			39700	40160	40620	41080	41540			
10	QPSK	1	0	25.64	25.87	25.72	25.81	25.74	27.20	0
		1	25	25.52	25.61	25.44	25.69	25.63	27.20	0
		1	49	25.51	25.67	25.62	25.78	25.64	27.20	0
		25	0	24.79	25.04	24.92	25.08	24.99	26.20	1
		25	12	24.74	24.80	24.68	24.92	24.72	26.20	1
		25	25	24.70	24.95	24.73	24.95	24.86	26.20	1
	16-QAM	50	0	24.82	24.86	24.89	25.01	24.93	26.20	1
		1	0	24.93	25.18	25.06	25.20	25.04	26.20	1
		1	25	25.03	25.19	25.09	25.24	25.03	26.20	1
		1	49	24.96	25.10	24.88	25.15	24.98	26.20	1
		25	0	23.86	24.02	23.82	24.14	23.95	25.20	2
		25	12	23.74	23.98	23.85	24.00	23.89	25.20	2
	64-QAM	25	25	23.79	23.94	23.91	24.04	23.94	25.20	2
		50	0	23.80	23.98	23.88	24.08	23.94	25.20	2
		1	0	24.61	24.75	24.56	24.85	24.75	25.20	2
		1	25	24.56	24.80	24.61	24.92	24.73	25.20	2
		1	49	24.69	24.98	24.71	25.01	24.84	25.20	2
		25	0	23.65	24.01	23.81	24.05	23.79	24.20	3
		25	12	23.73	23.93	23.72	23.91	23.77	24.20	3
		25	25	23.73	23.91	23.72	23.92	23.83	24.20	3
Frequency (MHz)			2498.5	2545.75	2593	2640.25	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			39675	40147.5	40620	41092.5	41565			
5	QPSK	1	0	25.62	25.86	25.73	25.80	25.73	27.20	0
		1	12	25.54	25.69	25.43	25.75	25.65	27.20	0
		1	24	25.53	25.76	25.60	25.81	25.63	27.20	0
		12	0	24.87	24.98	24.93	25.17	25.05	26.20	1
		12	6	24.67	24.84	24.76	24.94	24.73	26.20	1
		12	13	24.66	24.88	24.72	24.99	24.87	26.20	1
	16-QAM	25	0	24.84	24.92	24.83	25.02	24.89	26.20	1
		1	0	24.85	25.16	24.97	25.18	24.99	26.20	1
		1	12	25.04	25.26	25.09	25.28	25.13	26.20	1
		1	24	24.90	25.06	24.85	25.10	24.95	26.20	1
		12	0	23.81	23.99	23.86	24.06	23.97	25.20	2
		12	6	23.74	23.90	23.88	24.09	23.84	25.20	2
	64-QAM	12	13	23.74	23.92	23.86	24.07	23.94	25.20	2
		25	0	23.71	23.94	23.85	24.00	23.88	25.20	2
		1	0	24.60	24.74	24.63	24.81	24.68	25.20	2
		1	12	24.62	24.74	24.62	24.90	24.68	25.20	2
		1	24	24.72	24.96	24.72	25.00	24.90	25.20	2
		12	0	23.71	23.95	23.83	24.04	23.82	24.20	3
		12	6	23.64	23.96	23.76	23.94	23.81	24.20	3
		12	13	23.69	23.98	23.75	23.93	23.89	24.20	3
25	0	23.74	23.98	23.79	24.02	23.81	24.20	3		

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### 1.3.4 Reduced power-Tablet mode

#### LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 14 / Band 17 / Band 25 / Band 26 / Band 30 / Band 66 power table:

LTE Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1860	1880	1900			
Channel			18700	18900	19100			
20	QPSK	1	0	13.62	13.60	13.55	14.00	0
		1	50	13.58	13.57	13.54	14.00	0
		1	99	13.52	13.57	13.56	14.00	0
		50	0	12.56	12.54	12.52	13.00	1
		50	25	12.51	12.49	12.50	13.00	1
		50	50	12.52	12.45	12.47	13.00	1
	16-QAM	100	0	12.58	12.46	12.52	13.00	1
		1	0	12.55	12.48	12.51	13.00	1
		1	50	12.52	12.57	12.49	13.00	1
		1	99	12.46	12.47	12.45	13.00	1
		50	0	11.48	11.52	11.57	12.00	2
		50	25	11.61	11.54	11.48	12.00	2
	64-QAM	50	50	11.47	11.52	11.50	12.00	2
		100	0	11.54	11.57	11.52	12.00	2
		1	0	11.51	11.58	11.42	12.00	2
		1	50	11.56	11.48	11.45	12.00	2
		1	99	11.45	11.52	11.60	12.00	2
		50	0	10.49	10.53	10.52	11.00	3
15	QPSK	50	25	10.50	10.46	10.47	11.00	3
		50	50	10.58	10.53	10.48	11.00	3
		100	0	10.52	10.52	10.54	11.00	3
		1	0	13.61	13.57	13.47	14.00	0
		1	36	13.53	13.47	13.46	14.00	0
		1	74	13.52	13.54	13.56	14.00	0
	16-QAM	36	0	12.49	12.52	12.44	13.00	1
		36	18	12.56	12.53	12.50	13.00	1
		36	37	12.50	12.48	12.54	13.00	1
		75	0	12.52	12.54	12.52	13.00	1
		1	0	12.47	12.47	12.47	13.00	1
		1	36	12.60	12.58	12.50	13.00	1
	64-QAM	1	74	12.55	12.54	12.42	13.00	1
		36	0	11.44	11.49	11.56	12.00	2
		36	18	11.59	11.49	11.49	12.00	2
		36	37	11.43	11.49	11.45	12.00	2
		75	0	11.59	11.56	11.46	12.00	2
		1	0	11.56	11.54	11.49	12.00	2
64-QAM	1	36	11.58	11.48	11.44	12.00	2	
	1	74	11.54	11.45	11.60	12.00	2	
	36	0	10.52	10.61	10.55	11.00	3	
	36	18	10.53	10.52	10.45	11.00	3	
	36	37	10.50	10.53	10.44	11.00	3	
	75	0	10.51	10.61	10.48	11.00	3	

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LTE Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1880	1905			
Channel			18650	18900	19150			
10	QPSK	1	0	13.53	13.54	13.48	14.00	0
		1	25	13.53	13.57	13.49	14.00	0
		1	49	13.43	13.52	13.46	14.00	0
		25	0	12.50	12.52	12.48	13.00	1
		25	12	12.52	12.48	12.56	13.00	1
		25	25	12.55	12.47	12.55	13.00	1
	16-QAM	50	0	12.54	12.50	12.54	13.00	1
		1	0	12.49	12.47	12.46	13.00	1
		1	25	12.56	12.53	12.56	13.00	1
		1	49	12.51	12.56	12.50	13.00	1
		25	0	11.49	11.50	11.54	12.00	2
		25	12	11.60	11.55	11.48	12.00	2
	64-QAM	25	25	11.51	11.42	11.50	12.00	2
		50	0	11.61	11.61	11.48	12.00	2
		1	0	11.59	11.54	11.47	12.00	2
		1	25	11.56	11.50	11.51	12.00	2
		1	49	11.47	11.51	11.58	12.00	2
		25	0	10.51	10.54	10.53	11.00	3
		25	12	10.53	10.53	10.52	11.00	3
		25	25	10.51	10.59	10.49	11.00	3
Frequency (MHz)			1852.5	1880	1907.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			18625	18900	19175			
5	QPSK	1	0	13.61	13.60	13.54	14.00	0
		1	12	13.48	13.51	13.51	14.00	0
		1	24	13.52	13.54	13.52	14.00	0
		12	0	12.47	12.43	12.45	13.00	1
		12	6	12.51	12.44	12.47	13.00	1
		12	13	12.46	12.47	12.51	13.00	1
	16-QAM	25	0	12.52	12.54	12.59	13.00	1
		1	0	12.56	12.56	12.53	13.00	1
		1	12	12.61	12.49	12.51	13.00	1
		1	24	12.52	12.56	12.42	13.00	1
		12	0	11.45	11.54	11.52	12.00	2
		12	6	11.56	11.49	11.51	12.00	2
	64-QAM	12	13	11.49	11.51	11.44	12.00	2
		25	0	11.57	11.60	11.42	12.00	2
		1	0	11.61	11.55	11.43	12.00	2
		1	12	11.55	11.53	11.50	12.00	2
		1	24	11.54	11.52	11.57	12.00	2
		12	0	10.57	10.62	10.53	11.00	3
64-QAM	12	6	10.46	10.50	10.53	11.00	3	
	12	13	10.53	10.58	10.51	11.00	3	
	25	0	10.49	10.61	10.47	11.00	3	

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LTE Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1851.5	1880	1908.5				
Channel			18615	18900	19185				
3	QPSK	1	0	13.56	13.59	13.48	14.00	0	
		1	7	13.56	13.56	13.47	14.00	0	
		1	14	13.45	13.57	13.54	14.00	0	
		8	0	12.49	12.53	12.47	13.00	1	
		8	4	12.51	12.54	12.48	13.00	1	
		8	7	12.51	12.48	12.51	13.00	1	
	16-QAM	15	0	12.55	12.47	12.57	13.00	1	
		1	0	12.54	12.50	12.46	13.00	1	
		1	7	12.61	12.49	12.49	13.00	1	
		1	14	12.46	12.57	12.49	13.00	1	
		8	0	11.44	11.48	11.52	12.00	2	
		8	4	11.55	11.56	11.49	12.00	2	
	64-QAM	8	7	11.47	11.47	11.50	12.00	2	
		15	0	11.57	11.56	11.45	12.00	2	
		1	0	11.53	11.52	11.50	12.00	2	
		1	7	11.58	11.47	11.52	12.00	2	
		1	14	11.53	11.49	11.52	12.00	2	
		8	0	10.48	10.61	10.56	11.00	3	
	Frequency (MHz)				1850.7	1880	1909.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				18607	18900	19193		
	1.4	QPSK	1	0	13.53	13.61	13.51		
1			2	13.51	13.50	13.48	14.00	0	
1			5	13.42	13.48	13.50	14.00	0	
3			0	12.54	12.43	12.45	14.00	0	
3			2	12.47	12.47	12.47	14.00	0	
3			3	12.45	12.50	12.47	14.00	0	
16-QAM		6	0	12.57	12.50	12.56	13.00	1	
		1	0	12.52	12.50	12.49	13.00	1	
		1	2	12.58	12.48	12.53	13.00	1	
		1	5	12.52	12.57	12.43	13.00	1	
		3	0	11.50	11.53	11.59	13.00	1	
		3	2	11.52	11.53	11.50	13.00	1	
64-QAM		3	3	11.45	11.46	11.47	13.00	1	
		6	0	11.55	11.59	11.49	12.00	2	
		1	0	11.59	11.55	11.47	12.00	2	
		1	2	11.59	11.47	11.50	12.00	2	
		1	5	11.47	11.47	11.62	12.00	2	
		3	0	10.50	10.54	10.52	12.00	2	
Frequency (MHz)				1850.7	1880	1909.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				18607	18900	19193			
1.4		QPSK	3	2	10.45	10.52			10.43
	3		3	10.57	10.57	10.49	12.00	2	
	6		0	10.53	10.56	10.56	11.00	3	

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LTE Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1720	1732.5	1745			
Channel				20050	20175	20300			
20	QPSK	1	0	14.39	14.35	14.42	14.50	0	
		1	50	14.33	14.33	14.33	14.50	0	
		1	99	14.36	14.33	14.40	14.50	0	
		50	0	13.40	13.36	13.34	13.50	1	
		50	25	13.34	13.29	13.33	13.50	1	
		50	50	13.37	13.33	13.33	13.50	1	
	100	0	13.29	13.30	13.34	13.50	1		
	16-QAM	1	0	13.35	13.32	13.40	13.50	1	
		1	50	13.32	13.38	13.33	13.50	1	
		1	99	13.25	13.33	13.22	13.50	1	
		50	0	12.40	12.39	12.35	12.50	2	
		50	25	12.25	12.33	12.39	12.50	2	
		50	50	12.30	12.29	12.30	12.50	2	
	100	0	12.32	12.33	12.28	12.50	2		
	64-QAM	1	0	12.27	12.37	12.25	12.50	2	
		1	50	12.33	12.28	12.28	12.50	2	
		1	99	12.38	12.33	12.26	12.50	2	
		50	0	11.24	11.24	11.36	11.50	3	
		50	25	11.36	11.37	11.34	11.50	3	
		50	50	11.28	11.25	11.37	11.50	3	
	100	0	11.38	11.39	11.33	11.50	3		
	Frequency (MHz)				1717.5	1732.5	1747.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				20025	20175	20325		
	15	QPSK	1	0	14.38	14.35	14.39	14.50	0
1			36	14.23	14.31	14.26	14.50	0	
1			74	14.26	14.33	14.35	14.50	0	
36			0	13.40	13.32	13.33	13.50	1	
36			18	13.26	13.32	13.36	13.50	1	
36			37	13.28	13.32	13.29	13.50	1	
75		0	13.35	13.26	13.27	13.50	1		
16-QAM		1	0	13.35	13.28	13.38	13.50	1	
		1	36	13.34	13.34	13.35	13.50	1	
		1	74	13.22	13.30	13.24	13.50	1	
		36	0	12.34	12.35	12.35	12.50	2	
		36	18	12.35	12.40	12.38	12.50	2	
		36	37	12.32	12.35	12.23	12.50	2	
75		0	12.33	12.32	12.31	12.50	2		
64-QAM		1	0	12.31	12.33	12.30	12.50	2	
		1	36	12.30	12.37	12.37	12.50	2	
		1	74	12.36	12.32	12.26	12.50	2	
		36	0	11.23	11.27	11.37	11.50	3	
		36	18	11.29	11.35	11.33	11.50	3	
		36	37	11.31	11.29	11.34	11.50	3	
75		0	11.38	11.31	11.41	11.50	3		

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LTE Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1732.5	1750		
Channel				20000	20175	20350		
10	QPSK	1	0	14.38	14.29	14.35	14.50	0
		1	25	14.30	14.23	14.33	14.50	0
		1	49	14.35	14.30	14.31	14.50	0
		25	0	13.31	13.28	13.38	13.50	1
		25	12	13.30	13.23	13.36	13.50	1
		25	25	13.30	13.29	13.31	13.50	1
	16-QAM	1	0	13.28	13.27	13.33	13.50	1
		1	0	13.37	13.24	13.40	13.50	1
		1	25	13.34	13.37	13.28	13.50	1
		1	49	13.30	13.36	13.31	13.50	1
		25	0	12.31	12.41	12.35	12.50	2
		25	12	12.27	12.39	12.38	12.50	2
	64-QAM	25	25	12.25	12.37	12.22	12.50	2
		50	0	12.31	12.32	12.30	12.50	2
		1	0	12.29	12.32	12.34	12.50	2
		1	25	12.35	12.34	12.28	12.50	2
		1	49	12.41	12.28	12.34	12.50	2
		25	0	11.27	11.26	11.37	11.50	3
		25	12	11.36	11.38	11.32	11.50	3
		25	25	11.28	11.33	11.35	11.50	3
Frequency (MHz)				1712.5	1732.5	1752.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				19975	20175	20375		
5	QPSK	1	0	14.33	14.29	14.35	14.50	0
		1	12	14.27	14.33	14.26	14.50	0
		1	24	14.31	14.30	14.37	14.50	0
		12	0	13.38	13.27	13.38	13.50	1
		12	6	13.24	13.30	13.32	13.50	1
		12	13	13.34	13.38	13.24	13.50	1
	16-QAM	25	0	13.25	13.31	13.32	13.50	1
		1	0	13.36	13.29	13.36	13.50	1
		1	12	13.29	13.30	13.38	13.50	1
		1	24	13.26	13.29	13.25	13.50	1
		12	0	12.32	12.33	12.29	12.50	2
		12	6	12.34	12.40	12.36	12.50	2
	64-QAM	12	13	12.28	12.37	12.26	12.50	2
		25	0	12.37	12.32	12.33	12.50	2
		1	0	12.29	12.36	12.28	12.50	2
		1	12	12.30	12.31	12.36	12.50	2
		1	24	12.42	12.36	12.32	12.50	2
		12	0	11.28	11.23	11.27	11.50	3
Frequency (MHz)				1712.5	1732.5	1752.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				19975	20175	20375		
5	64-QAM	12	6	11.32	11.39	11.39	11.50	3
		12	13	11.31	11.25	11.31	11.50	3
		25	0	11.29	11.34	11.39	11.50	3

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

LTE Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
Channel				19965	20175	20385			
3	QPSK	1	0	14.32	14.25	14.36	14.50	0	
		1	7	14.28	14.32	14.31	14.50	0	
		1	14	14.36	14.23	14.35	14.50	0	
		8	0	13.34	13.29	13.39	13.50	1	
		8	4	13.34	13.29	13.35	13.50	1	
		8	7	13.28	13.32	13.28	13.50	1	
	16-QAM	15	0	13.26	13.29	13.28	13.50	1	
		1	0	13.38	13.30	13.34	13.50	1	
		1	7	13.38	13.34	13.30	13.50	1	
		1	14	13.22	13.31	13.24	13.50	1	
		8	0	12.40	12.39	12.33	12.50	2	
		8	4	12.25	12.39	12.35	12.50	2	
	64-QAM	8	7	12.29	12.36	12.28	12.50	2	
		15	0	12.37	12.31	12.28	12.50	2	
		1	0	12.27	12.38	12.32	12.50	2	
		1	7	12.38	12.28	12.30	12.50	2	
		1	14	12.37	12.35	12.29	12.50	2	
		8	0	11.29	11.24	11.30	11.50	3	
	Frequency (MHz)				1710.7	1732.5	1754.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				19957	20175	20393		
	1.4	QPSK	1	0	14.33	14.32	14.37	14.50	0
1			2	14.32	14.30	14.23	14.50	0	
1			5	14.28	14.29	14.33	14.50	0	
3			0	13.32	13.27	13.41	13.50	1	
3			2	13.33	13.23	13.32	13.50	1	
3			3	13.28	13.30	13.23	13.50	1	
16-QAM		6	0	13.35	13.25	13.28	13.50	1	
		1	0	13.33	13.22	13.36	13.50	1	
		1	2	13.30	13.37	13.28	13.50	1	
		1	5	13.29	13.34	13.30	13.50	1	
		3	0	12.32	12.34	12.36	12.50	2	
		3	2	12.28	12.32	12.38	12.50	2	
64-QAM		3	3	12.35	12.34	12.32	12.50	2	
		6	0	12.32	12.39	12.29	12.50	2	
		1	0	12.25	12.34	12.32	12.50	2	
		1	2	12.35	12.34	12.34	12.50	2	
		1	5	12.36	12.34	12.29	12.50	2	
		3	0	11.27	11.27	11.27	11.50	3	
Frequency (MHz)				1710.7	1732.5	1754.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				19957	20175	20393			
1.4	QPSK	3	2	11.32	11.28	11.37	11.50	3	
		3	3	11.32	11.25	11.34	11.50	3	
		6	0	11.29	11.31	11.34	11.50	3	

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LTE Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			829	836.5	844			
Channel			20450	20525	20600			
10	QPSK	1	0	19.35	19.34	19.29	19.50	0
		1	25	19.34	19.32	19.31	19.50	0
		1	49	19.31	19.30	19.26	19.50	0
		25	0	18.32	18.25	18.31	18.50	1
		25	12	18.30	18.22	18.30	18.50	1
		25	25	18.23	18.18	18.24	18.50	1
	16-QAM	50	0	18.23	18.18	18.13	18.50	1
		1	0	18.34	18.22	18.21	18.50	1
		1	25	18.26	18.25	18.30	18.50	1
		1	49	18.22	18.28	18.21	18.50	1
		25	0	17.33	17.23	17.27	17.50	2
		25	12	17.29	17.21	17.17	17.50	2
	64-QAM	25	25	17.19	17.23	17.31	17.50	2
		50	0	17.23	17.23	17.23	17.50	2
		1	0	17.22	17.27	17.22	17.50	2
		1	25	17.22	17.25	17.24	17.50	2
		1	49	17.24	17.25	17.26	17.50	2
		25	0	16.28	16.26	16.27	16.50	3
		25	12	16.22	16.31	16.21	16.50	3
		25	25	16.28	16.29	16.28	16.50	3
Frequency (MHz)			826.5	836.5	846.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20425	20525	20625			
5	QPSK	1	0	19.33	19.28	19.28	19.50	0
		1	12	19.33	19.23	19.27	19.50	0
		1	24	19.31	19.30	19.26	19.50	0
		12	0	18.28	18.17	18.24	18.50	1
		12	6	18.30	18.20	18.28	18.50	1
		12	13	18.26	18.24	18.27	18.50	1
	16-QAM	25	0	18.16	18.22	18.22	18.50	1
		1	0	18.33	18.23	18.20	18.50	1
		1	12	18.28	18.23	18.26	18.50	1
		1	24	18.17	18.26	18.24	18.50	1
		12	0	17.31	17.25	17.30	17.50	2
		12	6	17.25	17.16	17.17	17.50	2
	64-QAM	12	13	17.18	17.22	17.23	17.50	2
		25	0	17.26	17.17	17.26	17.50	2
		1	0	17.23	17.28	17.22	17.50	2
		1	12	17.19	17.29	17.17	17.50	2
		1	24	17.28	17.25	17.26	17.50	2
		12	0	16.18	16.21	16.25	16.50	3
12	6	16.29	16.28	16.27	16.50	3		
12	13	16.31	16.32	16.22	16.50	3		
25	0	16.26	16.27	16.24	16.50	3		

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LTE Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				825.5	836.5	847.5			
Channel				20415	20525	20635			
3	QPSK	1	0	19.33	19.30	19.19	19.50	0	
		1	7	19.33	19.29	19.22	19.50	0	
		1	14	19.29	19.30	19.21	19.50	0	
		8	0	18.27	18.25	18.28	18.50	1	
		8	4	18.26	18.25	18.25	18.50	1	
		8	7	18.22	18.24	18.29	18.50	1	
	16-QAM	15	0	18.25	18.21	18.23	18.50	1	
		1	0	18.32	18.18	18.22	18.50	1	
		1	7	18.31	18.22	18.21	18.50	1	
		1	14	18.19	18.23	18.20	18.50	1	
		8	0	17.25	17.20	17.31	17.50	2	
		8	4	17.29	17.23	17.24	17.50	2	
	64-QAM	8	7	17.24	17.22	17.21	17.50	2	
		15	0	17.26	17.18	17.26	17.50	2	
		1	0	17.20	17.18	17.22	17.50	2	
		1	7	17.19	17.28	17.18	17.50	2	
		1	14	17.29	17.18	17.30	17.50	2	
		8	0	16.26	16.20	16.20	16.50	3	
	Frequency (MHz)				824.7	836.5	848.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				20407	20525	20643		
	1.4	QPSK	1	0	19.28	19.31	19.22	19.50	0
1			2	19.28	19.27	19.30	19.50	0	
1			5	19.29	19.25	19.24	19.50	0	
3			0	18.25	18.21	18.30	18.50	1	
3			2	18.33	18.22	18.27	18.50	1	
3			3	18.16	18.20	18.29	18.50	1	
16-QAM		6	0	18.16	18.20	18.26	18.50	1	
		1	0	18.24	18.26	18.17	18.50	1	
		1	2	18.24	18.28	18.23	18.50	1	
		1	5	18.26	18.28	18.24	18.50	1	
		3	0	17.32	17.26	17.27	17.50	2	
		3	2	17.22	17.25	17.21	17.50	2	
64-QAM		3	3	17.22	17.24	17.24	17.50	2	
		6	0	17.22	17.15	17.17	17.50	2	
		1	0	17.19	17.22	17.30	17.50	2	
		1	2	17.22	17.19	17.22	17.50	2	
		1	5	17.32	17.26	17.20	17.50	2	
		3	0	16.20	16.18	16.22	16.50	3	
Frequency (MHz)				824.7	836.5	848.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				20407	20525	20643			
1.4	QPSK	3	2	16.24	16.28	16.28	16.50	3	
		3	3	16.26	16.26	16.23	16.50	3	
		6	0	16.24	16.28	16.23	16.50	3	
		1	0	16.24	16.28	16.23	16.50	3	
		1	2	16.24	16.28	16.23	16.50	3	
		6	0	16.24	16.28	16.23	16.50	3	

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LTE Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2510	2535	2560			
Channel			20850	21100	21350			
20	QPSK	1	0	12.60	12.62	12.65	13.00	0
		1	50	12.56	12.60	12.56	13.00	0
		1	99	12.56	12.57	12.55	13.00	0
		50	0	11.56	11.60	11.59	12.00	1
		50	25	11.56	11.50	11.55	12.00	1
		50	50	11.49	11.49	11.57	12.00	1
	16-QAM	100	0	11.56	11.54	11.57	12.00	1
		1	0	11.58	11.54	11.55	12.00	1
		1	50	11.49	11.47	11.56	12.00	1
		1	99	11.60	11.47	11.60	12.00	1
		50	0	10.60	10.55	10.51	11.00	2
		50	25	10.56	10.56	10.63	11.00	2
	64-QAM	50	50	10.54	10.53	10.56	11.00	2
		100	0	10.49	10.52	10.51	11.00	2
		1	0	10.59	10.51	10.64	11.00	2
		1	50	10.58	10.57	10.52	11.00	2
		1	99	10.53	10.59	10.61	11.00	2
		50	0	9.51	9.57	9.63	10.00	3
	Frequency (MHz)			2507.5	2535	2562.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			20825	21100	21375		
	15	QPSK	1	0	12.50	12.56	12.59	13.00
1			36	12.48	12.50	12.55	13.00	0
1			74	12.51	12.54	12.54	13.00	0
36			0	11.56	11.53	11.55	12.00	1
36			18	11.59	11.53	11.48	12.00	1
36			37	11.55	11.57	11.63	12.00	1
16-QAM		75	0	11.57	11.54	11.55	12.00	1
		1	0	11.61	11.58	11.53	12.00	1
		1	36	11.56	11.48	11.57	12.00	1
		1	74	11.52	11.51	11.59	12.00	1
		36	0	10.52	10.61	10.56	11.00	2
		36	18	10.57	10.54	10.58	11.00	2
64-QAM		36	37	10.55	10.50	10.57	11.00	2
		75	0	10.57	10.52	10.52	11.00	2
		1	0	10.63	10.53	10.62	11.00	2
		1	36	10.59	10.58	10.51	11.00	2
		1	74	10.54	10.60	10.61	11.00	2
		36	0	9.47	9.57	9.54	10.00	3
Frequency (MHz)			2507.5	2535	2562.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20825	21100	21375			
15	64-QAM	36	18	9.52	9.51	9.58	10.00	3
		36	37	9.51	9.58	9.61	10.00	3
		36	0	9.47	9.57	9.54	10.00	3
		75	0	9.56	9.55	9.57	10.00	3

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LTE Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2505	2535	2565			
Channel			20800	21100	21400			
10	QPSK	1	0	12.54	12.59	12.60	13.00	0
		1	25	12.53	12.58	12.49	13.00	0
		1	49	12.49	12.47	12.55	13.00	0
		25	0	11.54	11.56	11.54	12.00	1
		25	12	11.60	11.53	11.55	12.00	1
		25	25	11.48	11.48	11.59	12.00	1
	16-QAM	50	0	11.58	11.53	11.60	12.00	1
		1	0	11.64	11.56	11.57	12.00	1
		1	25	11.53	11.49	11.55	12.00	1
		1	49	11.53	11.49	11.53	12.00	1
		25	0	10.53	10.58	10.60	11.00	2
		25	12	10.55	10.49	10.53	11.00	2
	64-QAM	25	25	10.57	10.54	10.57	11.00	2
		50	0	10.59	10.58	10.57	11.00	2
		1	0	10.54	10.58	10.60	11.00	2
		1	25	10.55	10.62	10.48	11.00	2
		1	49	10.52	10.62	10.64	11.00	2
		25	0	9.50	9.63	9.55	10.00	3
		25	12	9.55	9.59	9.58	10.00	3
		25	25	9.56	9.64	9.55	10.00	3
Frequency (MHz)			2502.5	2535	2567.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20775	21100	21425			
5	QPSK	1	0	12.50	12.57	12.60	13.00	0
		1	12	12.52	12.51	12.55	13.00	0
		1	24	12.53	12.52	12.45	13.00	0
		12	0	11.62	11.54	11.51	12.00	1
		12	6	11.60	11.49	11.53	12.00	1
		12	13	11.55	11.48	11.61	12.00	1
	16-QAM	25	0	11.54	11.48	11.52	12.00	1
		1	0	11.64	11.61	11.57	12.00	1
		1	12	11.57	11.53	11.54	12.00	1
		1	24	11.51	11.52	11.54	12.00	1
		12	0	10.51	10.59	10.58	11.00	2
		12	6	10.59	10.55	10.63	11.00	2
	64-QAM	12	13	10.50	10.48	10.58	11.00	2
		25	0	10.49	10.53	10.55	11.00	2
		1	0	10.54	10.53	10.59	11.00	2
		1	12	10.49	10.65	10.46	11.00	2
		1	24	10.59	10.64	10.56	11.00	2
		12	0	9.47	9.60	9.55	10.00	3
		12	6	9.48	9.49	9.58	10.00	3
		12	13	9.60	9.64	9.57	10.00	3
25	0	9.47	9.54	9.60	10.00	3		

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LTE Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			704	707.5	711			
Channel			23060	23095	23130			
10	QPSK	1	0	18.43	18.44	18.41	18.50	0
		1	25	18.39	18.36	18.40	18.50	0
		1	49	18.36	18.37	18.37	18.50	0
		25	0	17.38	17.39	17.38	17.50	1
		25	12	17.33	17.33	17.26	17.50	1
		25	25	17.36	17.35	17.32	17.50	1
	16-QAM	50	0	17.30	17.33	17.28	17.50	1
		1	0	17.28	17.27	17.25	17.50	1
		1	25	17.25	17.31	17.43	17.50	1
		1	49	17.37	17.38	17.29	17.50	1
		25	0	16.30	16.42	16.39	16.50	2
		25	12	16.37	16.38	16.30	16.50	2
	64-QAM	25	25	16.35	16.34	16.35	16.50	2
		50	0	16.37	16.31	16.34	16.50	2
		1	0	16.36	16.29	16.30	16.50	2
		1	25	16.30	16.39	16.36	16.50	2
		1	49	16.39	16.33	16.40	16.50	2
		25	0	15.35	15.34	15.34	15.50	3
	Frequency (MHz)			701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			23035	23095	23155		
	5	QPSK	1	0	18.35	18.34	18.35	18.50
1			12	18.32	18.36	18.30	18.50	0
1			24	18.32	18.37	18.34	18.50	0
12			0	17.43	17.38	17.41	17.50	1
12			6	17.43	17.26	17.30	17.50	1
12			13	17.37	17.28	17.41	17.50	1
16-QAM		25	0	17.25	17.32	17.33	17.50	1
		1	0	17.36	17.35	17.28	17.50	1
		1	12	17.35	17.27	17.40	17.50	1
		1	24	17.29	17.43	17.30	17.50	1
		12	0	16.30	16.40	16.39	16.50	2
		12	6	16.36	16.36	16.37	16.50	2
64-QAM		12	13	16.37	16.25	16.35	16.50	2
		25	0	16.37	16.38	16.35	16.50	2
		1	0	16.29	16.30	16.28	16.50	2
		1	12	16.25	16.35	16.30	16.50	2
		1	24	16.33	16.33	16.41	16.50	2
		12	0	15.29	15.34	15.39	15.50	3
Frequency (MHz)			701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23035	23095	23155			
5	QPSK	12	6	15.30	15.32	15.26	15.50	3
		12	13	15.39	15.42	15.37	15.50	3
		25	0	15.32	15.30	15.34	15.50	3

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

LTE Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				700.5	707.5	714.5			
Channel				23025	23095	23165			
3	QPSK	1	0	18.36	18.35	18.38	18.50	0	
		1	7	18.33	18.27	18.34	18.50	0	
		1	14	18.27	18.30	18.34	18.50	0	
		8	0	17.37	17.40	17.39	17.50	1	
		8	4	17.41	17.28	17.29	17.50	1	
		8	7	17.33	17.37	17.37	17.50	1	
	16-QAM	15	0	17.32	17.29	17.28	17.50	1	
		1	0	17.30	17.30	17.31	17.50	1	
		1	7	17.35	17.29	17.38	17.50	1	
		1	14	17.30	17.39	17.35	17.50	1	
		8	0	16.38	16.35	16.40	16.50	2	
		8	4	16.35	16.41	16.32	16.50	2	
	64-QAM	8	7	16.43	16.30	16.33	16.50	2	
		15	0	16.32	16.37	16.30	16.50	2	
		1	0	16.37	16.34	16.27	16.50	2	
		1	7	16.27	16.34	16.35	16.50	2	
		1	14	16.41	16.29	16.34	16.50	2	
		8	0	15.36	15.37	15.42	15.50	3	
	Frequency (MHz)				699.7	707.5	715.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				23017	23095	23173		
	1.4	QPSK	1	0	18.36	18.41	18.33	18.50	0
			1	2	18.34	18.33	18.37	18.50	0
			1	5	18.33	18.27	18.35	18.50	0
			3	0	17.36	17.36	17.43	17.50	1
3			2	17.41	17.25	17.30	17.50	1	
3			3	17.32	17.32	17.38	17.50	1	
16-QAM		6	0	17.29	17.34	17.30	17.50	1	
		1	0	17.36	17.34	17.29	17.50	1	
		1	2	17.33	17.28	17.41	17.50	1	
		1	5	17.28	17.38	17.34	17.50	1	
		3	0	16.37	16.40	16.34	16.50	2	
		3	2	16.38	16.33	16.34	16.50	2	
64-QAM		3	3	16.43	16.32	16.39	16.50	2	
		6	0	16.36	16.40	16.37	16.50	2	
		1	0	16.29	16.34	16.32	16.50	2	
		1	2	16.31	16.34	16.34	16.50	2	
		1	5	16.39	16.34	16.40	16.50	2	
		3	0	15.35	15.36	15.43	15.50	3	
Frequency (MHz)				699.7	707.5	715.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				23017	23095	23173			
1.4	QPSK	3	2	15.33	15.29	15.33	15.50	3	
		3	3	15.37	15.43	15.43	15.50	3	
		6	0	15.32	15.32	15.29	15.50	3	

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LTE Band 13								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			782	782	782			
Channel			23230	23230	23230			
10	QPSK	1	0	18.75			19.00	0
		1	25	18.67			19.00	0
		1	49	18.73			19.00	0
		25	0	17.70			18.00	1
		25	12	17.65			18.00	1
		25	25	17.64			18.00	1
	16-QAM	50	0	17.68			18.00	1
		1	0	17.72			18.00	1
		1	25	17.69			18.00	1
		1	49	17.58			18.00	1
		25	0	16.63			17.00	2
		25	12	16.69			17.00	2
	64-QAM	25	25	16.57			17.00	2
		50	0	16.70			17.00	2
		1	0	16.72			17.00	2
		1	25	16.69			17.00	2
		1	49	16.60			17.00	2
		25	0	15.66			16.00	3
	Frequency (MHz)			779.5	782	784.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			23205	23230	23255		
	5	QPSK	1	0	18.66	18.68	18.66	19.00
1			12	18.60	18.66	18.62	19.00	0
1			24	18.59	18.66	18.65	19.00	0
12			0	17.70	17.66	17.67	18.00	1
12			6	17.70	17.62	17.69	18.00	1
12			13	17.67	17.58	17.65	18.00	1
16-QAM		25	0	17.74	17.60	17.61	18.00	1
		1	0	17.60	17.70	17.66	18.00	1
		1	12	17.70	17.62	17.71	18.00	1
		1	24	17.62	17.63	17.60	18.00	1
		12	0	16.57	16.66	16.72	17.00	2
		12	6	16.62	16.64	16.69	17.00	2
64-QAM		12	13	16.61	16.57	16.62	17.00	2
		25	0	16.68	16.74	16.64	17.00	2
		1	0	16.60	16.67	16.61	17.00	2
		1	12	16.70	16.63	16.68	17.00	2
		1	24	16.63	16.68	16.62	17.00	2
		12	0	15.61	15.70	15.67	16.00	3
Frequency (MHz)			779.5	782	784.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23205	23230	23255			
5		QPSK	12	6	15.65	15.65	15.64	16.00
	12		13	15.61	15.61	15.70	16.00	3
	25		0	15.58	15.60	15.73	16.00	3
	25		0	15.58	15.60	15.73	16.00	3

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LTE Band 14								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			793	793	793			
Channel			23330	23330	23330			
10	QPSK	1	0	19.39			19.50	0
		1	25	19.36			19.50	0
		1	49	19.37			19.50	0
		25	0	18.30			18.50	1
		25	12	18.29			18.50	1
		25	25	18.27			18.50	1
	16-QAM	50	0	18.30			18.50	1
		1	0	18.32			18.50	1
		1	25	18.26			18.50	1
		1	49	18.32			18.50	1
		25	0	17.29			17.50	2
		25	12	17.29			17.50	2
	64-QAM	25	25	17.30			17.50	2
		50	0	17.36			17.50	2
		1	0	17.28			17.50	2
		1	25	17.25			17.50	2
		1	49	17.24			17.50	2
		25	0	16.25			16.50	3
Frequency (MHz)			790.5	793	795.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23305	23330	23355			
5	QPSK	1	0	19.33	19.36	19.22	19.50	0
		1	12	19.29	19.34	19.30	19.50	0
		1	24	19.27	19.37	19.32	19.50	0
		12	0	18.34	18.31	18.31	18.50	1
		12	6	18.30	18.33	18.27	18.50	1
		12	13	18.30	18.33	18.29	18.50	1
	16-QAM	25	0	18.24	18.20	18.24	18.50	1
		1	0	18.30	18.37	18.29	18.50	1
		1	12	18.29	18.30	18.27	18.50	1
		1	24	18.26	18.35	18.27	18.50	1
		12	0	17.26	17.25	17.34	17.50	2
		12	6	17.27	17.35	17.35	17.50	2
	64-QAM	12	13	17.20	17.23	17.25	17.50	2
		25	0	17.30	17.35	17.26	17.50	2
		1	0	17.28	17.30	17.35	17.50	2
		1	12	17.20	17.24	17.29	17.50	2
		1	24	17.19	17.26	17.30	17.50	2
		12	0	16.31	16.27	16.26	16.50	3
Frequency (MHz)			790.5	793	795.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23305	23330	23355			
5	QPSK	12	6	16.35	16.30	16.30	16.50	3
		12	13	16.35	16.24	16.32	16.50	3
		25	0	16.30	16.23	16.33	16.50	3

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LTE Band 17									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			709	710	711				
Channel			23780	23790	23800				
10	QPSK	1	0	23.17	23.44	23.21	24.00	0	
		1	25	23.08	23.35	23.06	24.00	0	
		1	49	23.01	23.26	23.03	24.00	0	
		25	0	22.11	22.40	22.13	23.00	1	
		25	12	22.04	22.39	22.10	23.00	1	
		25	25	22.10	22.38	22.11	23.00	1	
	16-QAM	50	0	22.11	22.39	22.10	23.00	1	
		1	0	22.08	22.44	22.21	23.00	1	
		1	25	22.02	22.33	22.06	23.00	1	
		1	49	22.02	22.19	22.03	23.00	1	
		25	0	21.03	21.38	21.11	22.00	2	
		25	12	21.46	21.34	21.05	22.00	2	
	64-QAM	25	25	21.08	21.35	21.04	22.00	2	
		50	0	21.10	21.29	21.02	22.00	2	
		1	0	21.07	21.40	21.21	22.00	2	
		1	25	21.02	21.33	21.02	22.00	2	
		1	49	21.04	21.21	21.03	22.00	2	
		25	0	20.06	20.39	20.03	21.00	3	
	Frequency (MHz)			706.5	710	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
	Channel			23755	23790	23825			
	5	QPSK	1	0	23.16	23.41	23.17	24.00	0
			1	12	23.02	23.32	23.00	24.00	0
			1	24	23.05	23.16	23.09	24.00	0
			12	0	22.01	22.37	22.10	23.00	1
12			6	22.08	22.33	22.09	23.00	1	
12			13	22.06	22.37	22.04	23.00	1	
16-QAM		25	0	22.03	22.39	22.00	23.00	1	
		1	0	22.08	22.37	22.19	23.00	1	
		1	12	22.04	22.33	22.02	23.00	1	
		1	24	22.04	22.10	22.03	23.00	1	
		12	0	21.04	21.32	21.05	22.00	2	
		12	6	21.99	21.28	21.03	22.00	2	
64-QAM		12	13	21.08	21.31	21.02	22.00	2	
		25	0	21.06	21.24	21.06	22.00	2	
		1	0	21.00	21.36	21.14	22.00	2	
		1	12	21.07	21.29	21.02	22.00	2	
		1	24	21.04	21.19	21.01	22.00	2	
		12	0	20.04	20.31	20.03	21.00	3	
Frequency (MHz)			706.5	710	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			23755	23790	23825				
5		QPSK	12	6	20.08	20.31	20.04	21.00	3
			12	13	20.01	20.20	20.05	21.00	3
			25	0	20.00	20.30	20.07	21.00	3

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LTE Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1860	1882.5	1905			
Channel			26140	26365	26590			
20	QPSK	1	0	13.49	13.48	13.45	13.50	0
		1	50	13.45	13.45	13.42	13.50	0
		1	99	13.46	13.42	13.40	13.50	0
		50	0	12.42	12.44	12.34	12.50	1
		50	25	12.34	12.41	12.39	12.50	1
		50	50	12.37	12.37	12.34	12.50	1
	16-QAM	100	0	12.38	12.34	12.36	12.50	1
		1	0	12.34	12.42	12.38	12.50	1
		1	50	12.39	12.39	12.36	12.50	1
		1	99	12.41	12.37	12.48	12.50	1
		50	0	11.38	11.35	11.41	11.50	2
		50	25	11.39	11.42	11.40	11.50	2
	64-QAM	50	50	11.44	11.33	11.40	11.50	2
		100	0	11.33	11.42	11.37	11.50	2
		1	0	11.37	11.40	11.43	11.50	2
		1	50	11.42	11.47	11.40	11.50	2
		1	99	11.33	11.46	11.44	11.50	2
		50	0	10.38	10.38	10.38	10.50	3
		50	25	10.30	10.39	10.41	10.50	3
		50	50	10.35	10.37	10.39	10.50	3
		100	0	10.36	10.46	10.40	10.50	3
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1857.5	1882.5	1907.5			
Channel			26115	26365	26615			
15	QPSK	1	0	13.45	13.45	13.39	13.50	0
		1	36	13.35	13.36	13.35	13.50	0
		1	74	13.39	13.31	13.34	13.50	0
		36	0	12.41	12.37	12.42	12.50	1
		36	18	12.41	12.38	12.39	12.50	1
		36	37	12.45	12.39	12.36	12.50	1
	16-QAM	75	0	12.37	12.35	12.44	12.50	1
		1	0	12.37	12.43	12.43	12.50	1
		1	36	12.39	12.36	12.33	12.50	1
		1	74	12.39	12.32	12.43	12.50	1
		36	0	11.46	11.40	11.45	11.50	2
		36	18	11.32	11.42	11.38	11.50	2
	64-QAM	36	37	11.41	11.32	11.35	11.50	2
		75	0	11.34	11.46	11.36	11.50	2
		1	0	11.36	11.44	11.41	11.50	2
		1	36	11.37	11.47	11.33	11.50	2
		1	74	11.31	11.42	11.42	11.50	2
		36	0	10.36	10.42	10.41	10.50	3
		36	18	10.35	10.40	10.41	10.50	3
		36	37	10.39	10.36	10.40	10.50	3
		75	0	10.31	10.41	10.34	10.50	3

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LTE Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1882.5	1910			
Channel			26090	26365	26640			
10	QPSK	1	0	13.41	13.43	13.39	13.50	0
		1	25	13.37	13.39	13.45	13.50	0
		1	49	13.43	13.41	13.37	13.50	0
		25	0	12.43	12.34	12.35	12.50	1
		25	12	12.32	12.35	12.39	12.50	1
		25	25	12.39	12.39	12.33	12.50	1
	16-QAM	50	0	12.34	12.30	12.40	12.50	1
		1	0	12.32	12.40	12.47	12.50	1
		1	25	12.38	12.35	12.43	12.50	1
		1	49	12.42	12.30	12.45	12.50	1
		25	0	11.41	11.43	11.41	11.50	2
		25	12	11.33	11.32	11.38	11.50	2
	64-QAM	25	25	11.47	11.37	11.40	11.50	2
		50	0	11.34	11.44	11.40	11.50	2
		1	0	11.36	11.43	11.42	11.50	2
		1	25	11.42	11.46	11.36	11.50	2
		1	49	11.41	11.46	11.40	11.50	2
		25	0	10.37	10.47	10.32	10.50	3
		25	12	10.30	10.41	10.40	10.50	3
		25	25	10.31	10.34	10.40	10.50	3
Frequency (MHz)			1852.5	1882.5	1912.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26065	26365	26665			
5	QPSK	1	0	13.39	13.39	13.38	13.50	0
		1	12	13.44	13.37	13.40	13.50	0
		1	24	13.39	13.31	13.39	13.50	0
		12	0	12.43	12.36	12.37	12.50	1
		12	6	12.35	12.43	12.39	12.50	1
		12	13	12.38	12.35	12.38	12.50	1
	16-QAM	25	0	12.40	12.32	12.39	12.50	1
		1	0	12.31	12.38	12.47	12.50	1
		1	12	12.42	12.35	12.39	12.50	1
		1	24	12.45	12.38	12.46	12.50	1
		12	0	11.44	11.41	11.38	11.50	2
		12	6	11.35	11.40	11.43	11.50	2
	64-QAM	12	13	11.40	11.39	11.42	11.50	2
		25	0	11.38	11.47	11.37	11.50	2
		1	0	11.35	11.39	11.41	11.50	2
		1	12	11.40	11.42	11.42	11.50	2
		1	24	11.35	11.38	11.40	11.50	2
		12	0	10.36	10.38	10.41	10.50	3
Frequency (MHz)			1852.5	1882.5	1912.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26065	26365	26665			
5	QPSK	12	6	12.35	12.43	12.39	12.50	1
		12	13	12.38	12.35	12.38	12.50	1
		25	0	12.40	12.32	12.39	12.50	1
		1	0	12.31	12.38	12.47	12.50	1
		1	12	12.42	12.35	12.39	12.50	1
		1	24	12.45	12.38	12.46	12.50	1
	16-QAM	12	0	11.44	11.41	11.38	11.50	2
		12	6	11.35	11.40	11.43	11.50	2
		12	13	11.40	11.39	11.42	11.50	2
		25	0	11.38	11.47	11.37	11.50	2
		1	0	11.35	11.39	11.41	11.50	2
		1	12	11.40	11.42	11.42	11.50	2
	64-QAM	1	24	11.35	11.38	11.40	11.50	2
		12	0	10.36	10.38	10.41	10.50	3
		12	6	10.37	10.43	10.35	10.50	3
		12	13	10.31	10.34	10.44	10.50	3
		25	0	10.37	10.38	10.36	10.50	3

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LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			824	831.5	839			
Channel			26790	26865	26940			
15	QPSK	1	0	18.36	18.32	18.27	18.50	0
		1	36	18.35	18.26	18.29	18.50	0
		1	74	18.29	18.26	18.34	18.50	0
		36	0	17.30	17.32	17.24	17.50	1
		36	18	17.24	17.18	17.19	17.50	1
		36	37	17.21	17.18	17.17	17.50	1
	16-QAM	75	0	17.24	17.21	17.23	17.50	1
		1	0	17.27	17.31	17.18	17.50	1
		1	36	17.26	17.21	17.27	17.50	1
		1	74	17.25	17.31	17.22	17.50	1
		36	0	16.23	16.25	16.34	16.50	2
		36	18	16.33	16.31	16.26	16.50	2
	64-QAM	36	37	16.19	16.20	16.23	16.50	2
		75	0	16.30	16.25	16.22	16.50	2
		1	0	16.26	16.31	16.30	16.50	2
		1	36	16.19	16.29	16.33	16.50	2
		1	74	16.19	16.24	16.23	16.50	2
		36	0	15.23	15.33	15.28	15.50	3
	Frequency (MHz)			821.5	831.5	841.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			26765	26865	26965		
	10	QPSK	1	0	18.29	18.31	18.22	18.50
1			25	18.28	18.21	18.25	18.50	0
1			49	18.29	18.20	18.31	18.50	0
25			0	17.33	17.34	17.28	17.50	1
25			12	17.26	17.24	17.17	17.50	1
25			25	17.26	17.27	17.20	17.50	1
16-QAM		50	0	17.22	17.23	17.23	17.50	1
		1	0	17.21	17.25	17.27	17.50	1
		1	25	17.26	17.19	17.24	17.50	1
		1	49	17.17	17.28	17.25	17.50	1
		25	0	16.21	16.22	16.29	16.50	2
		25	12	16.25	16.24	16.25	16.50	2
64-QAM		25	25	16.25	16.18	16.17	16.50	2
		50	0	16.29	16.29	16.24	16.50	2
		1	0	16.24	16.32	16.28	16.50	2
		1	25	16.22	16.29	16.31	16.50	2
		1	49	16.25	16.20	16.28	16.50	2
		25	0	15.23	15.24	15.30	15.50	3
Frequency (MHz)			821.5	831.5	841.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26765	26865	26965			
10	64-QAM	25	12	15.19	15.28	15.35	15.50	3
		25	25	15.29	15.25	15.30	15.50	3
		50	0	15.29	15.23	15.20	15.50	3

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LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			819	831.5	844			
Channel			26740	26865	26990			
5	QPSK	1	0	18.33	18.28	18.25	18.50	0
		1	12	18.35	18.21	18.25	18.50	0
		1	24	18.23	18.20	18.27	18.50	0
		12	0	17.28	17.32	17.23	17.50	1
		12	6	17.26	17.20	17.26	17.50	1
		12	13	17.26	17.19	17.17	17.50	1
	16-QAM	25	0	17.30	17.21	17.29	17.50	1
		1	0	17.26	17.27	17.19	17.50	1
		1	12	17.19	17.25	17.21	17.50	1
		1	24	17.22	17.23	17.29	17.50	1
		12	0	16.30	16.19	16.26	16.50	2
		12	6	16.32	16.34	16.28	16.50	2
	64-QAM	12	13	16.21	16.25	16.22	16.50	2
		25	0	16.32	16.32	16.26	16.50	2
		1	0	16.25	16.31	16.32	16.50	2
		1	12	16.25	16.26	16.23	16.50	2
		1	24	16.18	16.25	16.23	16.50	2
		12	0	15.25	15.29	15.27	15.50	3
		12	6	15.25	15.24	15.31	15.50	3
		12	13	15.23	15.19	15.25	15.50	3
Frequency (MHz)			816.5	831.5	846.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26715	26865	27015			
3	QPSK	1	0	18.26	18.28	18.26	18.50	0
		1	7	18.31	18.21	18.29	18.50	0
		1	14	18.23	18.18	18.30	18.50	0
		8	0	17.26	17.33	17.30	17.50	1
		8	4	17.28	17.16	17.16	17.50	1
		8	7	17.18	17.24	17.19	17.50	1
	16-QAM	15	0	17.30	17.21	17.22	17.50	1
		1	0	17.24	17.31	17.23	17.50	1
		1	7	17.19	17.25	17.18	17.50	1
		1	14	17.21	17.27	17.29	17.50	1
		8	0	16.29	16.17	16.32	16.50	2
		8	4	16.30	16.29	16.28	16.50	2
	64-QAM	8	7	16.22	16.20	16.25	16.50	2
		15	0	16.27	16.32	16.17	16.50	2
		1	0	16.24	16.25	16.28	16.50	2
		1	7	16.21	16.21	16.23	16.50	2
		1	14	16.16	16.26	16.23	16.50	2
		8	0	15.24	15.27	15.27	15.50	3
64-QAM	8	4	15.23	15.29	15.25	15.50	3	
	8	7	15.29	15.21	15.31	15.50	3	
	15	0	15.21	15.27	15.18	15.50	3	

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LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			815.5	831.5	847.5			
Channel			26705	26865	27025			
1.4	QPSK	1	0	18.31	18.31	18.22	18.50	0
		1	2	18.26	18.18	18.28	18.50	0
		1	5	18.19	18.24	18.33	18.50	0
		3	0	17.35	17.29	17.30	17.50	0
		3	2	17.25	17.18	17.21	17.50	0
		3	3	17.26	17.21	17.24	17.50	0
	16-QAM	6	0	17.26	17.27	17.23	17.50	1
		1	0	17.22	17.26	17.21	17.50	1
		1	2	17.21	17.21	17.20	17.50	1
		1	5	17.25	17.26	17.27	17.50	1
		3	0	16.30	16.25	16.35	16.50	1
		3	2	16.29	16.30	16.30	16.50	1
	64-QAM	3	3	16.26	16.26	16.18	16.50	1
		6	0	16.30	16.27	16.21	16.50	2
		1	0	16.27	16.34	16.31	16.50	2
		1	2	16.19	16.28	16.30	16.50	2
		1	5	16.21	16.21	16.25	16.50	2
		3	0	15.21	15.30	15.33	15.50	2
		3	2	15.29	15.32	15.35	15.50	2
		3	3	15.23	15.25	15.27	15.50	2
		6	0	15.30	15.26	15.22	15.50	3

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LTE Band 30								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2310	2310	2310			
Channel			27710	27710	27710			
10	QPSK	1	0	17.49			17.50	0
		1	25	17.45			17.50	0
		1	49	17.38			17.50	0
		25	0	16.48			16.50	1
		25	12	16.32			16.50	1
		25	25	16.34			16.50	1
		50	0	16.32			16.50	1
	16-QAM	1	0	16.40			16.50	1
		1	25	16.45			16.50	1
		1	49	16.39			16.50	1
		25	0	15.37			15.50	2
		25	12	15.40			15.50	2
		25	25	15.42			15.50	2
		50	0	15.41			15.50	2
	64-QAM	1	0	15.45			15.50	2
		1	25	15.32			15.50	2
		1	49	15.37			15.50	2
		25	0	14.34			14.50	3
		25	12	14.43			14.50	3
		25	25	14.40			14.50	3
		50	0	14.39			14.50	3
Frequency (MHz)			2307.5	2310	2312.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			27685	27710	27735			
5	QPSK	1	0	17.39	17.44	17.43	17.50	0
		1	12	17.44	17.39	17.46	17.50	0
		1	24	17.41	17.41	17.43	17.50	0
		12	0	16.45	16.48	16.44	16.50	1
		12	6	16.35	16.32	16.33	16.50	1
		12	13	16.39	16.44	16.37	16.50	1
		25	0	16.35	16.29	16.30	16.50	1
	16-QAM	1	0	16.43	16.44	16.41	16.50	1
		1	12	16.40	16.41	16.41	16.50	1
		1	24	16.41	16.37	16.35	16.50	1
		12	0	15.36	15.43	15.38	15.50	2
		12	6	15.35	15.40	15.34	15.50	2
		12	13	15.43	15.36	15.37	15.50	2
		25	0	15.36	15.36	15.36	15.50	2
	64-QAM	1	0	15.39	15.40	15.39	15.50	2
		1	12	15.42	15.37	15.39	15.50	2
		1	24	15.41	15.45	15.40	15.50	2
		12	0	14.30	14.38	14.37	14.50	3
		12	6	14.42	14.39	14.41	14.50	3
		12	13	14.39	14.38	14.38	14.50	3
		25	0	14.46	14.46	14.44	14.50	3

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LTE Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1720	1745	1770			
Channel				132072	132322	132572			
20	QPSK	1	0	13.47	13.44	13.48	13.50	0	
		1	50	13.42	13.42	13.45	13.50	0	
		1	99	13.38	13.41	13.38	13.50	0	
		50	0	12.40	12.46	12.39	12.50	1	
		50	25	12.40	12.45	12.38	12.50	1	
		50	50	12.38	12.44	12.36	12.50	1	
	16-QAM	100	0	12.38	12.38	12.46	12.50	1	
		1	0	12.46	12.43	12.42	12.50	1	
		1	50	12.39	12.45	12.40	12.50	1	
		1	99	12.42	12.40	12.46	12.50	1	
		50	0	11.40	11.41	11.41	11.50	2	
		50	25	11.43	11.47	11.47	11.50	2	
	64-QAM	50	50	11.42	11.39	11.40	11.50	2	
		100	0	11.40	11.40	11.47	11.50	2	
		1	0	11.40	11.39	11.40	11.50	2	
		1	50	11.44	11.41	11.44	11.50	2	
		1	99	11.41	11.45	11.45	11.50	2	
		50	0	10.42	10.43	10.44	10.50	3	
	Frequency (MHz)				1717.5	1745	1772.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				132047	132322	132597		
	15	QPSK	1	0	13.43	13.43	13.39		
1			36	13.33	13.42	13.45	13.50	0	
1			74	13.35	13.40	13.31	13.50	0	
36			0	12.30	12.41	12.30	12.50	1	
36			18	12.35	12.44	12.30	12.50	1	
36			37	12.30	12.38	12.30	12.50	1	
16-QAM		75	0	12.43	12.35	12.34	12.50	1	
		1	0	12.37	12.43	12.36	12.50	1	
		1	36	12.33	12.43	12.36	12.50	1	
		1	74	12.42	12.37	12.44	12.50	1	
		36	0	11.37	11.41	11.40	11.50	2	
		36	18	11.35	11.40	11.44	11.50	2	
64-QAM		36	37	11.39	11.38	11.30	11.50	2	
		75	0	11.40	11.34	11.44	11.50	2	
		1	0	11.39	11.37	11.38	11.50	2	
	1	36	11.44	11.34	11.40	11.50	2		
	1	74	11.32	11.40	11.36	11.50	2		
	36	0	10.40	10.35	10.41	10.50	3		
Frequency (MHz)				1717.5	1745	1772.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				132047	132322	132597			
	QPSK	36	18	10.39	10.39	10.42			10.50
		36	37	10.39	10.47	10.37	10.50	3	
		75	0	10.31	10.32	10.32	10.50	3	

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LTE Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1715	1745	1775			
Channel			132022	132322	132622			
10	QPSK	1	0	13.41	13.41	13.42	13.50	0
		1	25	13.41	13.36	13.41	13.50	0
		1	49	13.36	13.40	13.38	13.50	0
		25	0	12.31	12.42	12.38	12.50	1
		25	12	12.30	12.37	12.28	12.50	1
		25	25	12.37	12.43	12.30	12.50	1
	16-QAM	50	0	12.37	12.34	12.30	12.50	1
		1	0	12.37	12.33	12.34	12.50	1
		1	25	12.30	12.40	12.32	12.50	1
		1	49	12.41	12.35	12.41	12.50	1
		25	0	11.40	11.35	11.37	11.50	2
		25	12	11.41	11.46	11.37	11.50	2
	64-QAM	25	25	11.35	11.35	11.39	11.50	2
		50	0	11.38	11.38	11.43	11.50	2
		1	0	11.39	11.37	11.36	11.50	2
		1	25	11.38	11.32	11.44	11.50	2
		1	49	11.37	11.35	11.39	11.50	2
		25	0	10.42	10.39	10.42	10.50	3
		25	12	10.46	10.42	10.33	10.50	3
		25	25	10.41	10.41	10.32	10.50	3
Frequency (MHz)			1712.5	1745	1777.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			131997	132322	132647			
5	QPSK	1	0	13.46	13.43	13.43	13.50	0
		1	12	13.35	13.41	13.43	13.50	0
		1	24	13.28	13.35	13.30	13.50	0
		12	0	12.36	12.39	12.34	12.50	1
		12	6	12.38	12.41	12.38	12.50	1
		12	13	12.32	12.40	12.39	12.50	1
	16-QAM	25	0	12.41	12.31	12.38	12.50	1
		1	0	12.36	12.42	12.33	12.50	1
		1	12	12.31	12.40	12.40	12.50	1
		1	24	12.35	12.38	12.42	12.50	1
		12	0	11.31	11.36	11.38	11.50	2
		12	6	11.36	11.43	11.41	11.50	2
	64-QAM	12	13	11.37	11.30	11.37	11.50	2
		25	0	11.39	11.32	11.41	11.50	2
		1	0	11.35	11.38	11.39	11.50	2
		1	12	11.37	11.40	11.34	11.50	2
		1	24	11.31	11.45	11.45	11.50	2
		12	0	10.39	10.35	10.41	10.50	3
		12	6	10.47	10.46	10.39	10.50	3
		12	13	10.35	10.42	10.37	10.50	3
25	0	10.36	10.35	10.38	10.50	3		

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LTE Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1711.5	1745	1778.5			
Channel				131987	132322	132657			
3	QPSK	1	0	13.42	13.40	13.46	13.50	0	
		1	7	13.41	13.41	13.39	13.50	0	
		1	14	13.37	13.40	13.32	13.50	0	
		8	0	12.30	12.45	12.39	12.50	1	
		8	4	12.30	12.36	12.28	12.50	1	
		8	7	12.34	12.44	12.33	12.50	1	
	16-QAM	15	0	12.43	12.33	12.34	12.50	1	
		1	0	12.46	12.36	12.42	12.50	1	
		1	7	12.35	12.41	12.37	12.50	1	
		1	14	12.39	12.40	12.43	12.50	1	
		8	0	11.40	11.33	11.38	11.50	2	
		8	4	11.39	11.44	11.42	11.50	2	
	64-QAM	8	7	11.40	11.31	11.32	11.50	2	
		15	0	11.35	11.32	11.46	11.50	2	
		1	0	11.34	11.35	11.35	11.50	2	
		1	7	11.36	11.33	11.35	11.50	2	
		1	14	11.37	11.37	11.43	11.50	2	
		8	0	10.32	10.40	10.41	10.50	3	
	Frequency (MHz)				1710.7	1745	1779.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				131979	132322	132665		
	1.4	QPSK	1	0	13.41	13.39	13.44	13.50	0
			1	2	13.33	13.33	13.38	13.50	0
			1	5	13.36	13.39	13.38	13.50	0
			3	0	12.30	12.36	12.32	12.50	1
3			2	12.36	12.45	12.33	12.50	1	
3			3	12.37	12.46	12.38	12.50	1	
16-QAM		6	0	12.45	12.34	12.32	12.50	1	
		1	0	12.41	12.35	12.32	12.50	1	
		1	2	12.35	12.40	12.36	12.50	1	
		1	5	12.40	12.31	12.40	12.50	1	
		3	0	11.31	11.41	11.40	11.50	2	
		3	2	11.42	11.40	11.46	11.50	2	
64-QAM		3	3	11.34	11.37	11.36	11.50	2	
		6	0	11.40	11.33	11.44	11.50	2	
		1	0	11.38	11.37	11.40	11.50	2	
		1	2	11.38	11.31	11.41	11.50	2	
		1	5	11.31	11.39	11.42	11.50	2	
		3	0	10.39	10.36	10.40	10.50	3	
Frequency (MHz)				1710.7	1745	1779.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				131979	132322	132665			
1.4	QPSK	3	2	10.46	10.40	10.34	10.50	3	
		3	3	10.44	10.39	10.33	10.50	3	
		6	0	10.35	10.28	10.34	10.50	3	

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**LTE TDD Band 38 / Band 41 power table:**

LTE Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			2580	2595	2610				
Channel			37850	38000	38150				
20	QPSK	1	0	12.42	12.38	12.34	12.50	0	
		1	50	12.36	12.27	12.32	12.50	0	
		1	99	12.39	12.30	12.38	12.50	0	
		50	0	11.34	11.32	11.29	11.50	1	
		50	25	11.31	11.24	11.27	11.50	1	
		50	50	11.33	11.23	11.27	11.50	1	
	100	0	11.37	11.36	11.30	11.50	1		
	16-QAM	1	0	11.29	11.29	11.27	11.50	1	
		1	50	11.32	11.26	11.32	11.50	1	
		1	99	11.29	11.29	11.28	11.50	1	
		50	0	10.39	10.28	10.34	10.50	2	
		50	25	10.27	10.20	10.27	10.50	2	
		50	50	10.33	10.33	10.35	10.50	2	
	100	0	10.33	10.37	10.27	10.50	2		
	64-QAM	1	0	10.23	10.26	10.19	10.50	2	
		1	50	10.33	10.37	10.28	10.50	2	
		1	99	10.25	10.18	10.16	10.50	2	
		50	0	9.30	9.25	9.26	9.50	3	
		50	25	9.38	9.31	9.32	9.50	3	
		50	50	9.33	9.20	9.33	9.50	3	
	100	0	9.31	9.28	9.24	9.50	3		
	Frequency (MHz)				2577.5	2595	2612.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				37825	38000	38175		
	15	QPSK	1	0	12.34	12.32	12.33	12.50	0
1			36	12.30	12.25	12.28	12.50	0	
1			74	12.31	12.26	12.37	12.50	0	
36			0	11.31	11.27	11.17	11.50	1	
36			18	11.20	11.17	11.13	11.50	1	
36			37	11.31	11.20	11.26	11.50	1	
75		0	11.31	11.27	11.15	11.50	1		
16-QAM		1	0	11.29	11.33	11.24	11.50	1	
		1	36	11.33	11.28	11.24	11.50	1	
		1	74	11.37	11.19	11.20	11.50	1	
		36	0	10.33	10.19	10.30	10.50	2	
		36	18	10.30	10.23	10.23	10.50	2	
		36	37	10.39	10.26	10.24	10.50	2	
75		0	10.37	10.32	10.16	10.50	2		
64-QAM		1	0	10.28	10.10	10.14	10.50	2	
		1	36	10.22	10.21	10.23	10.50	2	
		1	74	10.30	10.17	10.15	10.50	2	
		36	0	9.33	9.24	9.21	9.50	3	
		36	18	9.27	9.25	9.20	9.50	3	
		36	37	9.25	9.20	9.30	9.50	3	
75		0	9.29	9.21	9.26	9.50	3		

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LTE Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2575	2595	2615			
Channel			37800	38000	38200			
10	QPSK	1	0	12.32	12.28	12.31	12.50	0
		1	25	12.36	12.22	12.26	12.50	0
		1	49	12.35	12.28	12.32	12.50	0
		25	0	11.22	11.28	11.20	11.50	1
		25	12	11.34	11.15	11.23	11.50	1
		25	25	11.37	11.27	11.31	11.50	1
	16-QAM	50	0	11.31	11.35	11.29	11.50	1
		1	0	11.33	11.20	11.33	11.50	1
		1	25	11.25	11.14	11.28	11.50	1
		1	49	11.24	11.19	11.26	11.50	1
		25	0	10.30	10.18	10.28	10.50	2
		25	12	10.32	10.13	10.15	10.50	2
	64-QAM	25	25	10.38	10.19	10.24	10.50	2
		50	0	10.30	10.28	10.18	10.50	2
		1	0	10.19	10.16	10.21	10.50	2
		1	25	10.39	10.26	10.18	10.50	2
		1	49	10.17	10.22	10.17	10.50	2
		25	0	9.26	9.16	9.26	9.50	3
		25	12	9.24	9.21	9.28	9.50	3
		25	25	9.36	9.14	9.24	9.50	3
Frequency (MHz)			2572.5	2595	2617.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			37775	38000	38225			
5	QPSK	1	0	12.36	12.35	12.31	12.50	0
		1	12	12.33	12.17	12.29	12.50	0
		1	24	12.35	12.22	12.28	12.50	0
		12	0	11.35	11.20	11.22	11.50	1
		12	6	11.24	11.14	11.12	11.50	1
		12	13	11.26	11.28	11.24	11.50	1
	16-QAM	25	0	11.27	11.30	11.22	11.50	1
		1	0	11.27	11.25	11.26	11.50	1
		1	12	11.34	11.26	11.29	11.50	1
		1	24	11.31	11.15	11.28	11.50	1
		12	0	10.32	10.23	10.31	10.50	2
		12	6	10.34	10.16	10.17	10.50	2
	64-QAM	12	13	10.28	10.19	10.30	10.50	2
		25	0	10.29	10.27	10.27	10.50	2
		1	0	10.22	10.25	10.13	10.50	2
		1	12	10.35	10.31	10.28	10.50	2
		1	24	10.25	10.21	10.16	10.50	2
		12	0	9.24	9.11	9.24	9.50	3
		12	6	9.29	9.26	9.19	9.50	3
		12	13	9.33	9.19	9.23	9.50	3
25	0	9.33	9.22	9.25	9.50	3		

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

LTE Band 41											
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			2506	2549.5	2593	2636.5	2680				
Channel			39750	40185	40620	41055	41490				
20	QPSK	1	0	13.75	13.73	13.68	13.75	13.76	14.00	0	
		1	50	13.59	13.64	13.66	13.57	13.66	14.00	0	
		1	99	13.73	13.68	13.63	13.69	13.73	14.00	0	
		50	0	12.72	12.68	12.69	12.72	12.73	13.00	1	
		50	25	12.62	12.58	12.62	12.66	12.66	13.00	1	
		50	50	12.65	12.63	12.65	12.61	12.70	13.00	1	
	16-QAM	100	0	12.57	12.61	12.57	12.67	12.68	13.00	1	
		1	0	12.66	12.64	12.66	12.67	12.69	13.00	1	
		1	50	12.61	12.62	12.67	12.64	12.71	13.00	1	
		1	99	12.70	12.64	12.62	12.63	12.72	13.00	1	
		50	0	11.75	11.73	11.65	11.74	11.66	12.00	2	
		50	25	11.73	11.73	11.63	11.67	11.75	12.00	2	
	64-QAM	50	50	11.65	11.70	11.68	11.72	11.72	12.00	2	
		100	0	11.70	11.64	11.69	11.69	11.66	12.00	2	
		1	0	11.59	11.62	11.60	11.63	11.67	12.00	2	
		1	50	11.71	11.65	11.65	11.73	11.73	12.00	2	
		1	99	11.66	11.67	11.67	11.66	11.72	12.00	2	
		50	0	10.63	10.61	10.63	10.60	10.68	11.00	3	
	Frequency (MHz)			2503.5	2548.25	2593	2637.75	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
	Channel			39725	40172.5	40620	41067.5	41515			
	15	QPSK	1	0	13.66	13.73	13.61	13.67	13.68	14.00	0
			1	36	13.54	13.64	13.59	13.48	13.57	14.00	0
			1	74	13.70	13.67	13.53	13.69	13.73	14.00	0
			36	0	12.68	12.62	12.59	12.65	12.71	13.00	1
36			18	12.57	12.52	12.59	12.62	12.59	13.00	1	
36			37	12.61	12.62	12.55	12.51	12.64	13.00	1	
16-QAM		75	0	12.51	12.60	12.53	12.57	12.64	13.00	1	
		1	0	12.59	12.61	12.56	12.65	12.61	13.00	1	
		1	36	12.59	12.56	12.67	12.64	12.66	13.00	1	
		1	74	12.60	12.64	12.52	12.53	12.65	13.00	1	
		36	0	11.73	11.65	11.63	11.64	11.61	12.00	2	
		36	18	11.66	11.72	11.53	11.59	11.75	12.00	2	
64-QAM		36	37	11.65	11.67	11.64	11.65	11.67	12.00	2	
		75	0	11.67	11.60	11.60	11.61	11.57	12.00	2	
		1	0	11.59	11.54	11.51	11.60	11.62	12.00	2	
		1	36	11.69	11.61	11.64	11.72	11.72	12.00	2	
		1	74	11.62	11.61	11.62	11.57	11.64	12.00	2	
		36	0	10.54	10.52	10.62	10.52	10.62	11.00	3	
Frequency (MHz)			2503.5	2548.25	2593	2637.75	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			39725	40172.5	40620	41067.5	41515				
QPSK		36	18	10.65	10.64	10.55	10.70	10.64	11.00	3	
		36	37	10.64	10.66	10.61	10.58	10.63	11.00	3	
		75	0	10.53	10.62	10.62	10.62	10.68	11.00	3	

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2501	2547	2593	2639	2685			
Channel			39700	40160	40620	41080	41540			
10	QPSK	1	0	13.74	13.69	13.61	13.67	13.74	14.00	0
		1	25	13.49	13.62	13.61	13.54	13.58	14.00	0
		1	49	13.64	13.67	13.62	13.69	13.64	14.00	0
		25	0	12.66	12.60	12.68	12.67	12.66	13.00	1
		25	12	12.60	12.52	12.57	12.60	12.66	13.00	1
	25	25	12.58	12.62	12.62	12.51	12.70	13.00	1	
	50	0	12.53	12.56	12.49	12.59	12.58	13.00	1	
	16-QAM	1	0	12.61	12.54	12.65	12.58	12.60	13.00	1
		1	25	12.61	12.56	12.57	12.54	12.61	13.00	1
		1	49	12.63	12.61	12.62	12.56	12.66	13.00	1
		25	0	11.71	11.68	11.62	11.67	11.62	12.00	2
		25	12	11.66	11.64	11.63	11.57	11.69	12.00	2
	25	25	11.65	11.62	11.60	11.70	11.68	12.00	2	
	50	0	11.62	11.60	11.59	11.66	11.60	12.00	2	
	64-QAM	1	0	11.55	11.60	11.54	11.53	11.59	12.00	2
		1	25	11.68	11.58	11.62	11.63	11.72	12.00	2
		1	49	11.60	11.65	11.62	11.65	11.69	12.00	2
		25	0	10.63	10.60	10.55	10.56	10.60	11.00	3
		25	12	10.70	10.56	10.61	10.64	10.72	11.00	3
	25	25	10.57	10.61	10.56	10.52	10.65	11.00	3	
50	0	10.53	10.55	10.61	10.68	10.66	11.00	3		
Frequency (MHz)			2498.5	2545.75	2593	2640.25	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			39675	40147.5	40620	41092.5	41565			
5	QPSK	1	0	13.66	13.64	13.64	13.69	13.66	14.00	0
		1	12	13.58	13.58	13.63	13.50	13.62	14.00	0
		1	24	13.69	13.59	13.63	13.65	13.72	14.00	0
		12	0	12.62	12.63	12.62	12.65	12.67	13.00	1
		12	6	12.54	12.50	12.53	12.62	12.65	13.00	1
	12	13	12.58	12.56	12.59	12.60	12.69	13.00	1	
	25	0	12.49	12.56	12.47	12.59	12.64	13.00	1	
	16-QAM	1	0	12.57	12.60	12.58	12.62	12.62	13.00	1
		1	12	12.61	12.57	12.57	12.57	12.65	13.00	1
		1	24	12.60	12.62	12.56	12.63	12.64	13.00	1
		12	0	11.71	11.65	11.60	11.70	11.66	12.00	2
		12	6	11.73	11.67	11.57	11.67	11.69	12.00	2
	12	13	11.64	11.61	11.60	11.72	11.68	12.00	2	
	25	0	11.61	11.55	11.60	11.64	11.60	12.00	2	
	64-QAM	1	0	11.56	11.59	11.52	11.57	11.64	12.00	2
		1	12	11.61	11.56	11.57	11.66	11.64	12.00	2
		1	24	11.59	11.65	11.62	11.61	11.63	12.00	2
		12	0	10.57	10.54	10.56	10.50	10.60	11.00	3
		12	6	10.66	10.60	10.55	10.71	10.72	11.00	3
	12	13	10.59	10.65	10.56	10.51	10.65	11.00	3	
25	0	10.59	10.61	10.68	10.64	10.70	11.00	3		

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LTE Band 41_HPUE											
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			2506	2549.5	2593	2636.5	2680				
Channel			39750	40185	40620	41055	41490				
20	QPSK	1	0	12.68	12.74	12.71	12.75	12.74	13.00	0	
		1	50	12.67	12.71	12.65	12.66	12.68	13.00	0	
		1	99	12.65	12.66	12.70	12.70	12.72	13.00	0	
		50	0	11.74	11.72	11.74	11.74	11.71	12.00	1	
		50	25	11.68	11.66	11.70	11.71	11.68	12.00	1	
		50	50	11.65	11.55	11.68	11.70	11.67	12.00	1	
	16-QAM	100	0	11.72	11.68	11.65	11.74	11.66	12.00	1	
		1	0	11.67	11.66	11.73	11.71	11.68	12.00	1	
		1	50	11.73	11.66	11.70	11.68	11.71	12.00	1	
		1	99	11.66	11.67	11.74	11.74	11.66	12.00	1	
		50	0	10.70	10.55	10.71	10.70	10.72	11.00	2	
		50	25	10.74	10.71	10.67	10.74	10.74	11.00	2	
	64-QAM	50	50	10.66	10.71	10.73	10.73	10.72	11.00	2	
		100	0	10.72	10.55	10.66	10.73	10.69	11.00	2	
		1	0	10.72	10.72	10.70	10.55	10.55	11.00	2	
		1	50	10.68	10.69	10.73	10.72	10.72	11.00	2	
		1	99	10.68	10.69	10.73	10.55	10.72	11.00	2	
		50	0	9.69	9.72	9.69	9.68	9.67	10.00	3	
	Frequency (MHz)			2503.5	2548.25	2593	2637.75	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
	Channel			39725	40172.5	40620	41067.5	41515			
	15	QPSK	1	0	12.63	12.71	12.69	12.66	12.73	13.00	0
			1	36	12.63	12.66	12.58	12.61	12.66	13.00	0
			1	74	12.62	12.58	12.68	12.62	12.71	13.00	0
			36	0	11.66	11.69	11.66	11.68	11.71	12.00	1
36			18	11.68	11.63	11.67	11.62	11.61	12.00	1	
36			37	11.56	11.48	11.63	11.68	11.58	12.00	1	
16-QAM		75	0	11.72	11.61	11.63	11.64	11.60	12.00	1	
		1	0	11.64	11.58	11.63	11.70	11.63	12.00	1	
		1	36	11.70	11.56	11.68	11.60	11.71	12.00	1	
		1	74	11.56	11.66	11.71	11.71	11.59	12.00	1	
		36	0	10.70	10.52	10.64	10.69	10.62	11.00	2	
		36	18	10.65	10.64	10.60	10.65	10.64	11.00	2	
64-QAM		36	37	10.56	10.66	10.67	10.73	10.65	11.00	2	
		75	0	10.64	10.55	10.62	10.71	10.59	11.00	2	
		1	0	10.63	10.72	10.61	10.50	10.47	11.00	2	
		1	36	10.58	10.66	10.69	10.68	10.68	11.00	2	
		1	74	10.62	10.66	10.73	10.53	10.64	11.00	2	
		36	0	9.61	9.62	9.69	9.64	9.63	10.00	3	
Frequency (MHz)			2503.5	2548.25	2593	2637.75	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			39725	40172.5	40620	41067.5	41515				
QPSK		1	0	12.63	12.66	12.58	12.61	12.66	13.00	0	
		1	36	12.63	12.66	12.58	12.61	12.66	13.00	0	
		1	74	12.62	12.58	12.68	12.62	12.71	13.00	0	
		36	0	11.66	11.69	11.66	11.68	11.71	12.00	1	
	36	18	11.68	11.63	11.67	11.62	11.61	12.00	1		
	36	37	11.56	11.48	11.63	11.68	11.58	12.00	1		
16-QAM	75	0	11.72	11.61	11.63	11.64	11.60	12.00	1		
	1	0	11.64	11.58	11.63	11.70	11.63	12.00	1		
	1	36	11.70	11.56	11.68	11.60	11.71	12.00	1		
	1	74	11.56	11.66	11.71	11.71	11.59	12.00	1		
	36	0	10.70	10.52	10.64	10.69	10.62	11.00	2		
	36	18	10.65	10.64	10.60	10.65	10.64	11.00	2		
64-QAM	36	37	10.56	10.66	10.67	10.73	10.65	11.00	2		
	75	0	10.64	10.55	10.62	10.71	10.59	11.00	2		
	1	0	10.63	10.72	10.61	10.50	10.47	11.00	2		
	1	36	10.58	10.66	10.69	10.68	10.68	11.00	2		
	1	74	10.62	10.66	10.73	10.53	10.64	11.00	2		
	36	0	9.61	9.62	9.69	9.64	9.63	10.00	3		
Frequency (MHz)			2503.5	2548.25	2593	2637.75	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			39725	40172.5	40620	41067.5	41515				
QPSK	1	0	12.63	12.66	12.58	12.61	12.66	13.00	0		
	1	36	12.63	12.66	12.58	12.61	12.66	13.00	0		
	1	74	12.62	12.58	12.68	12.62	12.71	13.00	0		
	36	0	11.66	11.69	11.66	11.68	11.71	12.00	1		
	36	18	11.68	11.63	11.67	11.62	11.61	12.00	1		
	36	37	11.56	11.48	11.63	11.68	11.58	12.00	1		
16-QAM	75	0	11.72	11.61	11.63	11.64	11.60	12.00	1		
	1	0	11.64	11.58	11.63	11.70	11.63	12.00	1		
	1	36	11.70	11.56	11.68	11.60	11.71	12.00	1		
	1	74	11.56	11.66	11.71	11.71	11.59	12.00	1		
	36	0	10.70	10.52	10.64	10.69	10.62	11.00	2		
	36	18	10.65	10.64	10.60	10.65	10.64	11.00	2		
64-QAM	36	37	10.56	10.66	10.67	10.73	10.65	11.00	2		
	75	0	10.64	10.55	10.62	10.71	10.59	11.00	2		
	1	0	10.63	10.72	10.61	10.50	10.47	11.00	2		
	1	36	10.58	10.66	10.69	10.68	10.68	11.00	2		
	1	74	10.62	10.66	10.73	10.53	10.64	11.00	2		
	36	0	9.61	9.62	9.69	9.64	9.63	10.00	3		
Frequency (MHz)			2503.5	2548.25	2593	2637.75	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			39725	40172.5	40620	41067.5	41515				
QPSK	1	0	12.63	12.66	12.58	12.61	12.66	13.00	0		
	1	36	12.63	12.66	12.58	12.61	12.66	13.00	0		
	1	74	12.62	12.58	12.68	12.62	12.71	13.00	0		
	36	0	11.66	11.69	11.66	11.68	11.71	12.00	1		
	36	18	11.68	11.63	11.67	11.62	11.61	12.00	1		
	36	37	11.56	11.48	11.63	11.68	11.58	12.00	1		
16-QAM	75	0	11.72	11.61	11.63	11.64	11.60	12.00	1		
	1	0	11.64	11.58	11.63	11.70	11.63	12.00	1		
	1	36	11.70	11.56	11.68	11.60	11.71	12.00	1		
	1	74	11.56	11.66	11.71	11.71	11.59	12.00	1		
	36	0	10.70	10.52	10.64	10.69	10.62	11.00	2		
	36	18	10.65	10.64	10.60	10.65	10.64	11.00	2		
64-QAM	36	37	10.56	10.66	10.67	10.73	10.65	11.00	2		
	75	0	10.64	10.55	10.62	10.71	10.59	11.00	2		
	1	0	10.63	10.72	10.61	10.50	10.47	11.00	2		
	1	36	10.58	10.66	10.69	10.68	10.68	11.00	2		
	1	74	10.62	10.66	10.73	10.53	10.64	11.00	2		
	36	0	9.61	9.62	9.69	9.64	9.63	10.00	3		

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LTE Band 41_HPUE											
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			2501	2547	2593	2639	2685				
Channel			39700	40160	40620	41080	41540				
10	QPSK	1	0	12.63	12.74	12.69	12.68	12.66	13.00	0	
		1	25	12.64	12.62	12.63	12.61	12.59	13.00	0	
		1	49	12.59	12.57	12.67	12.65	12.62	13.00	0	
		25	0	11.69	11.68	11.70	11.64	11.68	12.00	1	
		25	12	11.64	11.60	11.63	11.69	11.62	12.00	1	
		25	25	11.55	11.46	11.65	11.65	11.67	12.00	1	
	16-QAM	50	0	11.63	11.59	11.62	11.73	11.66	12.00	1	
		1	0	11.62	11.64	11.68	11.62	11.61	12.00	1	
		1	25	11.73	11.65	11.68	11.65	11.69	12.00	1	
		1	49	11.64	11.59	11.72	11.70	11.64	12.00	1	
		25	0	10.62	10.50	10.62	10.69	10.64	11.00	2	
		25	12	10.74	10.67	10.67	10.64	10.73	11.00	2	
		25	25	10.58	10.63	10.65	10.68	10.72	11.00	2	
		50	0	10.72	10.49	10.57	10.70	10.66	11.00	2	
		64-QAM	1	0	10.64	10.70	10.69	10.51	10.49	11.00	2
	1		25	10.66	10.59	10.65	10.66	10.66	11.00	2	
	1		49	10.60	10.60	10.66	10.54	10.72	11.00	2	
	25		0	9.66	9.66	9.67	9.67	9.65	10.00	3	
	25		12	9.58	9.61	9.63	9.61	9.60	10.00	3	
	25		25	9.62	9.68	9.64	9.65	9.69	10.00	3	
	Frequency (MHz)			2498.5	2545.75	2593	2640.25	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
	Channel			39675	40147.5	40620	41092.5	41565			
	5	QPSK	1	0	12.65	12.68	12.63	12.71	12.70	13.00	0
			1	12	12.60	12.71	12.55	12.57	12.61	13.00	0
			1	24	12.63	12.66	12.65	12.62	12.65	13.00	0
12			0	11.72	11.65	11.72	11.65	11.71	12.00	1	
12			6	11.64	11.65	11.62	11.67	11.62	12.00	1	
12			13	11.59	11.46	11.68	11.67	11.63	12.00	1	
16-QAM		25	0	11.70	11.68	11.60	11.72	11.56	12.00	1	
		1	0	11.64	11.61	11.67	11.66	11.60	12.00	1	
		1	12	11.66	11.60	11.60	11.68	11.70	12.00	1	
		1	24	11.60	11.59	11.72	11.69	11.65	12.00	1	
		12	0	10.64	10.52	10.67	10.70	10.66	11.00	2	
		12	6	10.66	10.64	10.57	10.65	10.67	11.00	2	
		12	13	10.57	10.66	10.72	10.63	10.66	11.00	2	
		25	0	10.72	10.47	10.66	10.71	10.62	11.00	2	
		64-QAM	1	0	10.72	10.63	10.69	10.47	10.53	11.00	2
1			12	10.64	10.61	10.71	10.67	10.69	11.00	2	
1			24	10.64	10.62	10.65	10.48	10.71	11.00	2	
12			0	9.65	9.64	9.67	9.60	9.66	10.00	3	
12			6	9.62	9.65	9.64	9.61	9.64	10.00	3	
12			13	9.63	9.60	9.58	9.68	9.65	10.00	3	
Frequency (MHz)			2498.5	2545.75	2593	2640.25	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			39675	40147.5	40620	41092.5	41565				
5		QPSK	1	0	12.65	12.68	12.63	12.71	12.70	13.00	0
			1	12	12.60	12.71	12.55	12.57	12.61	13.00	0
			1	24	12.63	12.66	12.65	12.62	12.65	13.00	0
	12		0	11.72	11.65	11.72	11.65	11.71	12.00	1	
	12		6	11.64	11.65	11.62	11.67	11.62	12.00	1	
	12		13	11.59	11.46	11.68	11.67	11.63	12.00	1	
	16-QAM	25	0	11.70	11.68	11.60	11.72	11.56	12.00	1	
		1	0	11.64	11.61	11.67	11.66	11.60	12.00	1	
		1	12	11.66	11.60	11.60	11.68	11.70	12.00	1	
		1	24	11.60	11.59	11.72	11.69	11.65	12.00	1	
		12	0	10.64	10.52	10.67	10.70	10.66	11.00	2	
		12	6	10.66	10.64	10.57	10.65	10.67	11.00	2	
		12	13	10.57	10.66	10.72	10.63	10.66	11.00	2	
		25	0	10.72	10.47	10.66	10.71	10.62	11.00	2	
		64-QAM	1	0	10.72	10.63	10.69	10.47	10.53	11.00	2
	1		12	10.64	10.61	10.71	10.67	10.69	11.00	2	
	1		24	10.64	10.62	10.65	10.48	10.71	11.00	2	
	12		0	9.65	9.64	9.67	9.60	9.66	10.00	3	
	12		6	9.62	9.65	9.64	9.61	9.64	10.00	3	
	12		13	9.63	9.60	9.58	9.68	9.65	10.00	3	
	Frequency (MHz)			2498.5	2545.75	2593	2640.25	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
	Channel			39675	40147.5	40620	41092.5	41565			
	5	QPSK	1	0	12.65	12.68	12.63	12.71	12.70	13.00	0
			1	12	12.60	12.71	12.55	12.57	12.61	13.00	0
			1	24	12.63	12.66	12.65	12.62	12.65	13.00	0
12			0	11.72	11.65	11.72	11.65	11.71	12.00	1	
12			6	11.64	11.65	11.62	11.67	11.62	12.00	1	
12			13	11.59	11.46	11.68	11.67	11.63	12.00	1	
16-QAM		25	0	11.70	11.68	11.60	11.72	11.56	12.00	1	
		1	0	11.64	11.61	11.67	11.66	11.60	12.00	1	
		1	12	11.66	11.60	11.60	11.68	11.70	12.00	1	
		1	24	11.60	11.59	11.72	11.69	11.65	12.00	1	
		12	0	10.64	10.52	10.67	10.70	10.66	11.00	2	
		12	6	10.66	10.64	10.57	10.65	10.67	11.00	2	
		12	13	10.57	10.66	10.72	10.63	10.66	11.00	2	
		25	0	10.72	10.47	10.66	10.71	10.62	11.00	2	
		64-QAM	1	0	10.72	10.63	10.69	10.47	10.53	11.00	2
1			12	10.64	10.61	10.71	10.67	10.69	11.00	2	
1			24	10.64	10.62	10.65	10.48	10.71	11.00	2	
12			0	9.65	9.64	9.67	9.60	9.66	10.00	3	
12			6	9.62	9.65	9.64	9.61	9.64	10.00	3	
12			13	9.63	9.60	9.58	9.68	9.65	10.00	3	
Frequency (MHz)			2498.5	2545.75	2593	2640.25	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			39675	40147.5	40620	41092.5	41565				

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**WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) conducted power table:**

Band \ Antenna	SISO		MIMO
	Main	Aux	Main + Aux
WLAN802.11b	V	V	-
WLAN802.11g	V	V	-
WLAN802.11n(20M)	V	V	V
WLAN802.11n(40M)	V	V	V
WLAN802.11a	V	V	-
WLAN802.11n(20M) 5G	V	V	V
WLAN802.11n(40M) 5G	V	V	V
WLAN802.11ac(20M) 5G	V	V	V
WLAN802.11ac(40M) 5G	V	V	V
WLAN802.11ac(80M) 5G	V	V	V

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**Full power (NB&TB mode)**
**Main**

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	18.00	17.71
		2	2417		18.00	17.87
		6	2437		18.00	17.73
		10	2457		18.00	17.87
		11	2462		16.60	16.23
		12	2467		16.50	16.38
		13	2472		14.90	14.19
	802.11g	1	2412	6Mbps	16.10	15.41
		2	2417		17.80	17.13
		6	2437		18.00	17.77
		10	2457		17.20	16.51
		11	2462		15.00	14.29
		12	2467		13.80	13.10
		13	2472		2.60	1.92
	802.11n20-HTO	1	2412	MCS0	14.80	14.23
		2	2417		17.60	17.03
		6	2437		18.00	17.51
		10	2457		17.00	16.44
		11	2462		14.90	14.32
		12	2467		12.30	11.73
	802.11ac20-HTO	1	2412	MCS0	14.70	14.14
		2	2417		16.70	16.58
		6	2437		17.60	17.49
		10	2457		16.90	16.38
		11	2462		14.80	14.29
		12	2467		12.20	11.65
	802.11n40-HTO	3	2422	MCS0	14.20	13.91
		4	2427		16.50	16.14
		6	2437		16.50	16.23
		8	2447		14.10	13.81
		9	2452		13.40	13.06
		10	2457		6.90	6.61
	802.11ac40-Hto	11	2462	MCS0	-0.70	-0.99
		3	2422		14.20	13.77
		4	2427		16.50	16.11
		6	2437		16.50	16.17
		8	2447		14.10	13.77
		9	2452		13.40	13.05
			10	2457	6.90	6.54
			11	2462	-0.70	-1.13

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	17.40	17.13
		40	5200		18.00	17.70
		44	5220		18.00	17.44
		48	5240		18.00	17.77
	802.11n20-HTO	36	5180	MCS0	17.10	16.90
		40	5200		17.60	17.46
		44	5220		17.40	17.17
	802.11ac20-VHTO	48	5240	MCS0	17.60	17.40
		36	5180		16.90	16.69
		40	5200		17.50	17.33
		44	5220		17.10	16.82
	802.11n40-HTO	48	5240	MCS0	17.50	17.39
		38	5190		14.30	14.17
	802.11ac40-VHTO	46	5230	MCS0	17.40	17.24
		38	5190		14.10	13.96
	46	5230	MCS0	17.30	17.06	
802.11ac80-VHTO	42	5210	MCS0	12.50	12.33	

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	18.00	17.81
		56	5280		18.00	17.66
		60	5300		18.00	17.89
		64	5320		16.90	16.64
	802.11n20-HTO	52	5260	MCS0	17.80	17.57
		56	5280		17.80	17.66
		60	5300		17.80	17.58
	802.11ac20-VHTO	64	5320	MCS0	16.90	16.61
		52	5260		17.80	17.53
		56	5280		17.80	17.58
	802.11n40-HTO	60	5300	MCS0	17.70	17.52
		64	5320		16.80	16.59
		54	5270		17.70	17.48
	802.11ac40-VHTO	62	5310	MCS0	10.80	10.57
		54	5270		17.60	17.43
	62	5310	MCS0	10.60	10.45	
802.11ac80-VHTO	58	5290	MCS0	11.20	10.97	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	17.50	17.26
		104	5520		17.90	17.60
		116	5580		17.90	17.66
		120	5600		17.90	17.55
		136	5680		17.90	17.54
		140	5700		16.60	16.37
		144	5720		17.30	17.07
	802.11n20-HT0	100	5500	MCS0	17.50	17.27
		104	5520		17.90	17.58
		116	5580		17.90	17.70
		120	5600		17.90	17.60
		136	5680		17.90	17.56
		140	5700		16.60	16.49
	802.11ac20-VHT0	100	5500	MCS0	17.10	16.94
		104	5520		17.40	16.88
		116	5580		17.40	17.16
		120	5600		17.40	16.79
		136	5680		17.40	16.77
		140	5700		16.50	16.33
	802.11n40-HT0	102	5510	MCS0	15.30	15.11
		110	5550		18.00	17.90
		118	5590		18.00	17.83
		134	5670		17.60	17.42
		142	5710		18.00	17.81
	802.11ac40-VHT0	102	5510	MCS0	15.20	15.07
		110	5550		18.00	17.83
		118	5590		18.00	17.64
		134	5670		17.50	17.30
	802.11ac80-VHT0	106	5530	MCS0	12.60	12.43
		122	5610		18.00	17.86
		138	5690		18.00	17.96

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	18.00	17.94
		157	5785		18.00	17.93
		165	5825		18.00	17.99
	802.11n20-HTO	149	5745	MCS0	18.00	17.93
		157	5785		18.00	17.81
		165	5825		18.00	17.91
	802.11ac20-VHT0	149	5745	MCS0	18.00	17.88
		157	5785		18.00	17.79
		165	5825		18.00	17.78
	802.11n40-HTO	151	5755	MCS0	18.00	17.93
		159	5795		18.00	17.94
	802.11ac40-VHT0	151	5755	MCS0	18.00	17.86
		159	5795		18.00	17.89
	802.11ac80-VHT0	155	5775	MCS0	18.00	17.93

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**Aux**

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	18.00	17.95
		2	2417		18.00	17.91
		6	2437		18.00	17.77
		10	2457		18.00	17.90
		11	2462		16.90	16.56
		12	2467		17.00	16.69
		13	2472		15.50	15.45
	802.11g	1	2412	6Mbps	16.90	16.46
		2	2417		18.00	17.88
		6	2437		18.00	17.85
		10	2457		17.70	17.55
		11	2462		15.90	15.55
		12	2467		14.70	14.54
		13	2472		3.50	3.36
	802.11n20-HT0	1	2412	MCS0	15.60	15.32
		2	2417		18.00	17.72
		6	2437		18.00	17.82
		10	2457		17.80	17.60
		11	2462		15.80	15.60
		12	2467		12.90	12.56
		13	2472		4.60	4.51
	802.11ac20-HT0	1	2412	MCS0	15.60	15.24
		2	2417		18.00	17.85
		6	2437		17.70	17.58
		10	2457		17.70	17.59
		11	2462		15.70	15.58
		12	2467		12.90	12.39
		13	2472		4.60	4.41
	802.11n40-HT0	3	2422	MCS0	14.20	14.18
		4	2427		16.80	16.76
		6	2437		16.80	16.71
		8	2447		14.60	14.56
		9	2452		13.70	13.57
		10	2457		7.10	6.79
		11	2462		-0.50	-0.57
	802.11ac40-Hto	3	2422	MCS0	14.20	14.14
		4	2427		16.80	16.75
		6	2437		16.80	16.64
		8	2447		14.60	14.54
		9	2452		13.70	13.53
		10	2457		7.10	6.70
		11	2462		-0.50	-0.78

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	17.80	17.50
		40	5200		18.00	17.88
		44	5220		18.00	17.90
		48	5240		18.00	18.00
	802.11n20-HT0	36	5180	MCS0	18.00	17.65
		40	5200		18.00	17.50
		44	5220		18.00	17.74
	802.11ac20-VHT0	48	5240	MCS0	18.00	17.91
		36	5180		18.00	17.83
		40	5200		18.00	17.50
		44	5220		18.00	17.77
	802.11n40-HT0	48	5240	MCS0	18.00	17.91
		38	5190		15.10	14.79
	802.11ac40-VHT0	46	5230	MCS0	18.00	17.79
38		5190	15.00		14.83	
46	5230	MCS0	18.00	17.41		
802.11ac80-VHT0	42	5210	MCS0	12.80	12.74	

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	18.00	17.98
		56	5280		18.00	17.93
		60	5300		18.00	17.92
		64	5320		17.60	17.17
	802.11n20-HT0	52	5260	MCS0	18.00	17.93
		56	5280		18.00	17.40
		60	5300		18.00	17.91
		64	5320		17.60	17.11
	802.11ac20-VHT0	52	5260	MCS0	18.00	17.92
		56	5280		18.00	17.40
		60	5300		18.00	17.92
		64	5320		17.50	17.06
	802.11n40-HT0	54	5270	MCS0	18.00	17.99
		62	5310		11.10	10.88
	802.11ac40-VHT0	54	5270	MCS0	18.00	17.60
		62	5310		11.00	10.86
802.11ac80-VHT0	58	5290	MCS0	11.80	11.69	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	18.00	17.67
		104	5520		18.00	17.88
		116	5580		17.70	17.50
		120	5600		18.00	17.76
		136	5680		18.00	17.69
		140	5700		16.30	16.27
		144	5720		17.10	16.81
	802.11n20-HT0	100	5500	MCS0	18.00	17.58
		104	5520		18.00	17.50
		116	5580		17.70	17.44
		120	5600		18.00	17.50
		136	5680		18.00	17.53
		140	5700		16.30	16.29
	802.11ac20-VHT0	100	5500	MCS0	17.60	17.44
		104	5520		18.00	17.44
		116	5580		17.30	16.92
		120	5600		18.00	17.40
		136	5680		18.00	17.47
		140	5700		16.10	15.71
	802.11n40-HT0	102	5510	MCS0	17.30	16.79
		110	5550		16.20	16.05
		118	5590		17.80	17.71
		134	5670		17.80	17.70
		142	5710		17.20	17.09
	802.11ac40-VHT0	102	5510	MCS0	17.50	17.18
		110	5550		16.00	15.96
		118	5590		17.70	17.61
		134	5670		17.70	17.26
		142	5710		17.10	17.05
	802.11ac80-VHT0	106	5530	MCS0	17.20	17.16
122		5610	13.00		12.81	
138		5690	17.60		17.51	
					17.50	17.16

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	17.40	17.07
		157	5785		17.50	17.14
		165	5825		17.30	16.98
	802.11n20-HTO	149	5745	MCS0	17.50	17.47
		157	5785		17.60	17.17
		165	5825		17.50	17.33
	802.11ac20-VHT0	149	5745	MCS0	17.40	17.04
		157	5785		17.40	17.14
		165	5825		17.40	17.29
	802.11n40-HTO	151	5755	MCS0	17.30	16.90
		159	5795		17.30	17.01
	802.11ac40-VHT0	151	5755	MCS0	17.00	16.86
		159	5795		17.30	17.06
	802.11ac80-VHT0	155	5775	MCS0	17.30	16.97

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**Reduced power(TB mode)**
**Main**

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	17.00	16.88
		2	2417		17.00	16.91
		6	2437		17.00	16.92
		10	2457		17.00	16.68
		11	2462		16.60	16.23
		12	2467		16.50	16.38
		13	2472		14.90	14.19
	802.11g	1	2412	6Mbps	16.10	15.41
		2	2417		17.00	16.89
		6	2437		17.00	16.75
		10	2457		17.00	16.75
		11	2462		15.00	14.29
		12	2467		13.80	13.10
		13	2472		2.60	1.92
	802.11n20-HTO	1	2412	MCS0	14.80	14.23
		2	2417		17.00	16.66
		6	2437		17.00	16.63
		10	2457		17.00	16.75
		11	2462		14.90	14.32
		12	2467		12.30	11.73
	802.11ac20-HTO	1	2412	MCS0	14.70	14.14
		2	2417		16.70	16.58
		6	2437		17.00	16.71
		10	2457		16.90	16.38
		11	2462		14.80	14.29
		12	2467		12.20	11.65
	802.11n40-HTO	3	2422	MCS0	14.20	13.91
		4	2427		16.50	16.14
		6	2437		16.50	16.23
		8	2447		14.10	13.81
		9	2452		13.40	13.06
		10	2457		6.90	6.61
	802.11ac40-Hto	11	2462	MCS0	-0.70	-0.99
3		2422	14.20		13.77	
4		2427	16.50		16.11	
6		2437	16.50		16.17	
8		2447	14.10		13.77	
9		2452	13.40		13.05	
		10	2457	6.90	6.54	
		11	2462	-0.70	-1.13	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.00	14.64
		40	5200		15.00	14.67
		44	5220		15.00	14.89
		48	5240		15.00	14.87
	802.11n20-HTO	36	5180	MCS0	15.00	14.72
		40	5200		15.00	14.64
		44	5220		15.00	14.63
		48	5240		15.00	14.64
	802.11ac20-VHTO	36	5180	MCS0	15.00	14.52
		40	5200		15.00	14.71
		44	5220		15.00	14.71
		48	5240		15.00	14.60
	802.11n40-HTO	38	5190	MCS0	14.30	14.17
		46	5230		15.00	14.76
	802.11ac40-VHTO	38	5190	MCS0	14.10	13.96
		46	5230		15.00	14.73
802.11ac80-VHTO	42	5210	MCS0	12.50	12.33	

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	15.00	14.82
		56	5280		15.00	14.82
		60	5300		15.00	14.65
		64	5320		15.00	14.93
	802.11n20-HTO	52	5260	MCS0	15.00	14.79
		56	5280		15.00	14.75
		60	5300		15.00	14.74
		64	5320		15.00	14.66
	802.11ac20-VHTO	52	5260	MCS0	15.00	14.63
		56	5280		15.00	14.68
		60	5300		15.00	14.71
		64	5320		15.00	14.68
	802.11n40-HTO	54	5270	MCS0	15.00	14.73
		62	5310		10.80	10.57
	802.11ac40-VHTO	54	5270	MCS0	15.00	14.70
		62	5310		10.60	10.45
802.11ac80-VHTO	58	5290	MCS0	11.20	10.97	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	15.00	14.73
		104	5520		15.00	14.58
		116	5580		15.00	14.67
		120	5600		15.00	14.69
		136	5680		15.00	14.79
		140	5700		15.00	14.64
		144	5720		15.00	14.50
	802.11n20-HTO	100	5500	MCS0	15.00	14.42
		104	5520		15.00	14.58
		116	5580		15.00	14.68
		120	5600		15.00	14.62
		136	5680		15.00	14.72
		140	5700		15.00	14.68
		144	5720		15.00	14.68
	802.11ac20-VHTO	100	5500	MCS0	15.00	14.78
		104	5520		15.00	14.79
		116	5580		15.00	14.73
		120	5600		15.00	14.59
		136	5680		15.00	14.58
		140	5700		15.00	14.64
		144	5720		15.00	14.59
	802.11n40-HTO	102	5510	MCS0	15.00	14.96
		110	5550		15.00	14.64
		118	5590		15.00	14.93
		134	5670		15.00	14.81
		142	5710		15.00	14.66
	802.11ac40-VHTO	102	5510	MCS0	15.00	14.76
		110	5550		15.00	14.62
		118	5590		15.00	14.58
		134	5670		15.00	14.68
142		5710	15.00		14.74	
802.11ac80-VHTO	106	5530	MCS0	12.60	12.43	
	122	5610		15.00	14.90	
	138	5690		15.00	14.99	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	15.00	14.64
		157	5785		15.00	14.65
		165	5825		15.00	14.53
	802.11n20-HTO	149	5745	MCS0	15.00	14.62
		157	5785		15.00	14.53
		165	5825		15.00	14.54
	802.11ac20-VHT0	149	5745	MCS0	15.00	14.66
		157	5785		15.00	14.68
		165	5825		15.00	14.57
	802.11n40-HTO	151	5755	MCS0	15.00	14.69
		159	5795		15.00	14.82
	802.11ac40-VHT0	151	5755	MCS0	15.00	14.76
		159	5795		15.00	14.53
	802.11ac80-VHT0	155	5775	MCS0	15.00	14.85

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**Aux**

Aux Antenna							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
2450 MHz	802.11b	1	2412	1Mbps	17.00	16.88	
		2	2417		17.00	16.90	
		6	2437		17.00	16.91	
		10	2457		17.00	16.99	
		11	2462		16.90	16.56	
		12	2467		17.00	16.69	
		13	2472		15.50	15.45	
	802.11g	1	2412	6Mbps	16.90	16.46	
		2	2417		17.00	16.65	
		6	2437		17.00	16.61	
		10	2457		17.00	16.68	
		11	2462		15.90	15.55	
		12	2467		14.70	14.54	
		13	2472		3.50	3.36	
	802.11n20-HT0	1	2412	MCS0	15.60	15.32	
		2	2417		17.00	16.54	
		6	2437		17.00	16.69	
		10	2457		17.00	16.68	
		11	2462		15.80	15.60	
		12	2467		12.90	12.56	
	802.11ac20-HT0	1	2412	MCS0	15.60	15.24	
		2	2417		17.00	16.71	
		6	2437		17.00	16.62	
		10	2457		17.00	16.57	
		11	2462		15.70	15.58	
		12	2467		12.90	12.39	
	802.11n40-HT0	3	2422	MCS0	14.20	14.18	
		4	2427		16.80	16.76	
		6	2437		16.80	16.71	
		8	2447		14.60	14.56	
		9	2452		13.70	13.57	
		10	2457		7.10	6.79	
	802.11ac40-Hto	3	2422	MCS0	14.20	14.14	
		4	2427		16.80	16.75	
		6	2437		16.80	16.64	
		8	2447		14.60	14.54	
		9	2452		13.70	13.53	
		10	2457		7.10	6.70	
			11	2462		-0.50	-0.78

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.00	14.77
		40	5200		15.00	14.84
		44	5220		15.00	14.90
		48	5240		15.00	14.71
	802.11n20-HTO	36	5180	MCS0	15.00	14.70
		40	5200		15.00	14.67
		44	5220		15.00	14.57
	802.11ac20-VHTO	48	5240	MCS0	15.00	14.58
		36	5180		15.00	14.77
		40	5200		15.00	14.66
		44	5220		15.00	14.68
	802.11n40-HTO	48	5240	MCS0	15.00	14.74
		38	5190		15.00	14.70
	802.11ac40-VHTO	46	5230	MCS0	15.00	14.66
38		5190	15.00		14.83	
802.11ac80-VHTO	46	5230	MCS0	15.00	14.64	
802.11ac80-VHTO	42	5210	MCS0	12.80	12.74	

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	15.00	14.72
		56	5280		15.00	14.95
		60	5300		15.00	14.88
		64	5320		15.00	14.74
	802.11n20-HTO	52	5260	MCS0	15.00	14.46
		56	5280		15.00	14.72
		60	5300		15.00	14.81
		64	5320		15.00	14.73
	802.11ac20-VHTO	52	5260	MCS0	15.00	14.57
		56	5280		15.00	14.55
		60	5300		15.00	14.60
		64	5320		15.00	14.67
	802.11n40-HTO	54	5270	MCS0	15.00	14.50
		62	5310		11.10	10.88
	802.11ac40-VHTO	54	5270	MCS0	15.00	14.49
		62	5310		11.00	10.86
802.11ac80-VHTO	58	5290	MCS0	11.80	11.69	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	15.00	14.76
		104	5520		15.00	14.67
		116	5580		15.00	14.65
		120	5600		15.00	14.63
		136	5680		15.00	14.46
		140	5700		15.00	14.55
		144	5720		15.00	14.62
	802.11n20-HT0	100	5500	MCS0	15.00	14.54
		104	5520		15.00	14.82
		116	5580		15.00	14.74
		120	5600		15.00	14.70
		136	5680		15.00	14.65
		140	5700		15.00	14.56
	802.11ac20-VHT0	100	5500	MCS0	15.00	14.68
		104	5520		15.00	14.67
		116	5580		15.00	14.48
		120	5600		15.00	14.85
		136	5680		15.00	14.76
		140	5700		15.00	14.64
	802.11n40-HT0	102	5510	MCS0	15.00	14.63
		110	5550		15.00	14.76
		118	5590		15.00	14.53
		134	5670		15.00	14.88
		142	5710		15.00	14.91
	802.11ac40-VHT0	102	5510	MCS0	15.00	14.77
		110	5550		15.00	14.62
		118	5590		15.00	14.71
		134	5670		15.00	14.60
		142	5710		15.00	14.55
	802.11ac80-VHT0	106	5530	MCS0	13.00	12.81
122		5610	15.00		14.82	
138		5690	15.00		14.92	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	15.00	14.66
		157	5785		15.00	14.64
		165	5825		15.00	14.52
	802.11n20-HTO	149	5745	MCS0	15.00	14.59
		157	5785		15.00	14.55
		165	5825		15.00	14.70
	802.11ac20-VHTO	149	5745	MCS0	15.00	14.64
		157	5785		15.00	14.84
		165	5825		15.00	14.79
	802.11n40-HTO	151	5755	MCS0	15.00	14.88
		159	5795		15.00	14.96
	802.11ac40-VHTO	151	5755	MCS0	15.00	14.88
		159	5795		15.00	14.75
	802.11ac80-VHTO	155	5775	MCS0	15.00	14.99

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**Bluetooth conducted power table:**

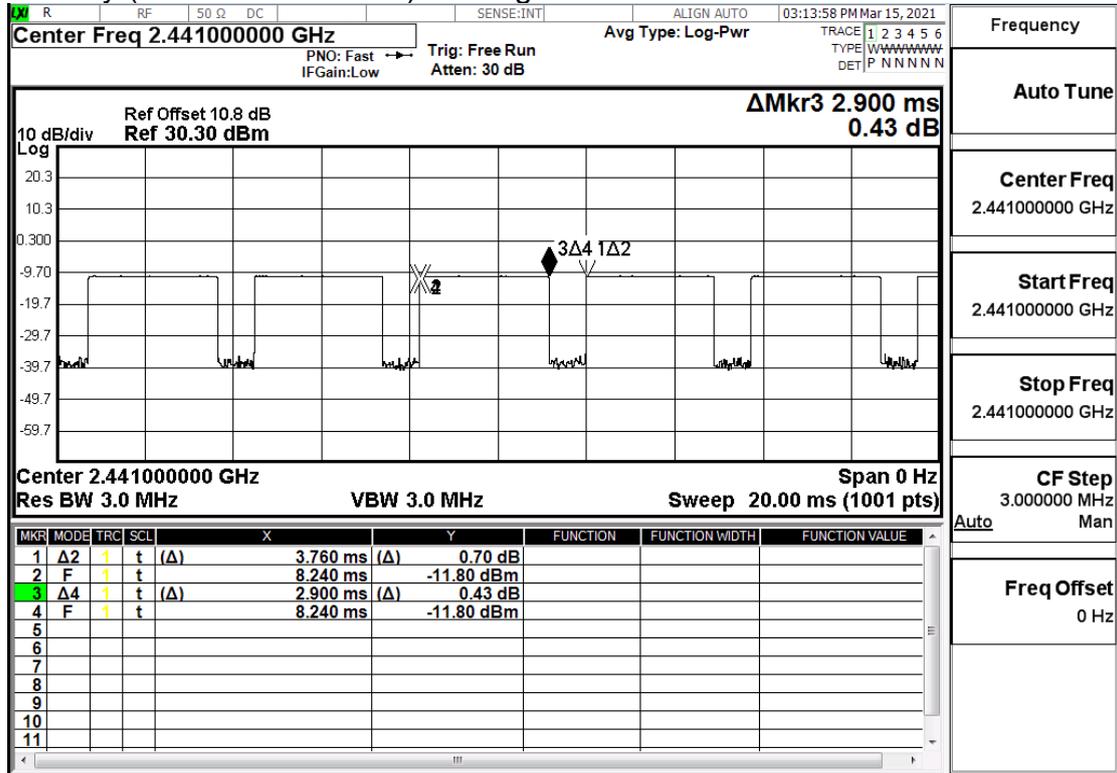
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	10.74	9.24	10.15	8.24	10.19	8.39
	CH 39	2441		10.07		8.35		8.53
	CH 78	2480		9.80		9.13		9.35

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
LE (1Mbps)	CH 00	2402	2	1.73
	CH 19	2440	3.5	3.06
	CH 39	2480	2.5	2.42
LE (2Mbps)	CH 00	2402	2	1.10
	CH 19	2440	3.5	3.05
	CH 39	2480	2.5	1.97

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BT duty (2.900/3.760=0.771) Scaling Factor=1.297

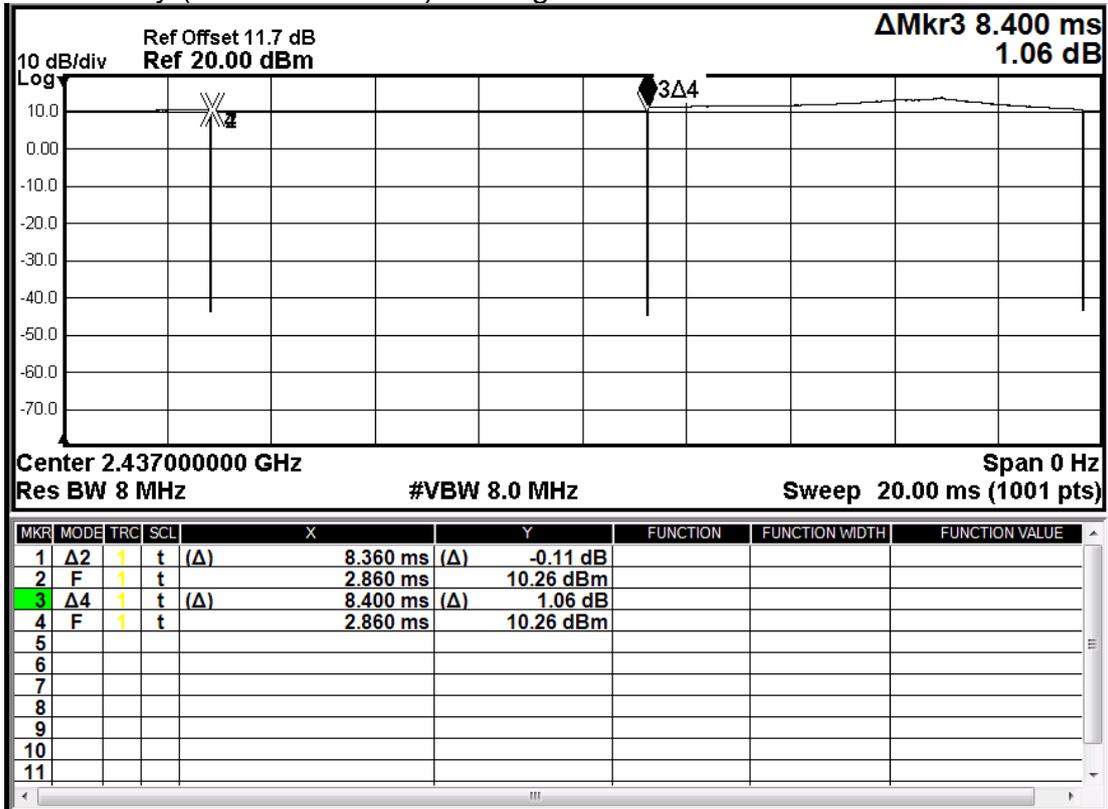


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2.4G b duty (8.36/8.40=0.995) Scaling Factor=1.005

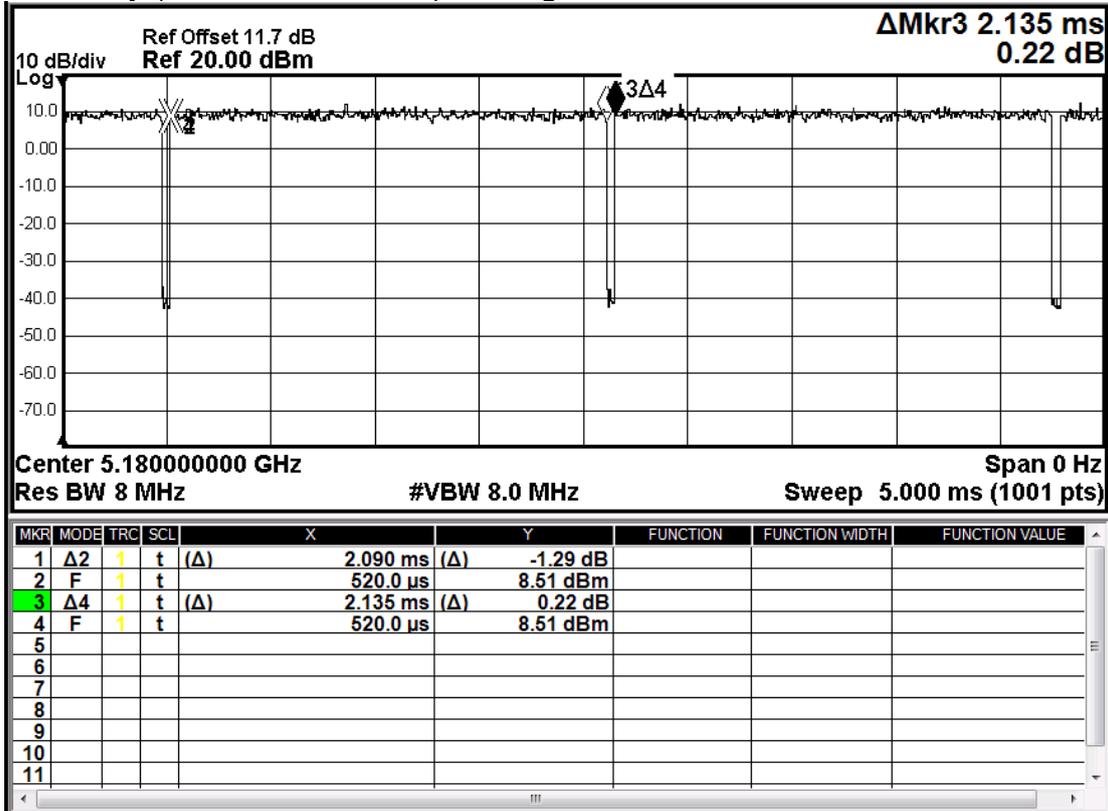


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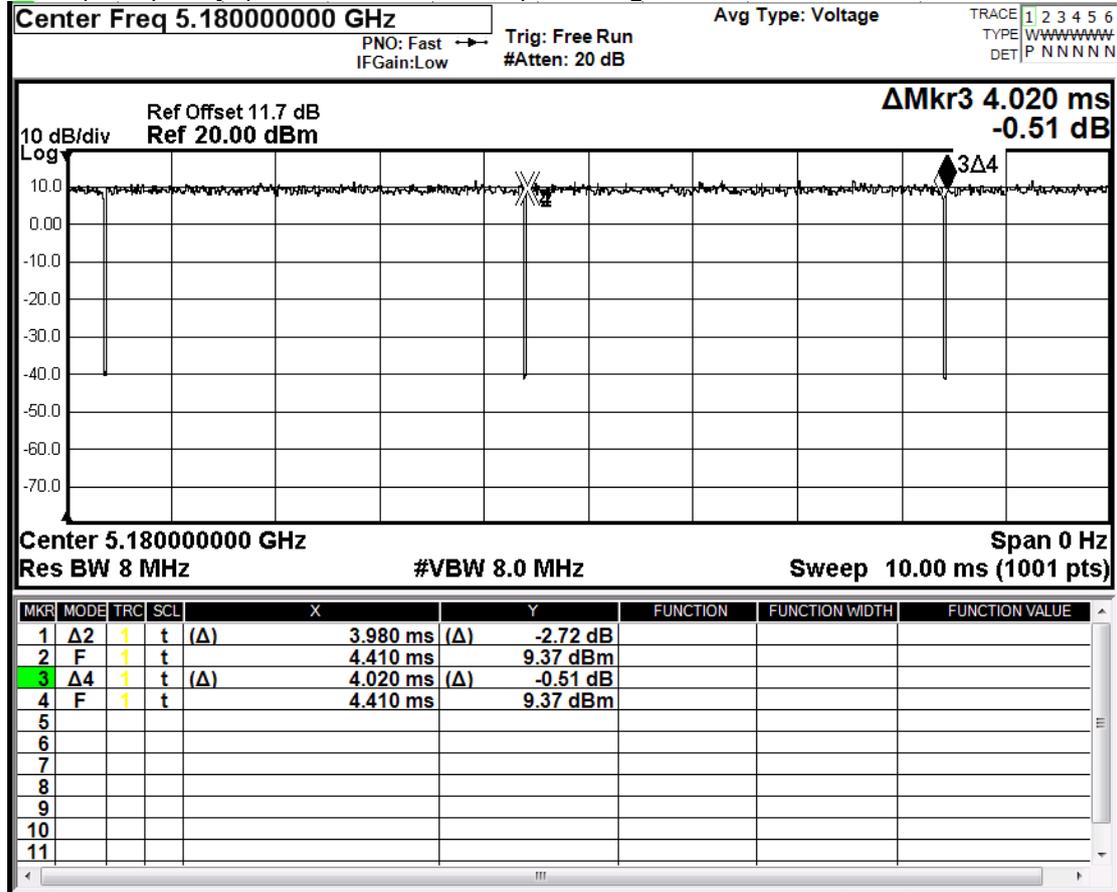
5G a duty (2.090/2.135=0.979) Scaling Factor=1.021



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5G n(20M) duty (3.980/4.020=0.990) Scaling Factor=1.010

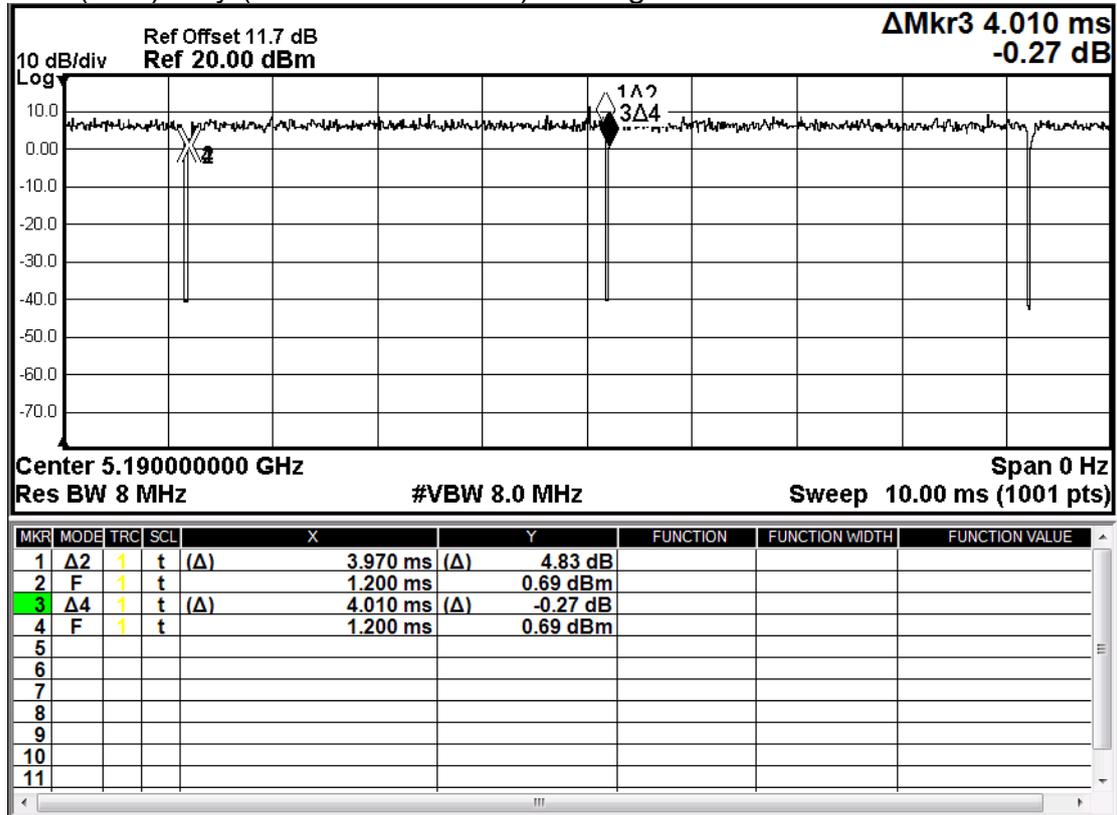


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5G n(40M) duty (3.970/4.010=0.990) Scaling Factor=1.010

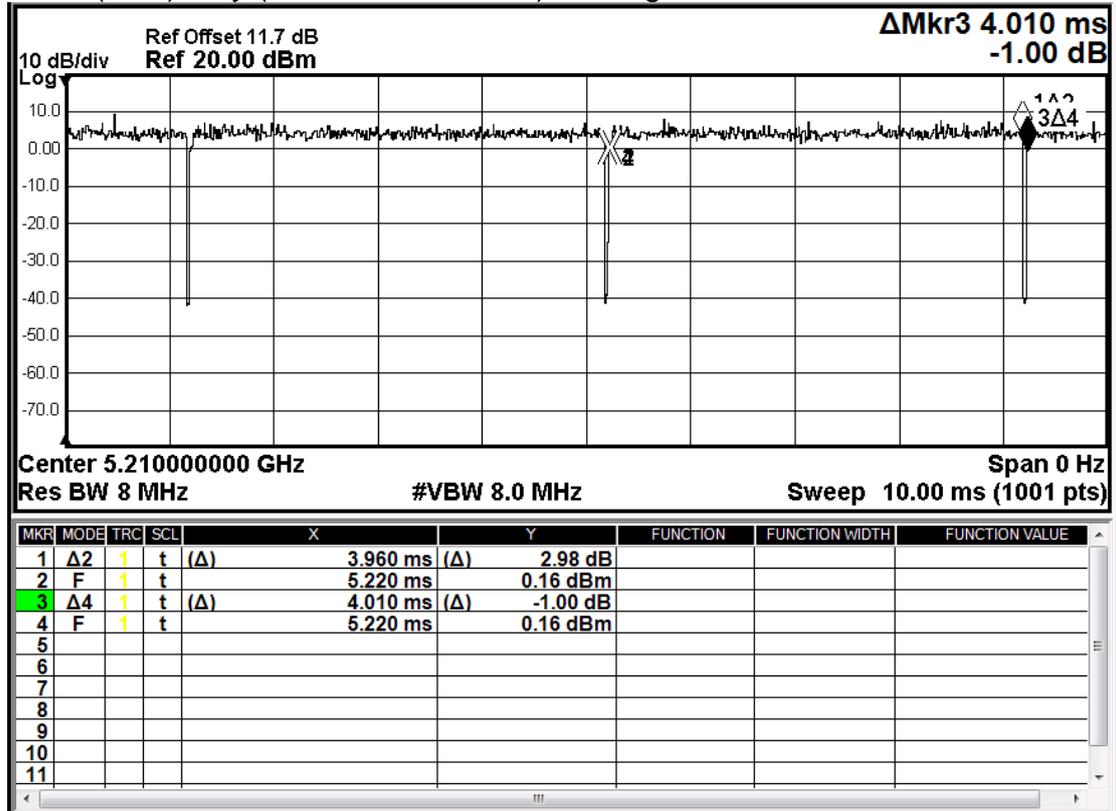


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5G ac(80M) duty (3.960/4.010=0.987) Scaling Factor=1.013



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### 1.3.5 Uplink CA Full Power

CA_7C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2510	20850	1	99	20	QPSK	2529.8	21048	1	0	0	23.16	24.00
20	QPSK	2540.2	21152	1	99	20	QPSK	2560	21350	1	0	0	22.92	24.00

CA_7C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2510	20850	1	99	15	QPSK	2527.1	21021	1	0	0	23.08	24.00
20	QPSK	2560	21350	1	99	15	QPSK	2542.9	21179	1	0	0	22.84	24.00

CA_7C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2507.5	20825	1	74	15	QPSK	2522.5	20975	1	0	0	23.10	24.00
15	QPSK	2562.5	21375	1	74	15	QPSK	2547.5	21225	1	0	0	22.90	24.00

CA_7C														
Combination 75RB + 50RB (15MHz + 10MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2507.5	20825	1	74	10	QPSK	2519.5	20945	1	0	0	23.14	24.00

CA_7C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2510	20850	1	99	10	QPSK	2524.4	20994	1	0	0	23.10	24.00

CA_38C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2580	37850	1	99	20	QPSK	2599.8	38048	1	0	0	23.10	24.00
20	QPSK	2610	38150	1	99	20	QPSK	2590.2	37952	1	0	0	23.09	24.00

CA_38C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2577.5	37825	1	74	15	QPSK	2592.5	37975	1	0	0	23.19	24.00
15	QPSK	2612.5	38175	1	74	15	QPSK	2597.5	38025	1	0	0	23.09	24.00

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CA_41C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	20	QPSK	2525.8	39948	1	0	0	23.29	24.00
20	QPSK	2680	41490	1	99	20	QPSK	2660.2	41292	1	0	0	23.21	24.00

CA_41C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	15	QPSK	2523.1	39921	1	0	0	23.16	24.00
20	QPSK	2680	41490	1	99	15	QPSK	2662.9	41319	1	0	0	23.18	24.00

CA_41C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	15	QPSK	2518.5	39875	1	0	0	23.14	24.00
15	QPSK	2682.5	41515	1	74	15	QPSK	2667.5	41365	1	0	0	23.16	24.00

CA_41C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	10	QPSK	2520.4	39894	1	0	0	23.26	24.00
20	QPSK	2680	41490	1	99	10	QPSK	2665.6	41346	1	0	0	23.19	24.00

CA_41C														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	10	QPSK	2515.5	39845	1	0	0	23.24	24.00
15	QPSK	2682.5	41515	1	74	10	QPSK	2670.5	41395	1	0	0	23.22	24.00

CA_41C														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	5	QPSK	2517.7	39867	1	0	0	23.28	24.00
20	QPSK	2680	41490	1	99	5	QPSK	2668.3	41373	1	0	0	23.24	24.00

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CA_41C_HPUE														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	20	QPSK	2525.8	39948	1	0	0	24.63	26.00
20	QPSK	2680	41490	1	99	20	QPSK	2660.2	41292	1	0	0	24.50	26.00

CA_41C_HPUE														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	15	QPSK	2523.1	39921	1	0	0	24.53	26.00
20	QPSK	2680	41490	1	99	15	QPSK	2662.9	41319	1	0	0	24.44	26.00

CA_41C_HPUE														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	15	QPSK	2518.5	39875	1	0	0	24.56	26.00
15	QPSK	2682.5	41515	1	74	15	QPSK	2667.5	41365	1	0	0	24.42	26.00

CA_41C_HPUE														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	10	QPSK	2520.4	39894	1	0	0	24.61	26.00
20	QPSK	2680	41490	1	99	10	QPSK	2665.6	41346	1	0	0	24.49	26.00

CA_41C_HPUE														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	10	QPSK	2515.5	39845	1	0	0	24.62	26.00
15	QPSK	2682.5	41515	1	74	10	QPSK	2670.5	41395	1	0	0	24.53	26.00

CA_41C_HPUE														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	5	QPSK	2517.7	39867	1	0	0	24.60	26.00
20	QPSK	2680	41490	1	99	5	QPSK	2668.3	41373	1	0	0	24.50	26.00

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Reduced Power

CA_7C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2510	20850	1	99	20	QPSK	2529.8	21048	1	0	12.23	13.00	
20	QPSK	2540.2	21152	1	99	20	QPSK	2560	21350	1	0	12.13	13.00	

CA_7C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2510	20850	1	99	15	QPSK	2527.1	21021	1	0	12.18	13.00	
20	QPSK	2560	21350	1	99	15	QPSK	2542.9	21179	1	0	12.06	13.00	

CA_7C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2507.5	20825	1	74	15	QPSK	2522.5	20975	1	0	12.20	13.00	
15	QPSK	2562.5	21375	1	74	15	QPSK	2547.5	21225	1	0	12.13	13.00	

CA_7C														
Combination 75RB + 50RB (15MHz + 10MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2507.5	20825	1	74	10	QPSK	2519.5	20945	1	0	12.21	13.00	

CA_7C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2510	20850	1	99	10	QPSK	2524.4	20994	1	0	12.20	13.00	

CA_38C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2580	37850	1	99	20	QPSK	2599.8	38048	1	0	12.12	12.50	
20	QPSK	2610	38150	1	99	20	QPSK	2590.2	37952	1	0	12.11	12.50	

CA_38C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2577.5	37825	1	74	15	QPSK	2592.5	37975	1	0	12.12	12.50	
15	QPSK	2612.5	38175	1	74	15	QPSK	2597.5	38025	1	0	12.04	12.50	

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CA_41C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	20	QPSK	2525.8	39948	1	0	0	13.28	14.00
20	QPSK	2680	41490	1	99	20	QPSK	2660.2	41292	1	0	0	13.13	14.00

CA_41C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	15	QPSK	2523.1	39921	1	0	0	13.11	14.00
20	QPSK	2680	41490	1	99	15	QPSK	2662.9	41319	1	0	0	13.12	14.00

CA_41C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	15	QPSK	2518.5	39875	1	0	0	13.14	14.00
15	QPSK	2682.5	41515	1	74	15	QPSK	2667.5	41365	1	0	0	13.06	14.00

CA_41C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	10	QPSK	2520.4	39894	1	0	0	13.16	14.00
20	QPSK	2680	41490	1	99	10	QPSK	2665.6	41346	1	0	0	13.14	14.00

CA_41C														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	10	QPSK	2515.5	39845	1	0	0	13.23	14.00
15	QPSK	2682.5	41515	1	74	10	QPSK	2670.5	41395	1	0	0	13.20	14.00

CA_41C														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	5	QPSK	2517.7	39867	1	0	0	13.24	14.00
20	QPSK	2680	41490	1	99	5	QPSK	2668.3	41373	1	0	0	13.14	14.00

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CA_41C_HPUE														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	20	QPSK	2525.8	39948	1	0	0	12.67	13.00
20	QPSK	2680	41490	1	99	20	QPSK	2660.2	41292	1	0	0	12.63	13.00

CA_41C_HPUE														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	15	QPSK	2523.1	39921	1	0	0	12.54	13.00
20	QPSK	2680	41490	1	99	15	QPSK	2662.9	41319	1	0	0	12.58	13.00

CA_41C_HPUE														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	15	QPSK	2518.5	39875	1	0	0	12.58	13.00
15	QPSK	2682.5	41515	1	74	15	QPSK	2667.5	41365	1	0	0	12.59	13.00

CA_41C_HPUE														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	10	QPSK	2520.4	39894	1	0	0	12.65	13.00
20	QPSK	2680	41490	1	99	10	QPSK	2665.6	41346	1	0	0	12.57	13.00

CA_41C_HPUE														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	10	QPSK	2515.5	39845	1	0	0	12.64	13.00
15	QPSK	2682.5	41515	1	74	10	QPSK	2670.5	41395	1	0	0	12.58	13.00

CA_41C_HPUE														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	5	QPSK	2517.7	39867	1	0	0	12.58	13.00
20	QPSK	2680	41490	1	99	5	QPSK	2668.3	41373	1	0	0	12.54	13.00

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### 1.3.6 LTE Downlink CA specification

#### LTE Downlink 2CA conducted power table

Two Component Carrier Maximum Conducted Power_NB															
PCC Band	PCC Bandwidth [MHz]	PCC				SCC				Power		Configurations			
		PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel		SCC (DL) Frequency [MHz]	LTE Tx.Power with DL CA active (dBm)	LTE Tx.Power with DL CA inactive (dBm)
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B2	5	625	1932.5	23.49	24.00	CA 2A-2A
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B4	20	2175	2132.5	23.44	24.00	CA 2A-4A
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B5	10	2525	881.5	23.50	24.00	CA 2A-5A
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B12	10	5095	737.5	23.51	24.00	CA 2A-12A
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B13	10	5230	751	23.49	24.00	CA 2A-13A
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B14	10	5330	763	23.48	24.00	CA 2A-14A
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B66	20	66886	2155	23.49	24.00	CA 2A-66A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	23.59	24.00	CA 4A-2A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	5	2375	2152.5	23.59	24.00	CA 4A-4A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B5	10	2525	881.5	23.59	24.00	CA 4A-5A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B7	20	3100	2655	23.66	24.00	CA 4A-7A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B12	10	5095	737.5	23.61	24.00	CA 4A-12A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B13	10	5230	751	23.63	24.00	CA 4A-13A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B66	20	66886	2155	23.68	24.00	CA 4A-66A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	23.29	24.00	CA 5A-2A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B4	20	2175	2132.5	23.26	24.00	CA 5A-4A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	5	2425	871.5	23.31	24.00	CA 5A-5A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B7	20	3100	2655	23.31	24.00	CA 5A-7A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B30	10	9820	2355	23.31	24.00	CA 5A-30A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B41	20	40620	2593	23.33	24.00	CA 5A-41A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B66	20	66886	2155	23.27	24.00	CA 5A-66A
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B4	20	2175	2132.5	23.32	24.00	CA 7A-4A
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B5	10	2525	881.5	23.33	24.00	CA 7A-5A
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B66	20	66886	2155	23.27	24.00	CA 7A-66A
LTE B12	10	23130	711	QPSK	1	0	5130	741	LTE B2	20	900	1960	23.41	24.00	CA 12A-2A
LTE B12	10	23130	711	QPSK	1	0	5130	741	LTE B4	20	2175	2132.5	23.44	24.00	CA 12A-4A
LTE B12	10	23130	711	QPSK	1	0	5130	741	LTE B66	20	66886	2155	23.34	24.00	CA 12A-66A
LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	23.28	24.00	CA 13A-2A
LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	23.25	24.00	CA 13A-4A
LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66886	2155	23.24	24.00	CA 13A-66A
LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	23.73	24.00	CA 14A-2A
LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B30	10	9820	2355	23.67	24.00	CA 14A-30A
LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B66	20	66886	2155	23.74	24.00	CA 14A-66A
LTE B25	20	26590	1905	QPSK	1	0	8590	1985	LTE B25	5	8065	1932.5	23.36	24.00	CA 25A-25A
LTE B25	20	26590	1905	QPSK	1	0	8590	1985	LTE B26	15	8865	876.5	23.45	24.00	CA 25A-26A
LTE B26	15	26865	831.5	QPSK	1	0	8865	876.5	LTE B25	20	8340	1960	23.75	24.00	CA 26A-25A
LTE B26	15	26865	831.5	QPSK	1	0	8865	876.5	LTE B41	20	40620	2593	23.69	24.00	CA 26A-41A
LTE B26	15	26915	836.5	QPSK	1	0	8915	881.5	LTE B25	20	8340	1960	23.69	24.00	CA 26A-25A
LTE B26	15	26915	836.5	QPSK	1	0	8915	881.5	LTE B41	20	40620	2593	23.67	24.00	CA 26A-41A
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B5	10	2525	881.5	23.04	24.00	CA 30A-5A
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B14	10	5330	763	23.04	24.00	CA 30A-14A
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B66	20	66886	2155	23.12	24.00	CA 30A-66A
LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	5	41565	2687.5	23.42	24.00	CA 41A-41A
LTE B41_HPUe	20	41055	2636.5	QPSK	1	0	41055	2636.5	LTE B41	5	39675	2498.5	25.80	27.20	CA 41A-41A
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B2	20	900	1960	23.24	24.00	CA 66A-2A
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B5	10	2525	881.5	23.29	24.00	CA 66A-5A
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B7	20	3100	2655	23.25	24.00	CA 66A-7A
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B12	10	5095	737.5	23.27	24.00	CA 66A-12A
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B13	10	5230	751	23.27	24.00	CA 66A-13A
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B14	10	5330	763	23.33	24.00	CA 66A-14A
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B30	10	9820	2355	23.24	24.00	CA 66A-30A
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B66	5	66461	2112.5	23.26	24.00	CA 66A-66A
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B2	20	902	1960.2	23.51	24.00	CA 2C
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B5	10	2624	891.4	23.30	24.00	CA 5B
LTE B38	20	38150	2610	QPSK	1	0	38150	2610	LTE B38	20	37952	2590.2	23.24	24.00	CA 38C
LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40383	2569.3	23.38	24.00	CA 41C
LTE B41_HPUe	20	41055	2636.5	QPSK	1	0	41055	2636.5	LTE B41	20	41253	2656.3	25.85	27.20	CA 41C
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B66	20	67084	2174.8	23.23	24.00	CA 66C

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Two Component Carrier Maximum Conducted Power_TB															
PCC Band	PCC Bandwidth [MHz]	PCC					SCC				Power		Configurations		
		PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]		LTE Tx Power with DL CA active (dBm)	LTE Tx Power with DL CA inactive (dBm)
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	5	1175	1987.5	13.60	14.00	CA 2A-2A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2132.5	13.61	14.00	CA 2A-4A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	13.54	14.00	CA 2A-5A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5095	737.5	13.55	14.00	CA 2A-12A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B13	10	5230	751	13.52	14.00	CA 2A-13A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B14	10	5330	763	13.59	14.00	CA 2A-14A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B66	20	66886	2155	13.62	14.00	CA 2A-66A
LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B2	20	900	1960	14.38	14.50	CA 4A-2A
LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B4	5	1975	2112.5	14.33	14.50	CA 4A-4A
LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B5	10	2525	881.5	14.41	14.50	CA 4A-5A
LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B7	20	3100	2655	14.38	14.50	CA 4A-7A
LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B12	10	5095	737.5	14.37	14.50	CA 4A-12A
LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B13	10	5230	751	14.42	14.50	CA 4A-13A
LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B66	20	66886	2155	14.41	14.50	CA 4A-66A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B2	20	900	1960	19.29	19.50	CA 5A-2A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B4	20	2175	2132.5	19.30	19.50	CA 5A-4A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B5	5	2625	891.5	19.30	19.50	CA 5A-5A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B7	20	3100	2655	19.29	19.50	CA 5A-7A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B30	10	9820	2355	19.33	19.50	CA 5A-30A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B41	20	40620	2593	19.29	19.50	CA 5A-41A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B66	20	66886	2155	19.34	19.50	CA 5A-66A
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B4	20	2175	2132.5	12.65	13.00	CA 7A-4A
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B5	10	2525	881.5	12.63	13.00	CA 7A-5A
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B66	20	66886	2155	12.65	13.00	CA 7A-66A
LTE B12	10	23130	711	QPSK	1	0	5130	741	LTE B2	20	900	1960	18.36	18.50	CA 12A-2A
LTE B12	10	23130	711	QPSK	1	0	5130	741	LTE B4	20	2175	2132.5	18.44	18.50	CA 12A-4A
LTE B12	10	23130	711	QPSK	1	0	5130	741	LTE B66	20	66886	2155	18.40	18.50	CA 12A-66A
LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	18.67	19.00	CA 13A-2A
LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	18.70	19.00	CA 13A-4A
LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66886	2155	18.69	19.00	CA 13A-66A
LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	19.30	19.50	CA 14A-2A
LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B30	10	9820	2355	19.32	19.50	CA 14A-30A
LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B66	20	66886	2155	19.39	19.50	CA 14A-66A
LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B25	5	8665	1992.5	13.42	13.50	CA 25A-25A
LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B26	15	8865	876.5	13.47	13.50	CA 25A-26A
LTE B26	15	26765	821.5	QPSK	1	0	8765	866.5	LTE B25	20	8340	1960	18.26	18.50	CA 26A-25A
LTE B26	15	26765	821.5	QPSK	1	0	8765	866.5	LTE B41	20	40620	2593	18.26	18.50	CA 26A-41A
LTE B26	15	26865	831.5	QPSK	1	0	8865	876.5	LTE B25	20	8340	1960	18.30	18.50	CA 26A-25A
LTE B26	15	26865	831.5	QPSK	1	0	8865	876.5	LTE B41	20	40620	2593	18.30	18.50	CA 26A-41A
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B5	10	2525	881.5	17.49	17.50	CA 30A-5A
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B14	10	5330	763	17.46	17.50	CA 30A-14A
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B66	20	66886	2155	17.47	17.50	CA 30A-66A
LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	5	39675	2498.5	13.72	14.00	CA 41A-41A
LTE B41 HPUE	20	41055	2636.5	QPSK	1	0	41055	2636.5	LTE B41	5	39675	2498.5	12.69	13.00	CA 41A-41A
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B2	20	900	1960	13.43	13.50	CA 66A-2A
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B5	10	2525	881.5	13.47	13.50	CA 66A-5A
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B7	20	3100	2655	13.42	13.50	CA 66A-7A
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B12	10	5095	737.5	13.45	13.50	CA 66A-12A
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B13	10	5230	751	13.42	13.50	CA 66A-13A
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B14	10	5330	763	13.44	13.50	CA 66A-14A
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B30	10	9820	2355	13.42	13.50	CA 66A-30A
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B66	5	66461	2112.5	13.39	13.50	CA 66A-66A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	13.52	14.00	CA 2C
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B5	10	2549	883.9	19.28	19.50	CA 5B
LTE B38	20	37850	2580	QPSK	1	0	37850	2580	LTE B38	20	38048	2599.8	12.39	12.50	CA 38C
LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	13.68	14.00	CA 41C
LTE B41 HPUE	20	41055	2636.5	QPSK	1	0	41055	2636.5	LTE B41	20	41253	2656.3	12.71	13.00	CA 41C
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B66	20	67038	2170.2	13.48	13.50	CA 66C

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### LTE Downlink 3CA conducted power table

Three Component Carrier Maximum Conducted Power_NB																			
PCC								SCC 1				SCC 2			Power		Configurations		
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]		LTE Tx.Power with DL CA active (dBm)	LTE Tx.Power with DL CA inactive (dBm)
LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	40581	2589.1	23.39	24.00	CA_41D
LTE B41_HPLUE	20	41055	2636.5	QPSK	1	0	41055	2636.5	LTE B41	20	41253	2656.3	LTE B41	20	41451	2676.1	25.77	27.20	CA_41D
LTE B66	20	132322	1745	QPSK	1	0	66886	2155	LTE B66	20	67084	2174.8	LTE B66	20	67282	2194.6	23.19	24.00	CA_66D

Three Component Carrier Maximum Conducted Power_TB																			
PCC								SCC 1				SCC 2			Power		Configurations		
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]		LTE Tx.Power with DL CA active (dBm)	LTE Tx.Power with DL CA inactive (dBm)
LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	41094	2640.4	13.66	14.00	CA_41D
LTE B41_HPLUE	20	41055	2636.5	QPSK	1	0	41055	2636.5	LTE B41	20	40857	2616.7	LTE B41	20	40659	2596.9	12.64	13.00	CA_41D
LTE B66	20	132572	1770	QPSK	1	0	67236	2190	LTE B66	20	67038	2170.2	LTE B66	20	66840	2150.4	13.44	13.50	CA_66D

### LTE CA information

#### A)

The device supports downlink LTE Carrier Aggregation (CA) only. It supports a maximum of 3 carriers in the downlink. Other Release 10 features or higher features are not supported, including Uplink Carrier Aggregation, Enhanced SC-FDMA and Uplink MIMO or other antenna diversity configurations etc. All uplink communications are identical to the Release 8 Specifications.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.521-1 V16.5.0. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1 V16.5.0. According to KDB 941225 D05A and RF exposure procedures in TCB workshop April 2018, the downlink LTE CA SAR test is not required.

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**B)**
**CA combination table**

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset
2CC #1	CA_2A-2A		No	3CC #1	CA_41D		No
2CC #2	CA_2A-4A		No	3CC #2	CA_66D		No
2CC #3	CA_2A-5A		No				
2CC #4	CA_2A-12A		No				
2CC #5	CA_2A-13A		No				
2CC #6	CA_2A-14A		No				
2CC #7	CA_2A-66A		No				
2CC #8	CA_4A-2A		No				
2CC #9	CA_4A-4A		No				
2CC #10	CA_4A-5A		No				
2CC #11	CA_4A-7A		No				
2CC #12	CA_4A-12A		No				
2CC #13	CA_4A-13A		No				
2CC #14	CA_4A-66A		No				
2CC #15	CA_5A-2A		No				
2CC #16	CA_5A-4A		No				
2CC #17	CA_5A-5A		No				
2CC #18	CA_5A-7A		No				
2CC #19	CA_5A-30A		No				
2CC #20	CA_5A-41A		No				
2CC #21	CA_5A-66A		No				
2CC #22	CA_7A-4A		No				
2CC #23	CA_7A-5A		No				
2CC #24	CA_7A-66A		No				
2CC #25	CA_12A-2A		No				
2CC #26	CA_12A-4A		No				
2CC #27	CA_12A-66A		No				
2CC #28	CA_13A-2A		No				
2CC #29	CA_13A-4A		No				
2CC #30	CA_13A-66A		No				
2CC #31	CA_14A-2A		No				
2CC #32	CA_14A-30A		No				
2CC #33	CA_14A-66A		No				
2CC #34	CA_25A-25A		No				
2CC #35	CA_25A-26A		No				
2CC #36	CA_26A-25A		No				
2CC #37	CA_26A-41A		No				
2CC #38	CA_30A-5A		No				
2CC #39	CA_30A-14A		No				
2CC #40	CA_30A-66A		No				
2CC #41	CA_41A-41A		No				
2CC #42	CA_41A-41A		No				
2CC #43	CA_66A-2A		No				
2CC #44	CA_66A-5A		No				
2CC #45	CA_66A-7A		No				
2CC #46	CA_66A-12A		No				
2CC #47	CA_66A-13A		No				
2CC #48	CA_66A-14A		No				
2CC #49	CA_66A-30A		No				
2CC #50	CA_66A-66A		No				
2CC #51	CA_2C		No				
2CC #52	CA_5B		No				
2CC #53	CA_38C		No				
2CC #54	CA_41C		No				
2CC #55	CA_41C		No				
2CC #56	CA_66C		No				

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**Note:**

- 1) For the inter-band CA combinations, except B29 can't be PCC, all the listed bands above can be used as PCC or SCC.
- 2) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V16.5.0.
- 3) The reference test frequencies for CA refers to 3GPP TS 36.508 V16.6.0
- 4) Testing is not required in bands or modes not intended/allowed for US operation
- 5) Based on TCB workshop April 2018, only indicate "No" in CA combination table need power measurement

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## 1.4 Test Environment

Ambient Temperature: 22±2° C  
Tissue Simulating Liquid: 22±2° C

## 1.5 Operation Description

For WWAN, the EUT is controlled by using a Radio Communication Tester, and the communication between the EUT and the tester is established by air link.

For WLAN, use chipset specific software to control the EUT, and makes it transmit in maximum power. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

The device was tested based on FCC guidance.

### Non-NB mode (Tablet)

SAR is measured with back/edges\_0mm (reduced power)

### NB mode

SAR measurement for NB mode is excluded from testing based on KDB 447498 D01 4.3.1 standalone SAR test exclusion consideration

### Note:

1. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
2. **UMTS:** The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is  $\leq \frac{1}{4}$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA). The

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following 4 sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

Sub-test	$\beta_c$	$\beta_a$	$\beta_a$ (SF)	$\beta_c/\beta_a$	$\beta_{hs}^{(2)}$	CM (dB) <sup>(2)</sup>
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 <sup>(3)</sup>	15/15 <sup>(3)</sup>	64	12/15 <sup>(3)</sup>	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$   
 Note 2: CM = 1 for  $\beta_c/\beta_a = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ .  
 Note 3: For subtest 2 the  $\beta_c/\beta_a$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_a = 15/15$ .

3. **UMTS:** The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is  $\leq \frac{1}{4}$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

Sub-test	$\beta_c$	$\beta_a$	$\beta_a$ (SF)	$\beta_c/\beta_a$	$\beta_{hs}^{(1)}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (codes)	CM <sup>(2)</sup> (dB)	MPR (dB)	AG <sup>(4)</sup> Index	E- TFCI
1	11/15 <sup>(3)</sup>	15/15 <sup>(3)</sup>	64	11/15 <sup>(3)</sup>	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 <sup>(4)</sup>	15/15 <sup>(4)</sup>	64	15/15 <sup>(4)</sup>	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ .  
 Note 2: CM = 1 for  $\beta_c/\beta_a = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.  
 Note 3: For subtest 1 the  $\beta_c/\beta_a$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10/15$  and  $\beta_a = 15/15$ .  
 Note 4: For subtest 5 the  $\beta_c/\beta_a$  ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 14/15$  and  $\beta_a = 15/15$ .  
 Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.  
 Note 6:  $\beta_{ed}$  cannot be set directly; it is set by Absolute Grant Value.

4. **UMTS:** The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is  $\leq \frac{1}{4}$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in

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section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

**Table C.11.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM**

Sub-test	$\beta_{c^*}$ (Note 3)	$\beta_{d^*}$	$\beta_{HS}$ (Note 1)	$\beta_{ec}$	$\beta_{ed}$ (2xSF2) (Note 4)	$\beta_{ed}$ (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{ed1}$ : 30/15 $\beta_{ed2}$ : 30/15	$\beta_{ed3}$ : 24/15 $\beta_{ed4}$ : 24/15	3.5	2.5	14	105	105
<p>Note 1: <math>\Delta_{ACK}</math>, <math>\Delta_{NACK}</math> and <math>\Delta_{CQI} = 30/15</math> with <math>\beta_{HS} = 30/15 * \beta_c</math>.</p> <p>Note 2: CM = 3.5 and the MPR is based on the relative CM difference, <math>MPR = \text{MAX}(CM-1, 0)</math>.</p> <p>Note 3: DPDCH is not configured, therefore the <math>\beta_c</math> is set to 1 and <math>\beta_d = 0</math> by default.</p> <p>Note 4: <math>\beta_{ed}</math> can not be set directly; it is set by Absolute Grant Value.</p> <p>Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.</p>											

- UMTS:** The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is  $\leq 1/4$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

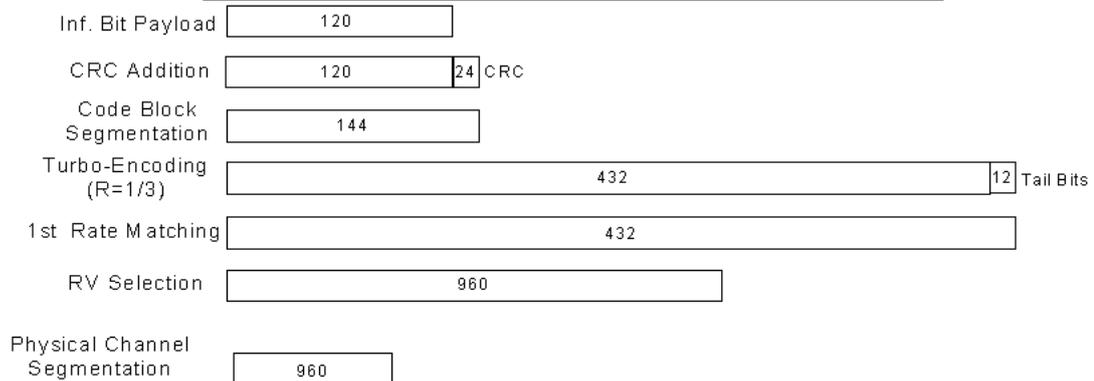
The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122

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**Table C.8.1.12: Fixed Reference Channel H-Set 12**

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload ( $N_{INF}$ )	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table. Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		


**Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)**

The following 4 sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

Sub-test	$\beta_c$	$\beta_a$	$\beta_a$ (SF)	$\beta_c/\beta_a$	$\beta_{hs}^{(1)}$	CM (dB) <sup>(2)</sup>
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 <sup>(3)</sup>	15/15 <sup>(3)</sup>	64	12/15 <sup>(3)</sup>	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1:  $\Delta_{ACK}, \Delta_{NACK}$  and  $\Delta_{CQI} = 8 \leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \leftrightarrow \beta_{hs} = 30/15 * \beta_c$   
 Note 2: CM = 1 for  $\beta_c/\beta_a = 12/15, \beta_{hs}/\beta_c = 24/15$ .  
 Note 3: For subtest 2 the  $\beta_c/\beta_a$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_a = 15/15$ .

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6. **LTE: LTE modes test according to KDB 941225D05v02r05.**

a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.

Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.

When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.

When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.

b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are  $\leq 0.8$  W/kg.

Otherwise, SAR is measured for the highest output power channel and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.

d. Per Section 5.2.4, Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45$  W/kg.

e. Per Section 5.3, other channel bandwidth standalone SAR test requirements

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For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is  $> \frac{1}{2}$  dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is  $> 1.45$  W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

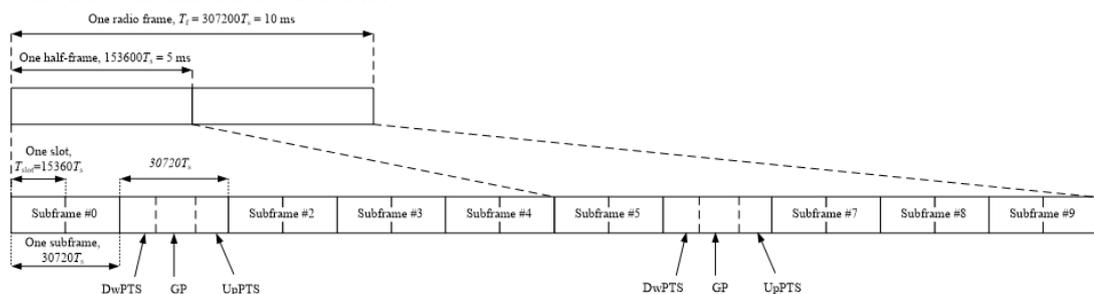


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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**Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)**

Special subframe configuration n	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$	-	-	-	-	-

**Table 4.2-2: Uplink-downlink configurations**

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

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%. Also, TDD LTE power class 2 was tested using Uplink-Downlink configuration 1 with 4 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 43.33%

**7. LTE downlink CA:** The device supports a maximum of 3 carriers in the downlink.

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All uplink communications are identical to the Release 8 specifications. Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than  $\frac{1}{4}$  dB higher than the maximum output power measured when downlink carrier aggregation inactive. The downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements. The nominal channel spacing is determined by  $[BW1 + BW2 - 0.1 * |BW1 - BW2|] / 2$  MHz, where BW1 and BW2 are the channel bandwidths of the CC in a 2-CC aggregation configuration. The downlink PCC channel should be paired with the uplink channel according to normal configurations, as if there is no carrier aggregation. The downlink SCC should be adjacent to the PCC and remain within the downlink transmission band for contiguous intra-band CA. For non-contiguous intra-band CA, the SCC should be selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band. For inter-band CA, the SCC should be near the middle of its transmission band. When downlink carrier aggregation is active uplink maximum output power remain within the specified tune-up tolerance limits and not more than  $\frac{1}{4}$  dB higher than the maximum output power measured when downlink carrier aggregation inactive, so SAR evaluation is not required for downlink carrier aggregation.

8. **LTE intra-band UL CA (contiguous):** The device supports LTE intra-band contiguous 2 UL CA for CA\_7C, CA\_38C and CA\_41C. The maximum output power is measured for each UL CA configuration for the required test channels. UL PCC configuration is determined by the required test channel. SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band. SAR for UL CA is required in highest standalone head/body test position and frequency band combination. Since the maximum output for UL CA is  $\leq$  standalone LTE mode (without CA), PCC is configured according to the highest standalone SAR configuration tested, SCC and subsequent CCs are configured according to

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procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC.

9. 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
10. When the reported SAR is  $> 0.8$  W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.
11. 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
12. Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band.
13. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is  $> 0.8$  W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
14. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for subsequent test configuration.
15. **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq 0.8$  W/kg, when the transmission band is  $\leq 100$  MHz. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8$  W/kg, repeated that measurement once. Perform a second repeated measurement only

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## 1.6 Operating modes validation by power measurement

The device is a convertible laptop computer with predefined single fixed power to each device modes. For the operating modes validation, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

Power vs Kickstand open angle and Power vs time (On/Off body detection) are verified respectively in 1.6.1 and 1.6.2.

DUT mode	Kickstand open angle	Wireless power
NB mode	$15^{\circ} \leq \text{open angle} \leq 145^{\circ}$	Full Power
Non-NB mode	$0^{\circ} \leq \text{open angle} \leq 14^{\circ}$	Reduced Power

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### 1.6.1 Results and conclusion (Power vs Kickstand open angle)

The measured output power versus kickstand open angle is tabulated in the following table based on FCC guidance and 2019-11 TCB workshop, and the triggering verification complies with the device mode / power level declared by the manufacturer.

#### Operating mode validation by power measurement (Power vs Kickstand open angle)

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Antenna	Operation mode	Lid angle	802.11b	Bluetooth	802.11n(40M) 5.2G	802.11a 5.3G	802.11n(40M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.6G	
Main	Non-NB	0°	16.96	9.88	14.85	14.92	14.71	14.99	14.99	
		10°	16.92	9.84	14.79	14.84	14.69	14.94	14.94	
	NB	20°	17.82	9.88	17.06	17.70	17.49	17.89	17.89	
		15°	17.75	9.78	16.96	17.64	17.43	17.80	17.80	
	Non-NB	10°	16.91	9.82	14.84	14.90	14.70	14.96	14.96	
		11°	16.95	9.88	14.83	14.85	14.62	14.90	14.90	
		12°	16.95	9.80	14.80	14.82	14.62	14.92	14.92	
		13°	16.94	9.82	14.81	14.88	14.62	14.91	14.91	
		14°	16.90	9.86	14.75	14.88	14.65	14.96	14.96	
		15°	17.80	9.80	16.98	17.66	17.42	17.83	17.83	
		16°	17.81	9.78	16.96	17.60	17.41	17.88	17.88	
	NB	17°	17.77	9.88	16.98	17.69	17.46	17.89	17.89	
		18°	17.75	9.84	16.96	17.66	17.42	17.84	17.84	
		19°	17.80	9.78	16.96	17.60	17.41	17.80	17.80	
		20°	17.75	9.82	17.02	17.60	17.40	17.84	17.84	
		30°	17.77	9.85	17.01	17.69	17.43	17.86	17.86	
		40°	17.77	9.86	16.99	17.61	17.48	17.87	17.87	
		50°	17.72	9.85	17.02	17.60	17.46	17.79	17.79	
		60°	17.73	9.86	16.99	17.65	17.40	17.83	17.83	
		70°	17.75	9.79	16.96	17.66	17.49	17.80	17.80	
		80°	17.80	9.82	16.98	17.66	17.42	17.86	17.86	
		90°	17.76	9.79	16.97	17.69	17.39	17.84	17.84	
		100°	17.78	9.86	16.99	17.67	17.48	17.83	17.83	
		110°	17.80	9.85	17.04	17.70	17.44	17.79	17.79	
		120°	17.75	9.83	17.03	17.66	17.39	17.84	17.84	
		130°	17.79	9.80	16.96	17.64	17.48	17.80	17.80	
		140°	17.74	9.86	17.01	17.64	17.47	17.87	17.87	
		145°	17.77	9.81	17.00	17.61	17.42	17.83	17.83	
		NB	135°	17.80	9.78	17.04	17.60	17.41	17.88	17.88
	125°		17.74	9.83	17.03	17.67	17.40	17.80	17.80	
	115°		17.73	9.79	16.98	17.68	17.46	17.89	17.89	
	105°		17.75	9.87	16.97	17.62	17.41	17.86	17.86	
	95°		17.73	9.82	17.02	17.65	17.43	17.79	17.79	
	85°		17.76	9.84	16.96	17.69	17.48	17.79	17.79	
	75°		17.81	9.87	16.96	17.62	17.45	17.83	17.83	
	65°		17.73	9.83	16.98	17.63	17.41	17.81	17.81	
	55°		17.80	9.85	16.97	17.68	17.41	17.87	17.87	
	45°		17.82	9.81	17.06	17.68	17.44	17.89	17.89	
	35°		17.74	9.82	16.96	17.68	17.45	17.85	17.85	
	25°		17.79	9.78	17.04	17.64	17.40	17.83	17.83	
	Non-NB		15°	17.82	9.86	16.97	17.69	17.49	17.81	17.81
			5°	16.94	9.78	14.78	14.83	14.62	14.89	14.89
	NB	10°	16.90	9.82	14.79	14.91	14.68	14.89	14.89	
		15°	17.72	9.82	17.05	17.66	17.44	17.87	17.87	
	Non-NB	14°	16.95	9.79	14.81	14.88	14.65	14.95	14.95	
		13°	16.86	9.85	14.83	14.83	14.64	14.95	14.95	
		12°	16.96	9.83	14.77	14.83	14.62	14.90	14.90	
		11°	16.95	9.88	14.81	14.91	14.66	14.98	14.98	
		10°	16.88	9.78	14.80	14.91	14.61	14.93	14.93	
		9°	16.92	9.87	14.77	14.88	14.71	14.97	14.97	
8°		16.93	9.88	14.83	14.82	14.61	14.97	14.97		
7°		16.87	9.79	14.80	14.91	14.71	14.94	14.94		
6°		16.94	9.87	14.77	14.86	14.62	14.99	14.99		
5°		16.96	9.78	14.83	14.89	14.69	14.91	14.91		
0°		16.89	9.86	14.83	14.92	14.70	14.94	14.94		

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Antenna	Operation mode	Lid angle	LTE B12	LTE B13	LTE B14	LTE B17	LTE B25	LTE B26	LTE B30	LTE B38	LTE B41	LTE B41_PC2	LTE B66
Main	Non-NB	0°	18.44	18.75	18.39	18.83	13.49	18.36	17.49	12.42	13.76	12.75	13.44
		10°	18.36	18.68	18.33	18.78	13.49	18.32	17.43	12.53	13.69	12.73	13.38
	NB	20°	23.25	23.31	23.77	23.44	23.39	23.73	23.13	23.26	23.34	25.90	23.33
		15°	23.22	23.23	23.70	23.36	23.37	23.64	23.06	23.20	23.31	25.90	23.30
	Non-NB	10°	18.36	18.67	18.36	18.79	13.44	18.32	17.44	12.38	13.73	12.74	13.35
		11°	18.44	18.69	18.33	18.76	13.43	18.36	17.48	12.37	13.66	12.70	13.39
		12°	18.41	18.73	18.31	18.80	13.43	18.36	17.48	12.35	13.69	12.74	13.39
		13°	18.40	18.71	18.34	18.83	13.45	18.29	17.41	12.42	13.67	12.65	13.34
		14°	18.35	18.71	18.37	18.74	13.42	18.29	17.49	12.33	13.72	12.66	13.37
		15°	23.22	23.22	23.73	23.39	23.38	23.69	23.08	23.22	23.34	25.82	23.25
		16°	23.23	23.28	23.73	23.34	23.34	23.70	23.06	23.24	23.29	25.88	23.27
		17°	23.17	23.27	23.77	23.38	23.29	23.66	23.03	23.20	23.24	25.89	23.25
		18°	23.17	23.27	23.75	23.37	23.36	23.67	23.04	23.20	23.26	25.84	23.26
		19°	23.17	23.26	23.77	23.35	23.38	23.72	23.07	23.21	23.34	25.82	23.24
	NB	20°	23.15	23.24	23.73	23.41	23.33	23.65	23.06	23.20	23.24	25.83	23.23
		30°	23.19	23.31	23.71	23.43	23.37	23.66	23.12	23.25	23.27	25.83	23.30
		40°	23.18	23.27	23.75	23.38	23.34	23.63	23.07	23.22	23.26	25.87	23.32
		50°	23.19	23.26	23.77	23.43	23.33	23.66	23.04	23.21	23.31	25.83	23.27
		60°	23.23	23.24	23.77	23.40	23.32	23.70	23.11	23.22	23.27	25.86	23.28
		70°	23.22	23.26	23.77	23.35	23.32	23.66	23.08	23.24	23.27	25.81	23.27
		80°	23.25	23.27	23.67	23.42	23.32	23.66	23.10	23.16	23.26	25.85	23.24
		90°	23.19	23.31	23.70	23.43	23.37	23.66	23.08	23.21	23.27	25.83	23.24
		100°	23.20	23.23	23.74	23.36	23.37	23.67	23.11	23.23	23.27	25.90	23.25
		110°	23.22	23.28	23.73	23.41	23.36	23.65	23.05	23.18	23.26	25.90	23.29
	120°	23.20	23.25	23.71	23.37	23.33	23.71	23.03	23.16	23.30	25.80	23.24	
	130°	23.17	23.25	23.70	23.35	23.38	23.73	23.07	23.23	23.34	25.81	23.29	
	140°	23.25	23.29	23.73	23.38	23.33	23.73	23.08	23.26	23.26	25.87	23.33	
	145°	23.24	23.23	23.75	23.38	23.35	23.66	23.03	23.23	23.32	25.86	23.28	
	135°	23.20	23.31	23.68	23.37	23.35	23.71	23.03	23.19	23.30	25.83	23.27	
	125°	23.15	23.31	23.69	23.37	23.32	23.73	23.09	23.21	23.30	25.90	23.29	
	115°	23.22	23.31	23.70	23.44	23.31	23.72	23.07	23.26	23.34	25.90	23.31	
	105°	23.16	23.30	23.71	23.37	23.39	23.68	23.03	23.24	23.28	25.87	23.29	
	95°	23.19	23.27	23.70	23.44	23.34	23.63	23.07	23.19	23.27	25.90	23.25	
	85°	23.22	23.27	23.72	23.42	23.30	23.71	23.07	23.16	23.33	25.82	23.29	
	NB	75°	23.22	23.31	23.75	23.40	23.35	23.68	23.03	23.21	23.25	25.81	23.24
		65°	23.23	23.21	23.74	23.34	23.29	23.73	23.08	23.16	23.25	25.89	23.28
		55°	23.24	23.26	23.75	23.37	23.31	23.63	23.08	23.19	23.34	25.81	23.27
		45°	23.15	23.29	23.68	23.34	23.35	23.66	23.05	23.24	23.26	25.85	23.33
		35°	23.23	23.29	23.75	23.34	23.39	23.66	23.06	23.25	23.33	25.86	23.23
		25°	23.24	23.30	23.72	23.38	23.38	23.72	23.09	23.23	23.26	25.80	23.29
		15°	23.23	23.24	23.71	23.41	23.34	23.72	23.03	23.24	23.34	25.90	23.33
		5°	18.35	18.65	18.34	18.81	13.48	18.26	17.39	12.34	13.74	12.68	13.44
		10°	18.37	18.71	18.38	18.73	13.47	18.30	17.46	12.35	13.73	12.75	13.41
		15°	23.23	23.23	23.71	23.44	23.31	23.72	23.04	23.16	23.27	25.88	23.24
	Non-NB	14°	18.37	18.75	18.38	18.73	13.41	18.33	17.40	12.36	13.76	12.75	13.36
		13°	18.35	18.72	18.34	18.78	13.40	18.32	17.46	12.39	13.70	12.65	13.43
		12°	18.36	18.69	18.31	18.82	13.42	18.29	17.45	12.34	13.67	12.68	13.41
		11°	18.43	18.73	18.37	18.77	13.45	18.34	17.46	12.34	13.70	12.66	13.44
		10°	18.43	18.65	18.31	18.80	13.46	18.30	17.47	12.37	13.67	12.71	13.39
		9°	18.40	18.73	18.29	18.73	13.42	18.29	17.47	12.35	13.74	12.71	13.39
		8°	18.44	18.75	18.30	18.74	13.49	18.27	17.49	12.35	13.69	12.68	13.35
		7°	18.39	18.69	18.38	18.75	13.48	18.32	17.39	12.32	13.68	12.66	13.42
		6°	18.44	18.65	18.39	18.73	13.47	18.33	17.41	12.37	13.75	12.69	13.44
		5°	18.37	18.75	18.37	18.78	13.43	18.36	17.47	12.32	13.74	12.75	13.38
	0°	18.34	18.67	18.32	18.73	13.43	18.34	17.46	12.36	13.75	12.66	13.39	

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Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11a 5.3G	802.11n(40M) 5.3G	802.11a 5.6G	802.11n(40M) 5.6G	802.11ac(80M) 5.6G	802.11a 5.8G	802.11ac(80M) 5.8G
Aux	Non-NB	0°	16.90	14.86	14.96	14.95	14.72	14.93	14.67	14.69	14.99
		10°	16.85	14.82	14.94	14.91	14.68	14.87	14.67	14.64	14.95
		20°	17.88	17.85	17.60	17.73	17.60	17.45	17.27	17.03	17.15
	NB	15°	17.80	17.81	17.57	17.73	17.55	17.36	17.23	17.03	17.07
		10°	16.87	14.79	14.95	14.91	14.68	14.90	14.65	14.60	14.91
		11°	16.85	14.78	14.94	14.89	14.70	14.93	14.57	14.62	14.94
	Non-NB	12°	16.86	14.83	14.94	14.93	14.66	14.85	14.60	14.61	14.97
		13°	16.83	14.81	14.87	14.95	14.70	14.84	14.63	14.65	14.91
		14°	16.86	14.81	14.88	14.95	14.72	14.92	14.60	14.64	14.92
	NB	15°	17.81	17.75	17.54	17.64	17.55	17.43	17.24	17.01	17.08
		16°	17.87	17.82	17.53	17.70	17.52	17.42	17.17	17.03	17.13
		17°	17.87	17.83	17.51	17.67	17.52	17.36	17.27	16.98	17.07
		18°	17.83	17.84	17.60	17.73	17.56	17.45	17.23	16.93	17.08
		19°	17.84	17.81	17.55	17.68	17.51	17.43	17.24	16.96	17.05
		20°	17.87	17.84	17.59	17.69	17.60	17.36	17.17	17.01	17.08
		30°	17.80	17.81	17.55	17.67	17.58	17.44	17.27	17.00	17.05
		40°	17.86	17.80	17.56	17.67	17.59	17.35	17.19	17.01	17.12
		50°	17.83	17.75	17.52	17.71	17.57	17.36	17.26	16.97	17.08
		60°	17.84	17.82	17.58	17.67	17.56	17.41	17.17	16.93	17.13
		70°	17.79	17.75	17.53	17.68	17.60	17.39	17.24	16.97	17.12
		80°	17.88	17.80	17.56	17.66	17.60	17.35	17.21	16.95	17.14
		90°	17.78	17.75	17.57	17.70	17.52	17.42	17.26	16.99	17.15
		100°	17.87	17.82	17.51	17.66	17.60	17.35	17.21	16.94	17.08
		110°	17.80	17.79	17.60	17.73	17.60	17.37	17.21	17.00	17.07
		120°	17.80	17.77	17.53	17.68	17.59	17.36	17.26	16.96	17.07
		130°	17.85	17.77	17.50	17.66	17.56	17.35	17.20	16.93	17.13
		140°	17.82	17.78	17.52	17.72	17.52	17.44	17.19	16.95	17.14
		145°	17.85	17.77	17.53	17.63	17.54	17.43	17.20	17.02	17.11
		135°	17.84	17.78	17.52	17.67	17.53	17.35	17.27	16.96	17.06
	NB	125°	17.78	17.83	17.53	17.64	17.56	17.38	17.20	16.99	17.12
		115°	17.86	17.78	17.50	17.64	17.53	17.44	17.23	16.94	17.12
		105°	17.83	17.83	17.54	17.73	17.55	17.39	17.23	17.03	17.06
		95°	17.86	17.77	17.57	17.73	17.52	17.39	17.18	17.02	17.11
		85°	17.80	17.80	17.53	17.67	17.58	17.42	17.27	16.96	17.08
		75°	17.84	17.78	17.54	17.67	17.52	17.36	17.26	17.02	17.12
		65°	17.81	17.84	17.59	17.64	17.53	17.44	17.20	16.97	17.09
		55°	17.86	17.78	17.51	17.72	17.55	17.44	17.27	17.00	17.11
		45°	17.82	17.81	17.56	17.67	17.53	17.37	17.22	16.93	17.05
		35°	17.82	17.85	17.55	17.68	17.55	17.37	17.17	16.96	17.12
		25°	17.78	17.75	17.59	17.64	17.60	17.42	17.21	16.93	17.09
		15°	17.84	17.82	17.53	17.70	17.51	17.41	17.20	16.96	17.15
	Non-NB	5°	16.89	14.81	14.96	14.94	14.70	14.91	14.67	14.60	14.99
		10°	16.88	14.76	14.87	14.88	14.63	14.88	14.67	14.69	14.95
	NB	15°	17.86	17.79	17.52	17.65	17.60	17.35	17.27	16.98	17.14
		14°	16.81	14.78	14.90	14.90	14.62	14.93	14.57	14.59	14.96
	Non-NB	13°	16.86	14.78	14.88	14.85	14.70	14.84	14.61	14.63	14.99
		12°	16.80	14.86	14.88	14.93	14.66	14.92	14.62	14.63	14.99
		11°	16.81	14.78	14.86	14.90	14.71	14.90	14.64	14.63	14.93
		10°	16.87	14.80	14.94	14.89	14.70	14.86	14.64	14.62	14.99
		9°	16.85	14.78	14.96	14.94	14.69	14.86	14.60	14.60	14.92
8°		16.83	14.76	14.89	14.92	14.70	14.87	14.59	14.60	14.99	
7°		16.87	14.84	14.90	14.88	14.65	14.89	14.66	14.60	14.93	
6°		16.81	14.78	14.90	14.90	14.64	14.89	14.57	14.62	14.97	
5°		16.88	14.85	14.87	14.85	14.72	14.84	14.58	14.60	14.95	
0°		16.81	14.86	14.86	14.88	14.67	14.92	14.62	14.62	14.89	

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	Device status	Detection status	Power level	Remark	Time (Sec)	802.11b	802.11n(40M) 5.2G	802.11a 5.3G	802.11n(40M) 5.3G	802.11a 5.6G	802.11n(40M) 5.6G	802.11ac(80M) 5.6G	802.11a 5.8G	802.11ac(80M) 5.8G		
						14.99	14.86	14.96	14.95	14.72	14.93	14.67	14.69	14.99		
Cycle 1 (Tablet)	Device put on table (static)	ON BODY (Default)	Reduced power	Recording power during 15 seconds	0	16.90	14.86	14.96	14.95	14.72	14.93	14.67	14.69	14.99		
					3	16.87	14.78	14.95	14.92	14.67	14.88	14.63	14.89	14.90		
					6	16.87	14.78	14.89	14.90	14.62	14.80	14.67	14.85	14.86		
					9	16.89	14.77	14.92	14.89	14.67	14.86	14.62	14.80	14.89		
					10	16.87	14.86	14.86	14.94	14.68	14.93	14.67	14.81	14.89		
					11	16.85	14.86	14.86	14.94	14.68	14.90	14.65	14.61	14.92		
					12	16.90	14.80	14.87	14.88	14.68	14.93	14.64	14.69	14.94		
					13	16.83	14.81	14.92	14.87	14.63	14.88	14.57	14.64	14.99		
					14	16.80	14.84	14.93	14.87	14.69	14.91	14.67	14.86	14.99		
					15	16.90	14.85	14.96	14.90	14.67	14.94	14.65	14.66	14.94		
					16	17.89	14.77	14.92	14.89	14.67	14.86	14.62	14.80	14.89		
					17	17.84	17.76	17.57	17.68	17.53	17.42	17.23	17.03	17.08		
					18	17.80	17.85	17.57	17.71	17.51	17.45	17.27	17.01	17.08		
					19	17.85	17.82	17.50	17.64	17.51	17.37	17.20	17.00	17.09		
					20	17.86	17.84	17.55	17.68	17.54	17.43	17.24	17.01	17.08		
	21	17.82	17.81	17.60	17.68	17.50	17.35	17.22	17.01	17.12						
	24	17.80	17.80	17.60	17.63	17.42	17.37	17.19	16.95	17.12						
	27	17.85	17.83	17.56	17.68	17.54	17.36	17.27	17.00	17.07						
	30	17.82	17.80	17.60	17.64	17.53	17.38	17.19	17.00	17.08						
	33	17.85	17.85	17.54	17.70	17.60	17.38	17.25	16.94	17.13						
	36	17.86	17.75	17.50	17.68	17.50	17.45	17.19	17.01	17.09						
	39	17.80	17.83	17.57	17.71	17.60	17.39	17.24	16.93	17.09						
	41	17.83	17.78	17.56	17.69	17.56	17.43	17.25	16.98	17.11						
	42	17.87	17.78	17.59	17.73	17.67	17.57	17.47	16.95	17.07						
	43	17.80	17.83	17.54	17.67	17.35	17.17	17.07	16.98	17.10						
	44	17.83	17.83	17.59	17.71	17.52	17.43	17.17	16.98	17.13						
	45	17.79	17.85	17.59	17.72	17.58	17.39	17.19	17.03	17.07						
	46	17.80	17.82	17.60	17.68	17.56	17.39	17.20	17.00	17.07						
	47	16.86	14.78	14.86	14.92	14.69	14.92	14.57	14.64	14.97						
	48	16.86	14.79	14.94	14.92	14.62	14.83	14.67	14.63	14.93						
	49	16.89	14.83	14.86	14.95	14.67	14.87	14.67	14.64	14.94						
	50	16.84	14.86	14.94	14.89	14.63	14.86	14.62	14.65	14.96						
	51	16.89	14.82	14.93	14.93	14.63	14.89	14.64	14.59	14.98						
	54	16.86	14.76	14.92	14.95	14.64	14.58	14.60	14.60	14.98						
	57	16.88	14.86	14.95	14.91	14.71	14.86	14.67	14.69	14.98						
	60	16.86	14.78	14.87	14.93	14.68	14.91	14.66	14.69	14.95						
	63	16.88	14.86	14.88	14.85	14.69	14.86	14.65	14.60	14.97						
	66	16.89	14.83	14.86	14.95	14.64	14.89	14.68	14.62	14.92						
	69	16.81	14.86	14.96	14.95	14.68	14.88	14.66	14.66	14.97						
	72	16.90	14.83	14.87	14.90	14.71	14.89	14.66	14.62	14.94						
	73	16.83	14.85	14.94	14.89	14.68	14.85	14.62	14.66	14.99						
	74	16.83	14.82	14.91	14.95	14.70	14.83	14.59	14.64	14.91						
	75	16.80	14.80	14.90	14.89	14.69	14.88	14.60	14.61	14.92						
	76	16.82	14.85	14.87	14.85	14.71	14.83	14.57	14.61	14.89						
	77	16.86	14.81	14.86	14.95	14.68	14.93	14.57	14.67	14.92						
	Cycle 2 (Tablet)	Device put on table (static)	ON BODY	Reduced power	Recording power during 15 seconds	78	16.89	14.85	14.90	14.88	14.69	14.93	14.63	14.60	14.90	
						79	16.87	14.84	14.89	14.94	14.64	14.87	14.65	14.62	14.89	14.99
						80	16.81	14.78	14.94	14.89	14.66	14.85	14.62	14.60	14.89	14.89
81						16.87	14.76	14.91	14.91	14.66	14.88	14.67	14.63	14.89	14.89	
82						16.90	14.76	14.87	14.89	14.72	14.83	14.66	14.67	14.89	14.89	
83						16.83	14.83	14.86	14.95	14.64	14.89	14.67	14.68	14.97	14.97	
86						16.82	14.77	14.94	14.94	14.70	14.85	14.65	14.69	14.98	14.98	
88						16.83	14.80	14.91	14.91	14.62	14.92	14.66	14.64	14.90	14.90	
89						16.85	14.86	14.96	14.89	14.62	14.92	14.57	14.65	14.94	14.94	
90						16.84	14.78	14.88	14.87	14.65	14.87	14.57	14.68	14.96	14.96	
91						16.89	14.77	14.88	14.90	14.70	14.91	14.65	14.59	14.95	14.95	
92						16.85	14.76	14.86	14.91	14.62	14.87	14.62	14.63	14.89	14.89	
93						16.83	14.82	14.92	14.85	14.64	14.86	14.60	14.66	14.92	14.92	
94						17.88	17.76	17.54	17.64	17.53	17.38	17.26	17.01	17.10	17.10	
95						17.81	17.75	17.58	17.70	17.52	17.44	17.23	16.94	17.13	17.13	
96		17.86	17.84	17.54	17.71	17.58	17.45	17.25	16.96	17.05	17.05					
97		17.84	17.80	17.51	17.63	17.59	17.40	17.19	16.99	17.15	17.15					
98		17.81	17.79	17.55	17.64	17.53	17.40	17.21	16.99	17.08	17.08					
99		17.81	17.78	17.50	17.71	17.57	17.35	17.24	16.97	17.08	17.08					
102		17.80	17.83	17.51	17.64	17.51	17.35	17.24	16.95	17.14	17.14					
105		17.78	17.82	17.56	17.69	17.52	17.35	17.21	16.98	17.09	17.09					
108		17.76	17.83	17.54	17.64	17.51	17.35	17.21	17.01	17.14	17.14					
111		17.80	17.75	17.53	17.69	17.60	17.44	17.25	16.96	17.11	17.11					
114		17.79	17.80	17.58	17.73	17.50	17.37	17.21	16.93	17.07	17.07					
117		17.83	17.80	17.50	17.69	17.54	17.36	17.27	16.93	17.15	17.15					
119		17.84	17.77	17.51	17.67	17.52	17.40	17.19	16.99	17.12	17.12					
120		17.84	17.82	17.54	17.70	17.56	17.41	17.26	17.01	17.15	17.15					
121		17.86	17.84	17.59	17.65	17.59	17.38	17.26	16.95	17.05	17.05					
122		17.88	17.81	17.52	17.70	17.50	17.38	17.18	16.94	17.05	17.05					
123		17.88	17.81	17.57	17.68	17.56	17.41	17.17	17.03	17.13	17.13					
124		17.88	17.76	17.51	17.67	17.52	17.45	17.22	16.94	17.12	17.12					
125		16.80	14.86	14.92	14.89	14.63	14.85	14.67	14.64	14.89	14.89					
126		16.83	14.86	14.92	14.95	14.62	14.84	14.63	14.60	14.94	14.94					
127		16.83	14.83	14.91	14.92	14.65	14.86	14.62	14.69	14.93	14.93					
128		16.84	14.79	14.92	14.91	14.64	14.93	14.60	14.60	14.99	14.99					
129		16.84	14.76	14.96	14.85	14.71	14.91	14.60	14.61	14.97	14.97					
132		16.82	14.77	14.91	14.85	14.64	14.89	14.57	14.65	14.90	14.90					
135		16.89	14.80	14.90	14.86	14.71	14.89	14.61	14.64	14.96	14.96					
138		16.85	14.79	14.96	14.88	14.72	14.84	14.62	14.67	14.94	14.94					
141		16.88	14.83	14.87	14.91	14.68	14.93	14.65	14.60	14.99	14.99					
144		16.82	14.83	14.95	14.90	14.67	14.91	14.62	14.65	14.98	14.98					
147		16.80	14.84	14.88	14.86	14.71	14.86	14.58	14.68	14.92	14.92					
150		16.88	14.82	14.88	14.86	14.70	14.88	14.66	14.61	14.91	14.91					
151		16.86	14.77	14.96	14.94	14.71	14.88	14.64	14.59	14.95	14.95					
152		16.86	14.83	14.91	14.93	14.63	14.88	14.62	14.63	14.95	14.95					
153		16.82	14.79	14.93	14.85	14.65	14.90	14.57	14.65	14.98	14.98					
154		16.81	14.78	14.91	14.93	14.68	14.93	14.67	14.65	14.96	14.96					
155		16.81	14.84	14.92	14.89	14.67	14.87	14.62	14.64	14.90	14.90					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Tablet + Kickstand

Table with columns: Device status, Decision status, Power level, Remarks, Time (sec), and various test parameters (e.g., ESD 11k, ESD 15k, etc.). The table is organized into four main sections: Cycle 1 (Tablet + Kickstand), Cycle 2 (Tablet + Kickstand), and two sections for Device move (product) on ON BODY and OFF BODY.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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	Device status	Detection status	Power level	Remark	Time (Sec)	802.11b	802.11n(40M) 5.2G	802.11a 5.3G	802.11n(40M) 5.3G	802.11a 5.6G	802.11n(40M) 5.6G	802.11ac(80M) 5.6G	802.11a 5.8G	802.11ac(80M) 5.8G
Cycle 1 (Tablet + kickstand)	Device put on table (static)	ON BODY (Default)	Reduced power	Recording power during 15 seconds	0	16.90	14.86	14.96	14.95	14.72	14.93	14.67	14.69	14.99
					3	16.81	14.85	14.94	14.90	14.69	14.86	14.59	14.61	14.90
					6	16.87	14.86	14.90	14.95	14.62	14.83	14.64	14.69	14.92
					9	16.85	14.77	14.91	14.87	14.64	14.83	14.58	14.62	14.91
					10	16.86	14.86	14.86	14.94	14.70	14.89	14.58	14.67	14.97
					11	16.90	14.81	14.89	14.94	14.62	14.86	14.63	14.63	14.97
					12	16.88	14.86	14.89	14.90	14.70	14.84	14.65	14.61	14.98
					13	16.87	14.78	14.86	14.85	14.69	14.86	14.65	14.65	14.98
					14	16.81	14.77	14.88	14.87	14.70	14.83	14.60	14.59	14.97
					15	16.87	14.76	14.90	14.87	14.70	14.93	14.60	14.68	14.95
					16	17.88	17.85	17.60	17.73	17.60	17.45	17.27	17.03	17.15
					17	17.81	17.83	17.59	17.63	17.59	17.37	17.25	17.03	17.12
					18	17.85	17.76	17.53	17.63	17.59	17.37	17.27	16.97	17.07
					19	17.87	17.81	17.51	17.73	17.57	17.36	17.19	17.02	17.13
					20	17.81	17.78	17.53	17.63	17.55	17.41	17.19	16.95	17.15
	21	17.86	17.82	17.50	17.70	17.57	17.37	17.27	16.97	17.10				
	24	17.80	17.75	17.53	17.71	17.50	17.42	17.20	17.00	17.15				
	27	17.79	17.76	17.55	17.68	17.57	17.37	17.20	16.93	17.14				
	30	17.87	17.77	17.50	17.63	17.51	17.35	17.27	17.02	17.06				
	33	17.80	17.79	17.59	17.63	17.59	17.37	17.21	16.93	17.11				
	36	17.88	17.76	17.59	17.72	17.50	17.44	17.19	17.01	17.11				
	39	17.80	17.80	17.55	17.71	17.57	17.42	17.23	16.93	17.13				
	41	17.82	17.75	17.50	17.72	17.57	17.36	17.23	16.98	17.07				
	42	17.79	17.78	17.55	17.71	17.59	17.45	17.17	16.95	17.08				
	43	17.85	17.77	17.60	17.63	17.57	17.36	17.17	16.99	17.12				
	44	17.81	17.79	17.59	17.71	17.51	17.45	17.27	17.03	17.14				
	45	17.79	17.80	17.51	17.64	17.54	17.37	17.27	16.98	17.14				
	46	17.80	17.79	17.55	17.66	17.57	17.40	17.25	16.99	17.11				
	47	16.88	14.86	14.92	14.91	14.72	14.87	14.59	14.61	14.93				
	48	16.84	14.86	14.92	14.85	14.67	14.85	14.66	14.60	14.91				
	49	16.89	14.81	14.89	14.85	14.62	14.84	14.67	14.63	14.89				
	50	16.90	14.86	14.95	14.88	14.63	14.91	14.61	14.63	14.95				
	51	16.83	14.78	14.91	14.89	14.62	14.83	14.60	14.63	14.99				
54	16.87	14.78	14.89	14.95	14.72	14.92	14.65	14.61	14.92					
57	16.81	14.86	14.93	14.88	14.68	14.86	14.66	14.61	14.93					
60	16.90	14.85	14.94	14.91	14.66	14.83	14.60	14.60	14.94					
63	16.89	14.81	14.89	14.85	14.70	14.83	14.58	14.64	14.96					
66	16.87	14.77	14.90	14.87	14.69	14.93	14.63	14.69	14.92					
69	16.85	14.82	14.92	14.93	14.85	14.83	14.58	14.69	14.96					
72	16.90	14.77	14.95	14.85	14.72	14.92	14.67	14.66	14.90					
73	16.90	14.76	14.92	14.94	14.70	14.84	14.60	14.64	14.94					
74	16.88	14.78	14.87	14.95	14.65	14.83	14.58	14.63	14.94					
75	16.85	14.78	14.87	14.94	14.62	14.87	14.67	14.66	14.96					
76	16.80	14.78	14.86	14.85	14.71	14.88	14.63	14.63	14.91					
77	16.88	14.80	14.95	14.93	14.71	14.87	14.63	14.67	14.89					
Cycle 2 (Tablet + kickstand)	Device put on table (static)	ON BODY	Reduced power	Recording power during 15 seconds	78	16.86	14.77	14.87	14.88	14.62	14.88	14.64	14.61	14.97
					79	16.83	14.80	14.91	14.93	14.68	14.85	14.59	14.69	14.93
					80	16.86	14.82	14.87	14.86	14.66	14.89	14.67	14.68	14.98
					81	16.88	14.76	14.87	14.93	14.62	14.85	14.63	14.63	14.97
					82	16.85	14.82	14.93	14.86	14.68	14.89	14.67	14.59	14.99
					83	16.90	14.80	14.86	14.91	14.64	14.90	14.65	14.65	14.91
					86	16.88	14.79	14.96	14.92	14.72	14.85	14.62	14.64	14.89
					88	16.84	14.82	14.92	14.90	14.64	14.87	14.64	14.62	14.90
					89	16.89	14.86	14.92	14.91	14.71	14.83	14.65	14.61	14.98
					90	16.81	14.82	14.90	14.87	14.69	14.90	14.64	14.68	14.98
					91	16.85	14.83	14.89	14.90	14.62	14.85	14.59	14.68	14.94
					92	16.87	14.82	14.91	14.88	14.62	14.93	14.67	14.65	14.91
					93	16.88	14.79	14.86	14.85	14.72	14.87	14.62	14.68	14.93
					94	17.83	17.76	17.59	17.63	17.56	17.38	17.21	16.94	17.10
					95	17.82	17.81	17.52	17.73	17.51	17.40	17.26	17.02	17.12
	96	17.82	17.79	17.57	17.66	17.53	17.40	17.18	16.93	17.05				
	97	17.85	17.81	17.59	17.72	17.50	17.45	17.27	17.00	17.12				
	98	17.82	17.81	17.55	17.72	17.57	17.44	17.19	16.98	17.05				
	99	17.79	17.82	17.54	17.71	17.52	17.41	17.24	17.03	17.11				
	102	17.86	17.77	17.51	17.68	17.50	17.40	17.27	16.97	17.06				
	105	17.82	17.79	17.58	17.70	17.58	17.43	17.21	16.97	17.07				
	108	17.85	17.81	17.60	17.63	17.58	17.41	17.22	17.03	17.15				
	111	17.82	17.78	17.56	17.68	17.58	17.37	17.20	16.98	17.14				
	114	17.82	17.76	17.51	17.72	17.51	17.39	17.19	16.94	17.12				
	117	17.82	17.76	17.56	17.63	17.51	17.35	17.27	16.97	17.08				
	119	17.86	17.79	17.59	17.69	17.60	17.35	17.21	17.00	17.12				
	120	17.80	17.85	17.52	17.69	17.58	17.39	17.26	17.02	17.12				
	121	17.84	17.76	17.50	17.63	17.54	17.44	17.26	17.03	17.11				
	122	17.79	17.78	17.56	17.68	17.57	17.45	17.20	16.99	17.09				
	123	17.84	17.79	17.50	17.68	17.59	17.35	17.25	16.94	17.11				
	124	17.84	17.85	17.58	17.63	17.60	17.42	17.25	16.97	17.06				
	125	16.81	14.86	14.91	14.86	14.65	14.89	14.65	14.66	14.95				
	126	16.89	14.85	14.92	14.93	14.69	14.86	14.57	14.67	14.99				
127	16.82	14.83	14.91	14.89	14.62	14.93	14.66	14.68	14.95					
128	16.85	14.83	14.92	14.86	14.68	14.83	14.67	14.66	14.94					
129	16.90	14.80	14.91	14.93	14.70	14.86	14.57	14.66	14.95					
132	16.84	14.83	14.93	14.89	14.67	14.90	14.58	14.65	14.95					
135	16.83	14.77	14.94	14.86	14.68	14.86	14.59	14.64	14.96					
138	16.86	14.76	14.92	14.86	14.64	14.86	14.66	14.64	14.90					
141	16.88	14.82	14.89	14.93	14.66	14.88	14.58	14.69	14.99					
144	16.88	14.82	14.96	14.86	14.63	14.87	14.65	14.62	14.91					
147	16.89	14.82	14.86	14.95	14.67	14.86	14.66	14.63	14.98					
150	16.80	14.84	14.87	14.95	14.69	14.84	14.64	14.66	14.98					
151	16.87	14.79	14.90	14.93	14.66	14.84	14.59	14.64	14.95					
152	16.87	14.80	14.88	14.86	14.70	14.82	14.63	14.59	14.92					
153	16.80	14.78	14.89	14.85	14.72	14.87	14.58	14.61	14.89					
154	16.80	14.86	14.86	14.93	14.71	14.85	14.59	14.60	14.90					
155	16.87	14.80	14.93	14.90	14.66	14.89	14.59	14.63	14.99					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### Tablet + Kickstand + Keyboard

Device status	Configuration	Power level	Remark	Time (Sec)	RG 116	RG 116 S	RG 116M S 2.5	RG 116 S 3.5	RG 116M S 5.0	RG 116M S 6.5	RG 116M S 8.0	RG 116M S 9.5	RG 116M S 11.0	RG 116M S 12.5	RG 116M S 14.0	RG 116M S 15.5	RG 116M S 17.0	RG 116M S 18.5	RG 116M S 20.0	RG 116M S 21.5	RG 116M S 23.0	RG 116M S 24.5	RG 116M S 26.0	RG 116M S 27.5	RG 116M S 29.0	RG 116M S 30.5	RG 116M S 32.0	RG 116M S 33.5	RG 116M S 35.0	RG 116M S 36.5	RG 116M S 38.0	RG 116M S 39.5	RG 116M S 41.0	RG 116M S 42.5	RG 116M S 44.0	RG 116M S 45.5	RG 116M S 47.0	RG 116M S 48.5	RG 116M S 50.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Device put on table (static)	ON BODY (Default)	Reduced power	Recording power during 30 seconds	3	16.88	8.85	14.83	14.86	14.89	14.93	14.97	15.01	15.05	15.09	15.13	15.17	15.21	15.25	15.29	15.33	15.37	15.41	15.45	15.49	15.53	15.57	15.61	15.65	15.69	15.73	15.77	15.81	15.85	15.89	15.93	15.97	16.01	16.05	16.09	16.13	16.17	16.21	16.25	16.29	16.33	16.37	16.41	16.45	16.49	16.53	16.57	16.61	16.65	16.69	16.73	16.77	16.81	16.85	16.89	16.93	16.97	17.01	17.05	17.09	17.13	17.17	17.21	17.25	17.29	17.33	17.37	17.41	17.45	17.49	17.53	17.57	17.61	17.65	17.69	17.73	17.77	17.81	17.85	17.89	17.93	17.97	18.01	18.05	18.09	18.13	18.17	18.21	18.25	18.29	18.33	18.37	18.41	18.45	18.49	18.53	18.57	18.61	18.65	18.69	18.73	18.77	18.81	18.85	18.89	18.93	18.97	19.01	19.05	19.09	19.13	19.17	19.21	19.25	19.29	19.33	19.37	19.41	19.45	19.49	19.53	19.57	19.61	19.65	19.69	19.73	19.77	19.81	19.85	19.89	19.93	19.97	20.01	20.05	20.09	20.13	20.17	20.21	20.25	20.29	20.33	20.37	20.41	20.45	20.49	20.53	20.57	20.61	20.65	20.69	20.73	20.77	20.81	20.85	20.89	20.93	20.97	21.01	21.05	21.09	21.13	21.17	21.21	21.25	21.29	21.33	21.37	21.41	21.45	21.49	21.53	21.57	21.61	21.65	21.69	21.73	21.77	21.81	21.85	21.89	21.93	21.97	22.01	22.05	22.09	22.13	22.17	22.21	22.25	22.29	22.33	22.37	22.41	22.45	22.49	22.53	22.57	22.61	22.65	22.69	22.73	22.77	22.81	22.85	22.89	22.93	22.97	23.01	23.05	23.09	23.13	23.17	23.21	23.25	23.29	23.33	23.37	23.41	23.45	23.49	23.53	23.57	23.61	23.65	23.69	23.73	23.77	23.81	23.85	23.89	23.93	23.97	24.01	24.05	24.09	24.13	24.17	24.21	24.25	24.29	24.33	24.37	24.41	24.45	24.49	24.53	24.57	24.61	24.65	24.69	24.73	24.77	24.81	24.85	24.89	24.93	24.97	25.01	25.05	25.09	25.13	25.17	25.21	25.25	25.29	25.33	25.37	25.41	25.45	25.49	25.53	25.57	25.61	25.65	25.69	25.73	25.77	25.81	25.85	25.89	25.93	25.97	26.01	26.05	26.09	26.13	26.17	26.21	26.25	26.29	26.33	26.37	26.41	26.45	26.49	26.53	26.57	26.61	26.65	26.69	26.73	26.77	26.81	26.85	26.89	26.93	26.97	27.01	27.05	27.09	27.13	27.17	27.21	27.25	27.29	27.33	27.37	27.41	27.45	27.49	27.53	27.57	27.61	27.65	27.69	27.73	27.77	27.81	27.85	27.89	27.93	27.97	28.01	28.05	28.09	28.13	28.17	28.21	28.25	28.29	28.33	28.37	28.41	28.45	28.49	28.53	28.57	28.61	28.65	28.69	28.73	28.77	28.81	28.85	28.89	28.93	28.97	29.01	29.05	29.09	29.13	29.17	29.21	29.25	29.29	29.33	29.37	29.41	29.45	29.49	29.53	29.57	29.61	29.65	29.69	29.73	29.77	29.81	29.85	29.89	29.93	29.97	30.01	30.05	30.09	30.13	30.17	30.21	30.25	30.29	30.33	30.37	30.41	30.45	30.49	30.53	30.57	30.61	30.65	30.69	30.73	30.77	30.81	30.85	30.89	30.93	30.97	31.01	31.05	31.09	31.13	31.17	31.21	31.25	31.29	31.33	31.37	31.41	31.45	31.49	31.53	31.57	31.61	31.65	31.69	31.73	31.77	31.81	31.85	31.89	31.93	31.97	32.01	32.05	32.09	32.13	32.17	32.21	32.25	32.29	32.33	32.37	32.41	32.45	32.49	32.53	32.57	32.61	32.65	32.69	32.73	32.77	32.81	32.85	32.89	32.93	32.97	33.01	33.05	33.09	33.13	33.17	33.21	33.25	33.29	33.33	33.37	33.41	33.45	33.49	33.53	33.57	33.61	33.65	33.69	33.73	33.77	33.81	33.85	33.89	33.93	33.97	34.01	34.05	34.09	34.13	34.17	34.21	34.25	34.29	34.33	34.37	34.41	34.45	34.49	34.53	34.57	34.61	34.65	34.69	34.73	34.77	34.81	34.85	34.89	34.93	34.97	35.01	35.05	35.09	35.13	35.17	35.21	35.25	35.29	35.33	35.37	35.41	35.45	35.49	35.53	35.57	35.61	35.65	35.69	35.73	35.77	35.81	35.85	35.89	35.93	35.97	36.01	36.05	36.09	36.13	36.17	36.21	36.25	36.29	36.33	36.37	36.41	36.45	36.49	36.53	36.57	36.61	36.65	36.69	36.73	36.77	36.81	36.85	36.89	36.93	36.97	37.01	37.05	37.09	37.13	37.17	37.21	37.25	37.29	37.33	37.37	37.41	37.45	37.49	37.53	37.57	37.61	37.65	37.69	37.73	37.77	37.81	37.85	37.89	37.93	37.97	38.01	38.05	38.09	38.13	38.17	38.21	38.25	38.29	38.33	38.37	38.41	38.45	38.49	38.53	38.57	38.61	38.65	38.69	38.73	38.77	38.81	38.85	38.89	38.93	38.97	39.01	39.05	39.09	39.13	39.17	39.21	39.25	39.29	39.33	39.37	39.41	39.45	39.49	39.53	39.57	39.61	39.65	39.69	39.73	39.77	39.81	39.85	39.89	39.93	39.97	40.01	40.05	40.09	40.13	40.17	40.21	40.25	40.29	40.33	40.37	40.41	40.45	40.49	40.53	40.57	40.61	40.65	40.69	40.73	40.77	40.81	40.85	40.89	40.93	40.97	41.01	41.05	41.09	41.13	41.17	41.21	41.25	41.29	41.33	41.37	41.41	41.45	41.49	41.53	41.57	41.61	41.65	41.69	41.73	41.77	41.81	41.85	41.89	41.93	41.97	42.01	42.05	42.09	42.13	42.17	42.21	42.25	42.29	42.33	42.37	42.41	42.45	42.49	42.53	42.57	42.61	42.65	42.69	42.73	42.77	42.81	42.85	42.89	42.93	42.97	43.01	43.05	43.09	43.13	43.17	43.21	43.25	43.29	43.33	43.37	43.41	43.45	43.49	43.53	43.57	43.61	43.65	43.69	43.73	43.77	43.81	43.85	43.89	43.93	43.97	44.01	44.05	44.09	44.13	44.17	44.21	44.25	44.29	44.33	44.37	44.41	44.45	44.49	44.53	44.57	44.61	44.65	44.69	44.73	44.77	44.81	44.85	44.89	44.93	44.97	45.01	45.05	45.09	45.13	45.17	45.21	45.25	45.29	45.33	45.37	45.41	45.45	45.49	45.53	45.57	45.61	45.65	45.69	45.73	45.77	45.81	45.85	45.89	45.93	45.97	46.01	46.05	46.09	46.13	46.17	46.21	46.25	46.29	46.33	46.37	46.41	46.45	46.49	46.53	46.57	46.61	46.65	46.69	46.73	46.77	46.81	46.85	46.89	46.93	46.97	47.01	47.05	47.09	47.13	47.17	47.21	47.25	47.29	47.33	47.37	47.41	47.45	47.49	47.53	47.57	47.61	47.65	47.69	47.73	47.77	47.81	47.85	47.89	47.93	47.97	48.01	48.05	48.09	48.13	48.17	48.21	48.25	48.29	48.33	48.37	48.41	48.45	48.49	48.53	48.57	48.61	48.65	48.69	48.73	48.77	48.81	48.85	48.89	48.93	48.97	49.01	49.05	49.09	49.13	49.17	49.21	49.25	49.29	49.33	49.37	49.41	49.45	49.49	49.53	49.57	49.61	49.65	49.69	49.73	49.77	49.81	49.85	49.89	49.93	49.97	50.01	50.05	50.09	50.13	50.17	50.21	50.25	50.29	50.33	50.37	50.41	50.45	50.49	50.53	50.57	50.61	50.65	50.69	50.73	50.77	50.81	50.85	50.89	50.93	50.97	51.01	51.05	51.09	51.13	51.17	51.21	51.25	51.29	51.33	51.37	51.41	51.45	51.49	51.53	51.57	51.61	51.65	51.69	51.73	51.77	51.81	51.85	51.89	51.93	51.97	52.01	52.05	52.09	52.13	52.17	52.21	52.25	52.29	52.33	52.37	52.41	52.45	52.49	52.53	52.57	52.61	52.65	52.69	52.73	52.77	52.81	52.85	52.89	52.93	52.97	53.01	53.05	53.09	53.13	53.17	53.21	53.25	53.29	53.33	53.37	53.41	53.45	53.49	53.53	53.57	53.61	53.65	53.69	53.73	53.77	53.81	53.85	53.89	53.93	53.97	54.01	54.05	54.09	54.13	54.17	54.21	54.25	54.29	54.33	54.37	54.41	54.45	54.49	54.53	54.57	54.61	54.65	54.69	54.73	54.77	54.81	54.85	54.89	54.93	54.97	55.01	55.05	55.09	55.13	55.17	55.21	55.25	55.29	55.33	55.37	55.41	55.45	55.49	55.53	55.57	55.61	55.65	55.69	55.73	55.77	55.81	55.85	55.89	55.93	55.97	56.01	56.05	56.09	56.13	56.17	56.21	56.25	56.29

	Device status	Detection status	Power level	Remark	Time (Sec)	802.11b	802.11n(40M) 5.2G	802.11a 5.3G	802.11n(40M) 5.3G	802.11a 5.6G	802.11n(40M) 5.6G	802.11ac(80M) 5.6G	802.11a 5.8G	802.11ac(80M) 5.8G
Cycle 1 (Tablet + kickstand)	Device put on table (static)	ON BODY (Default)	Reduced power	Recording power during 15 seconds	0	16.90	14.86	14.96	14.95	14.72	14.93	14.67	14.69	14.89
					3	16.82	14.81	14.87	14.86	14.64	14.85	14.57	14.69	14.89
					6	16.90	14.77	14.91	14.95	14.70	14.88	14.58	14.67	14.91
					9	16.82	14.83	14.87	14.88	14.66	14.92	14.61	14.67	14.99
					10	16.86	14.79	14.94	14.94	14.69	14.86	14.67	14.61	14.98
					11	16.80	14.83	14.86	14.92	14.67	14.83	14.59	14.64	14.90
					12	16.83	14.86	14.91	14.85	14.68	14.86	14.61	14.65	14.99
					13	16.82	14.85	14.95	14.89	14.63	14.86	14.62	14.62	14.90
					14	16.85	14.84	14.89	14.85	14.70	14.92	14.57	14.59	14.97
					15	16.81	14.79	14.96	14.92	14.67	14.86	14.58	14.61	14.95
					16	17.88	17.85	17.60	17.73	17.60	17.45	17.27	17.03	17.15
					17	17.81	17.80	17.53	17.71	17.56	17.39	17.20	16.98	17.09
					18	17.83	17.78	17.55	17.66	17.60	17.45	17.17	16.94	17.12
					19	17.80	17.79	17.50	17.68	17.50	17.40	17.24	17.01	17.12
					20	17.82	17.80	17.54	17.69	17.57	17.40	17.22	17.02	17.09
	21	17.82	17.84	17.56	17.72	17.53	17.37	17.17	16.95	17.09				
	24	17.84	17.78	17.60	17.65	17.58	17.44	17.17	16.96	17.10				
	27	17.81	17.78	17.53	17.68	17.51	17.39	17.21	17.03	17.15				
	30	17.82	17.76	17.56	17.72	17.60	17.44	17.23	16.95	17.14				
	33	17.85	17.78	17.60	17.65	17.53	17.38	17.18	16.96	17.15				
	36	17.88	17.75	17.58	17.72	17.54	17.41	17.20	17.03	17.06				
	39	17.79	17.82	17.54	17.69	17.59	17.44	17.24	16.97	17.13				
	41	17.78	17.79	17.55	17.64	17.51	17.37	17.26	16.97	17.12				
	42	17.83	17.78	17.55	17.64	17.58	17.40	17.19	16.99	17.06				
	43	17.84	17.77	17.60	17.67	17.52	17.38	17.17	16.98	17.12				
	44	17.79	17.77	17.55	17.64	17.57	17.38	17.24	16.98	17.07				
	45	17.80	17.83	17.56	17.70	17.57	17.45	17.24	17.03	17.13				
	46	17.83	17.85	17.54	17.69	17.53	17.36	17.17	16.99	17.07				
	47	16.84	14.78	14.95	14.90	14.71	14.91	14.61	14.63	14.93				
	48	16.85	14.77	14.92	14.85	14.71	14.83	14.63	14.65	14.97				
	49	16.83	14.83	14.87	14.90	14.70	14.82	14.65	14.68	14.99				
	50	16.83	14.82	14.94	14.87	14.67	14.84	14.60	14.69	14.90				
	51	16.83	14.85	14.91	14.88	14.64	14.83	14.60	14.64	14.93				
	54	16.87	14.78	14.96	14.86	14.72	14.85	14.67	14.68	14.91				
	57	16.86	14.85	14.94	14.95	14.70	14.87	14.59	14.61	14.91				
	60	16.89	14.80	14.93	14.87	14.66	14.85	14.58	14.69	14.91				
	63	16.82	14.86	14.94	14.89	14.69	14.93	14.64	14.69	14.93				
	66	16.83	14.77	14.87	14.94	14.64	14.89	14.63	14.68	14.96				
	69	16.88	14.79	14.95	14.92	14.70	14.88	14.57	14.64	14.98				
	72	16.83	14.77	14.89	14.95	14.64	14.92	14.65	14.60	14.93				
	73	16.87	14.80	14.95	14.92	14.64	14.86	14.58	14.69	14.98				
	74	16.81	14.78	14.92	14.93	14.67	14.88	14.63	14.66	14.92				
	75	16.88	14.76	14.92	14.87	14.62	14.86	14.58	14.65	14.96				
	76	16.89	14.84	14.88	14.95	14.71	14.88	14.65	14.66	14.97				
	77	16.83	14.82	14.88	14.86	14.71	14.84	14.60	14.59	14.94				
	Cycle 2 (Tablet + kickstand)	Device put on table (static)	ON BODY	Reduced power	Recording power during 15 seconds	78	16.86	14.78	14.88	14.93	14.72	14.85	14.64	14.63
79						16.84	14.83	14.92	14.94	14.67	14.85	14.62	14.62	14.95
80						16.82	14.86	14.87	14.89	14.71	14.91	14.67	14.68	14.97
81						16.89	14.86	14.90	14.87	14.68	14.88	14.66	14.67	14.94
82						16.90	14.84	14.89	14.90	14.63	14.88	14.60	14.60	14.96
83						16.80	14.81	14.93	14.86	14.70	14.92	14.59	14.64	14.94
86						16.81	14.78	14.88	14.93	14.66	14.88	14.60	14.61	14.91
88						16.80	14.77	14.86	14.85	14.71	14.86	14.63	14.69	14.96
89						16.82	14.76	14.92	14.86	14.67	14.93	14.67	14.68	14.92
90						16.85	14.80	14.87	14.90	14.72	14.87	14.66	14.65	14.97
91						16.86	14.77	14.87	14.94	14.69	14.88	14.59	14.66	14.90
92						16.83	14.85	14.87	14.95	14.72	14.86	14.59	14.69	14.97
93						16.87	14.77	14.96	14.91	14.65	14.83	14.65	14.63	14.92
94						17.81	17.82	17.59	17.72	17.55	17.40	17.21	16.96	17.07
95						17.81	17.84	17.50	17.71	17.58	17.44	17.26	16.98	17.10
96		17.79	17.82	17.60	17.70	17.60	17.45	17.21	17.03	17.08				
97		17.81	17.79	17.59	17.66	17.58	17.37	17.17	16.95	17.14				
98		17.78	17.80	17.50	17.64	17.60	17.42	17.23	16.95	17.08				
99		17.84	17.80	17.50	17.63	17.50	17.38	17.18	17.02	17.07				
102		17.83	17.82	17.53	17.71	17.57	17.39	17.25	16.97	17.12				
105		17.88	17.77	17.51	17.68	17.50	17.43	17.17	16.94	17.07				
108		17.88	17.84	17.59	17.69	17.57	17.43	17.25	16.99	17.15				
111		17.88	17.79	17.60	17.67	17.58	17.43	17.25	16.97	17.13				
114		17.88	17.81	17.56	17.63	17.54	17.40	17.22	17.01	17.06				
117		17.79	17.81	17.54	17.64	17.57	17.37	17.22	17.01	17.05				
119		17.82	17.78	17.58	17.65	17.58	17.40	17.18	16.93	17.07				
120		17.78	17.83	17.59	17.66	17.52	17.38	17.27	16.98	17.06				
121		17.87	17.85	17.59	17.71	17.55	17.38	17.19	16.94	17.07				
122		17.84	17.83	17.60	17.73	17.51	17.37	17.23	16.93	17.11				
123		17.85	17.85	17.60	17.72	17.54	17.35	17.19	16.97	17.09				
124		17.83	17.78	17.55	17.69	17.58	17.35	17.18	17.03	17.10				
125		16.81	14.80	14.86	14.87	14.69	14.88	14.57	14.62	14.89				
126		16.85	14.80	14.91	14.93	14.69	14.87	14.57	14.59	14.98				
127		16.83	14.78	14.96	14.91	14.66	14.89	14.64	14.62	14.95				
128		16.89	14.83	14.86	14.92	14.72	14.86	14.66	14.67	14.90				
129		16.89	14.82	14.96	14.87	14.72	14.86	14.67	14.67	14.98				
132		16.85	14.84	14.91	14.87	14.62	14.92	14.65	14.61	14.93				
135		16.82	14.84	14.93	14.92	14.64	14.90	14.61	14.59	14.98				
138		16.86	14.79	14.88	14.87	14.69	14.84	14.63	14.69	14.92				
141		16.82	14.79	14.88	14.89	14.67	14.92	14.66	14.65	14.92				
144		16.85	14.78	14.92	14.93	14.67	14.91	14.59	14.59	14.93				
147		16.81	14.80	14.96	14.94	14.69	14.92	14.65	14.68	14.98				
150		16.86	14.76	14.95	14.86	14.67	14.91	14.66	14.60	14.90				
151		16.80	14.80	14.94	14.90	14.68	14.88	14.60	14.62	14.89				
152		16.84	14.85	14.88	14.89	14.66	14.84	14.65	14.62	14.89				
153		16.80	14.82	14.92	14.90	14.66	14.85	14.60	14.63	14.91				
154	16.85	14.81	14.92	14.94	14.63	14.88	14.67	14.65	14.96					
155	16.87	14.81	14.92	14.93	14.68	14.84	14.65	14.69	14.96					

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### 1.6 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation  $SAR = \sigma (|E|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.

The DASY 5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

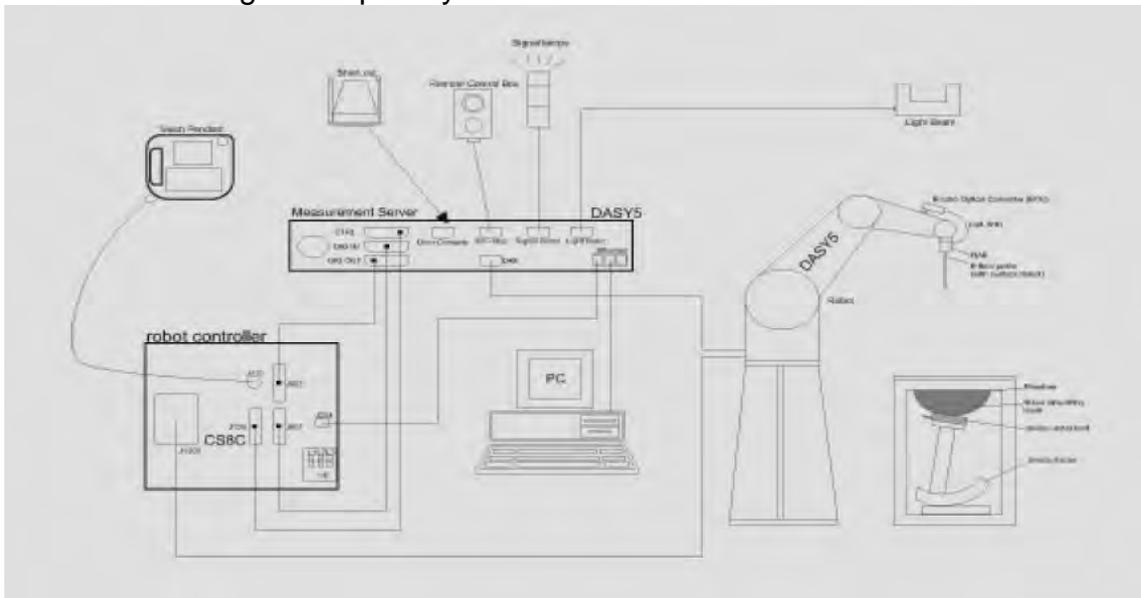


Fig. a The block diagram of SAR system

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4. The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
5. The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
6. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
7. A computer operating Windows 7.
8. DASY 5 software.
9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
10. Tissue simulating liquid mixed according to the given recipes.
11. Validation dipole kits allowing to validate the proper functioning of the system.

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## 1.7 System Components

### EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very steep gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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### PHANTOM

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

### DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	 <p style="text-align: center;">Device Holder</p>
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## 1.8 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was  $\geq 15 \text{ cm} \pm 5 \text{ mm}$  (frequency  $\leq 3 \text{ GHz}$ ) or  $\geq 10 \text{ cm} \pm 5 \text{ mm}$  (frequency  $> 3 \text{ GHz}$ ) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

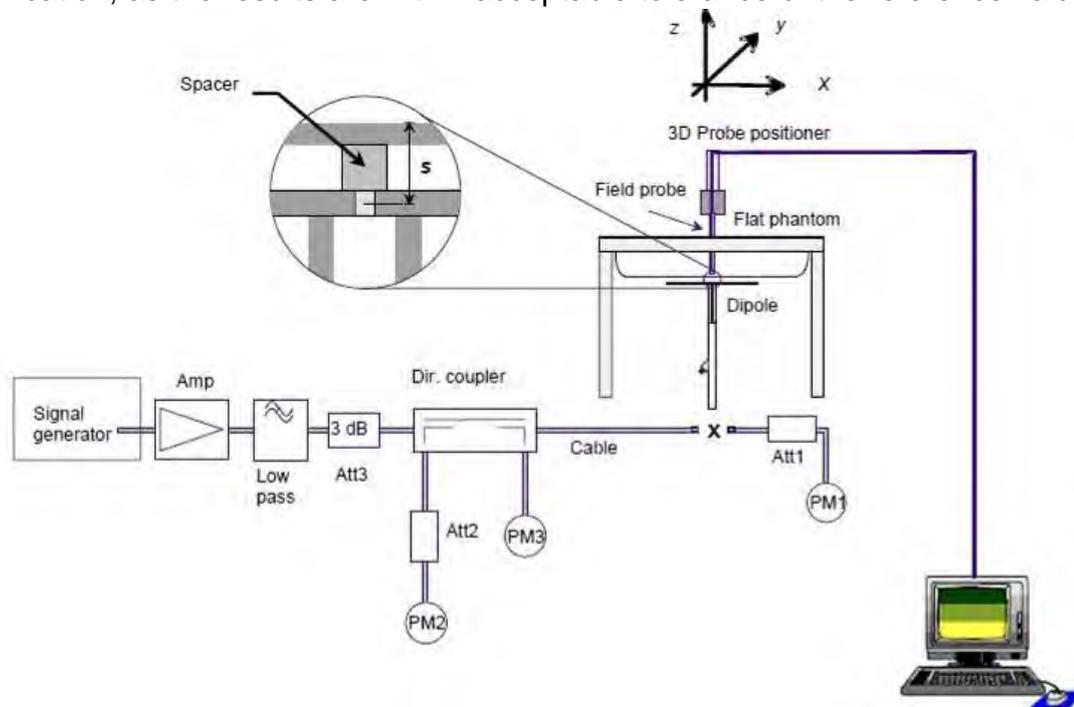


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V3	1015	750	Head	8.48	2.18	8.72	2.83%	Apr. 07, 2021
D835V2	4d063	835	Head	9.52	2.35	9.40	-1.26%	Apr. 07, 2021
D1750V2	1008	1750	Head	36.00	8.77	35.08	-2.56%	Apr. 09, 2021
D1900V2	5d173	1900	Head	39.40	9.98	39.92	1.32%	Apr. 09, 2021
D2300V2	1023	2300	Head	49.00	11.90	47.60	-2.86%	Apr. 11, 2021
D2600V2	1005	2600	Head	56.90	13.70	54.80	-3.69%	Apr. 11, 2021

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D2450V2	727	2450	Head	52.60	13.20	52.8	0.38%	Apr. 02, 2021
Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5200	Head	77.90	8.38	83.8	7.57%	Apr. 04, 2021
		5300	Head	80.40	7.85	78.5	-2.36%	Apr. 04, 2021
		5600	Head	83.90	8.55	85.5	1.91%	Apr. 06, 2021
		5800	Head	80.90	8.51	85.1	5.19%	Apr. 06, 2021

Table 1. Results of system verification

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### 1.9 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit ( DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within  $\pm 5\%$  of the target values.

The depth of the tissue simulant in the flat section of the phantom was  $\geq 15 \text{ cm} \pm 5 \text{ mm}$  (Frequency  $\leq 3\text{G}$ ) or  $\geq 10 \text{ cm} \pm 5 \text{ mm}$  (Frequency  $> 3\text{G}$ ) during all tests. (Fig. 2)

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$
Head	Apr. 07, 2021	673	42.151	0.887	41.843	0.881	-0.73%	-0.68%
		683	42.153	0.889	41.851	0.883	-0.72%	-0.67%
		688	42.157	0.889	41.844	0.887	-0.74%	-0.22%
		704	42.181	0.890	41.936	0.889	-0.58%	-0.11%
		707.5	42.162	0.890	41.943	0.886	-0.52%	-0.46%
		709	42.155	0.890	41.649	0.884	-1.20%	-0.69%
		710	42.149	0.890	41.652	0.885	-1.18%	-0.59%
		711	42.144	0.890	41.659	0.879	-1.15%	-1.27%
		750	41.942	0.893	41.178	0.888	-1.82%	-0.60%
		782	41.775	0.896	41.011	0.890	-1.83%	-0.66%
		793	41.718	0.897	40.955	0.891	-1.83%	-0.67%
		821.5	41.684	0.899	40.911	0.882	-1.85%	-1.89%
		826.4	41.545	0.899	40.755	0.893	-1.90%	-0.70%
		829	41.531	0.900	40.767	0.892	-1.84%	-0.84%
		831.5	41.518	0.900	40.738	0.894	-1.88%	-0.64%
		835	41.500	0.900	40.882	0.895	-1.49%	-0.56%
		836.5	41.500	0.902	40.878	0.897	-1.50%	-0.51%
		836.6	41.500	0.902	40.894	0.896	-1.46%	-0.63%
	841.5	41.500	0.907	40.898	0.901	-1.45%	-0.66%	
	844	41.500	0.910	41.056	0.903	-1.07%	-0.74%	
	846.6	41.500	0.912	41.019	0.905	-1.16%	-0.82%	
	Apr. 09, 2021	1720	40.126	1.354	39.697	1.342	-1.07%	-0.86%
		1732.5	40.107	1.361	39.665	1.349	-1.10%	-0.88%
		1745	40.087	1.368	39.646	1.356	-1.10%	-0.89%
		1750	40.079	1.371	39.642	1.360	-1.09%	-0.81%
		1770	40.447	1.383	40.010	1.372	-1.08%	-0.80%
		1852.4	40.000	1.400	39.712	1.392	-0.72%	-0.57%
		1860	40.000	1.400	39.696	1.395	-0.76%	-0.36%
		1880	40.000	1.400	39.720	1.393	-0.70%	-0.50%
		1882.5	40.000	1.400	39.684	1.390	-0.79%	-0.71%
		1900	40.000	1.400	39.472	1.389	-1.32%	-0.79%
	Apr. 11, 2021	1905	40.000	1.400	39.480	1.387	-1.30%	-0.93%
		1907.6	40.000	1.400	39.464	1.380	-1.34%	-1.43%
		2300	39.467	1.667	38.961	1.653	-1.28%	-0.82%
		2310	39.449	1.676	38.916	1.662	-1.35%	-0.81%
		2506	39.129	1.861	38.608	1.846	-1.33%	-0.81%
		2510	39.124	1.865	38.623	1.850	-1.28%	-0.83%
		2535	39.092	1.893	38.361	1.881	-1.87%	-0.62%
		2549.5	39.073	1.909	38.339	1.897	-1.88%	-0.60%
		2560	39.060	1.920	38.330	1.910	-1.87%	-0.52%
		2580	39.035	1.942	38.289	1.930	-1.91%	-0.61%
		2593	39.018	1.956	38.296	1.944	-1.85%	-0.61%
		2595	39.015	1.958	38.309	1.946	-1.81%	-0.62%
	2600	39.009	1.964	39.153	1.964	0.37%	0.02%	
	2610	38.996	1.975	39.137	1.981	0.36%	0.33%	
2636.5	38.963	2.003	38.234	1.991	-1.87%	-0.62%		
2680	38.907	2.051	39.012	2.052	0.27%	0.05%		

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$
Head	Apr. 02, 2021	2402	39.285	1.757	38.904	1.737	-0.97%	-1.16%
		2417	39.259	1.771	38.878	1.749	-0.97%	-1.22%
		2437	39.223	1.788	38.819	1.768	-1.03%	-1.14%
		2441	39.216	1.792	38.816	1.771	-1.02%	-1.17%
		2450	39.200	1.800	38.749	1.788	-1.15%	-0.67%
		2457	39.191	1.808	38.701	1.794	-1.25%	-0.75%
		2480	39.162	1.827	38.708	1.814	-1.16%	-0.69%
	Apr. 04, 2021	5190	35.997	4.645	35.554	4.609	-1.23%	-0.77%
		5200	35.986	4.655	35.334	4.626	-1.81%	-0.62%
		5220	35.963	4.676	35.294	4.646	-1.86%	-0.63%
		5230	35.951	4.686	35.279	4.657	-1.87%	-0.61%
		5240	35.940	4.696	35.277	4.666	-1.84%	-0.64%
		5260	35.917	4.717	35.242	4.687	-1.88%	-0.63%
		5270	35.906	4.727	35.224	4.695	-1.90%	-0.67%
		5280	35.894	4.737	35.227	4.705	-1.86%	-0.68%
		5300	35.871	4.758	35.333	4.727	-1.50%	-0.64%
		5310	35.860	4.768	35.317	4.740	-1.51%	-0.58%
	Apr. 06, 2021	5520	35.620	4.983	35.096	4.954	-1.47%	-0.58%
		5550	35.586	5.014	35.048	4.982	-1.51%	-0.63%
		5600	35.529	5.065	35.148	5.024	-1.07%	-0.81%
		5610	35.517	5.075	35.137	5.031	-1.07%	-0.87%
		5680	35.437	5.147	35.054	5.104	-1.08%	-0.84%
		5690	35.426	5.157	35.032	5.114	-1.11%	-0.84%
		5710	35.403	5.178	35.003	5.133	-1.13%	-0.86%
		5745	35.363	5.214	34.963	5.170	-1.13%	-0.84%
		5755	35.351	5.224	34.959	5.182	-1.11%	-0.80%
		5775	35.329	5.244	35.064	5.214	-0.75%	-0.58%
		5785	35.317	5.255	35.038	5.223	-0.79%	-0.60%
		5795	35.306	5.265	35.037	5.236	-0.76%	-0.55%
		5800	35.300	5.270	35.035	5.232	-0.75%	-0.72%
5825	35.271	5.296	34.809	5.253	-1.31%	-0.80%		

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the body tissue simulating liquid:

Frequency (MHz)	Mode	Ingredient						Total amount
		DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	
750	Head	—	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)
850	Head	—	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)
1750	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
1900	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
2300	Head	550ml	450ml	—	—	—	—	1.0L(Kg)
2450	Head	550ml	450ml	—	—	—	—	1.0L(Kg)
2600	Head	550ml	450ml	—	—	—	—	1.0L(Kg)

Body Simulating Liquids for 5 GHz, Manufactured by SPEAG:

Ingredients	Water	Esters, Emulsifiers, Inhibitors	Sodium and Salt
(% by weight)	60-80	20-40	0-1.5

Table 3. Recipes for Tissue Simulating Liquid

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## 1.10 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high-resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within  $-2$  dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans. The routines are verified and optimized for the grid dimensions used in these cube measurements.

The measured volume of 30x30x30mm contains about 30g of tissue.

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The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

## 1.11 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

### 1.11.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field ( $E$ ) and the temperature gradient ( $\delta T / \delta t$ ) in the liquid.

$$SAR = \frac{\sigma}{\rho} |E|^2 = c \frac{\delta T}{\delta t}$$

whereby  $\sigma$  is the conductivity,  $\rho$  the density and  $c$  the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

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1. The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.
2. The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
3. The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ( $\sim 2\%$  for  $c$ ; much better for  $\rho$ ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed  $\pm 5\%$ .
4. Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about  $\pm 10\%$  (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is  $\pm 5\%$  (RSS) when the same liquid is used for the calibration and for actual measurements and  $\pm 7-9\%$  (RSS) when not, which is in good agreement with the estimates given in [2].

### 1.11.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

1. The setup must enable accurate determination of the incident power.
2. The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.

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3. Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

## References

1. N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
2. K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, "Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954-1962, Oct. 1996.
3. K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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## 1.12 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (“SAR”) in Section 4.2 of “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in “Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields,” NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

1. Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
2. Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
3. Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles

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where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table 4.)

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR (Brain)	1.60 W/Kg	8.00 W/Kg
Spatial Average SAR (Whole Body)	0.08 W/Kg	0.40 W/Kg
Spatial Peak SAR (Hands/Feet/Ankle/Wrist)	4.00 W/Kg	20.00 W/Kg

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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## 2. Summary of Results

### 2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.2 Summary of Results

#### Reduce Power TB mode

#### WCDMA Band II / Band V

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back side	0	9262	1852.4	14.0	13.35	116.14%	0.629	0.731	-
	Back side	0	9400	1880	14.0	13.70	107.15%	0.706	0.756	-
	Back side	0	9538	1907.6	14.0	13.99	100.23%	0.790	0.792	227
	Back side*	0	9538	1907.6	14.0	13.99	100.23%	0.702	0.703	-
	Back side*	0	9538	1907.6	14.0	13.99	100.23%	0.425	0.426	-
	Back side*	0	9538	1907.6	14.0	13.99	100.23%	0.421	0.422	-
	Top side	0	9538	1907.6	14.0	13.99	100.23%	0.381	0.382	-
	Bottom side	0	9538	1907.6	14.0	13.99	100.23%	0.001	0.001	-
	Left side	0	9538	1907.6	14.0	13.99	100.23%	0.003	0.003	-
Right side	0	9538	1907.6	14.0	13.99	100.23%	0.007	0.007	-	
WCDMA Band V	Back side	0	4132	826.4	18.5	18.29	104.95%	0.622	0.653	228
	Back side*	0	4132	826.4	18.5	18.29	104.95%	0.553	0.580	-
	Back side*	0	4132	826.4	18.5	18.29	104.95%	0.334	0.351	-
	Back side*	0	4132	826.4	18.5	18.29	104.95%	0.332	0.348	-
	Back side	0	4183	836.6	18.5	18.16	108.14%	0.560	0.606	-
	Back side	0	4233	846.6	18.5	18.12	109.14%	0.550	0.600	-
	Top side	0	4132	826.4	18.5	18.29	104.95%	0.600	0.630	-
	Bottom side	0	4132	826.4	18.5	18.29	104.95%	0.018	0.019	-
	Left side	0	4132	826.4	18.5	18.29	104.95%	0.018	0.019	-
Right side	0	4132	826.4	18.5	18.29	104.95%	0.066	0.069	-	

\*\* - Spot Check With keyboard

\*\*\* - Spot Check With kickstand

\*\*\*\*- Spot Check With keyboard and kickstand

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**LTE Band 2 / Band 4 / Band 5 / Band 7**

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page			
												Measured	Reported				
LTE Band 2	20MHz	QPSK	1 RB	0	Back side	0	18700	1860	14.0	13.62	109.14%	0.751	0.820	229			
					Back side	0	18900	1880	14.0	13.60	109.65%	0.698	0.765	-			
					Back side	0	19100	1900	14.0	13.56	110.66%	0.666	0.737	-			
					Top side	0	18700	1860	14.0	13.62	109.14%	0.402	0.439	-			
					Bottom side	0	18700	1860	14.0	13.62	109.14%	0.004	0.005	-			
					Left side	0	18700	1860	14.0	13.62	109.14%	0.008	0.009	-			
			50 RB	0	Right side	0	18700	1860	14.0	13.62	109.14%	0.049	0.053	-			
					Back side	0	18700	1860	13.0	12.56	110.66%	0.640	0.708	-			
					Top side	0	18700	1860	13.0	12.56	110.66%	0.353	0.391	-			
					Bottom side	0	18700	1860	13.0	12.56	110.66%	0.004	0.004	-			
					Left side	0	18700	1860	13.0	12.56	110.66%	0.006	0.007	-			
					Right side	0	18700	1860	13.0	12.56	110.66%	0.037	0.041	-			
			100 RB	0	Back side	0	18700	1860	13.0	12.58	110.15%	0.649	0.714	-			
					Back side	0	20050	1720	14.5	14.39	102.57%	0.633	0.649	-			
			LTE Band 4	20MHz	QPSK	1 RB	0	Back side	0	20175	1732.5	14.5	14.35	103.51%	0.604	0.625	-
								Back side	0	20300	1745	14.5	14.42	101.86%	0.813	0.828	230
								Back side*	0	20300	1745	14.5	14.42	101.86%	0.809	0.824	-
								Back side**	0	20300	1745	14.5	14.42	101.86%	0.722	0.736	-
Back side***	0	20300						1745	14.5	14.42	101.86%	0.437	0.445	-			
Back side****	0	20300						1745	14.5	14.42	101.86%	0.433	0.442	-			
50 RB	0	Top side				0	20300	1745	14.5	14.42	101.86%	0.590	0.601	-			
		Bottom side				0	20300	1745	14.5	14.42	101.86%	0.001	0.001	-			
		Left side				0	20300	1745	14.5	14.42	101.86%	0.001	0.001	-			
		Right side				0	20300	1745	14.5	14.42	101.86%	0.032	0.032	-			
		Back side				0	20050	1720	13.5	13.40	102.33%	0.536	0.548	-			
		Top side				0	20050	1720	13.5	13.40	102.33%	0.371	0.380	-			
100 RB	0	Bottom side				0	20050	1720	13.5	13.40	102.33%	0.001	0.001	-			
		Left side				0	20050	1720	13.5	13.40	102.33%	0.001	0.001	-			
		Right side				0	20050	1720	13.5	13.40	102.33%	0.018	0.018	-			
		Back side				0	20300	1745	13.5	13.34	103.75%	0.529	0.549	-			
		Back side				0	20450	829	19.5	19.35	103.51%	0.683	0.707	231			
		Back side**				0	20450	829	19.5	19.35	103.51%	0.607	0.628	-			
LTE Band 5	10MHz	QPSK	1 RB	0	Back side***	0	20450	829	19.5	19.35	103.51%	0.367	0.380	-			
					Back side****	0	20450	829	19.5	19.35	103.51%	0.364	0.377	-			
					Back side	0	20525	836.5	19.5	19.34	103.75%	0.611	0.634	-			
					Back side	0	20600	844	19.5	19.31	104.47%	0.607	0.634	-			
					Top side	0	20450	829	19.5	19.35	103.51%	0.594	0.615	-			
					Bottom side	0	20450	829	19.5	19.35	103.51%	0.025	0.026	-			
			25 RB	0	Left side	0	20450	829	19.5	19.35	103.51%	0.023	0.024	-			
					Right side	0	20450	829	19.5	19.35	103.51%	0.060	0.062	-			
					Back side	0	20450	829	18.5	18.32	104.23%	0.494	0.515	-			
					Top side	0	20450	829	18.5	18.32	104.23%	0.416	0.433	-			
					Bottom side	0	20450	829	18.5	18.32	104.23%	0.014	0.015	-			
					Left side	0	20450	829	18.5	18.32	104.23%	0.017	0.017	-			
			LTE Band 7	20MHz	QPSK	1 RB	0	Right side	0	20450	829	18.5	18.32	104.23%	0.041	0.042	-
								Back side	0	20850	2510	13.0	12.60	109.65%	0.539	0.591	-
								Back side	0	21100	2535	13.0	12.62	109.14%	0.531	0.580	-
								Back side	0	21350	2560	13.0	12.65	108.39%	0.567	0.615	232
								Back side**	0	21350	2560	13.0	12.65	108.39%	0.504	0.546	-
								Back side***	0	21350	2560	13.0	12.65	108.39%	0.305	0.330	-
50 RB	0	Back side****				0	21350	2560	13.0	12.65	108.39%	0.302	0.328	-			
		Top side				0	21350	2560	13.0	12.65	108.39%	0.288	0.312	-			
		Bottom side				0	21350	2560	13.0	12.65	108.39%	0.001	0.001	-			
		Left side				0	21350	2560	13.0	12.65	108.39%	0.008	0.009	-			
		Right side				0	21350	2560	13.0	12.65	108.39%	0.062	0.067	-			
		Back side				0	21100	2535	12.0	11.60	109.65%	0.375	0.411	-			
7C	20/20MHz	QPSK				1-99	1-0	Top side	0	21100	2535	12.0	11.60	109.65%	0.115	0.126	-
								Bottom side	0	21100	2535	12.0	11.60	109.65%	0.001	0.001	-
								Left side	0	21100	2535	12.0	11.60	109.65%	0.006	0.007	-
								Right side	0	21100	2535	12.0	11.60	109.65%	0.049	0.054	-
								Back side	0	20850 /21048	2510 /2529.8	13.0	12.23	119.40%	0.513	0.613	-

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

\*\* - Spot Check With keyboard

\*\*\* - Spot Check With kickstand

\*\*\*\* - Spot Check With keyboard and kickstand

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**LTE Band 12 / Band 13 / Band 14 / Band 17 / Band 25**

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 12	10MHz	QPSK	1 RB	0	Back side	0	23060	704	18.5	18.43	101.62%	0.688	0.699	-
					Back side	0	23095	707.5	18.5	18.44	101.39%	0.702	0.712	233
					Back side**	0	23095	707.5	18.5	18.44	101.39%	0.624	0.632	-
					Back side***	0	23095	707.5	18.5	18.44	101.39%	0.377	0.383	-
					Back side****	0	23095	707.5	18.5	18.44	101.39%	0.374	0.380	-
					Back side	0	23130	711	18.5	18.41	102.09%	0.642	0.655	-
					Top side	0	23095	707.5	18.5	18.44	101.39%	0.313	0.317	-
					Bottom side	0	23095	707.5	18.5	18.44	101.39%	0.001	0.001	-
			Left side	0	23095	707.5	18.5	18.44	101.39%	0.010	0.010	-		
			Right side	0	23095	707.5	18.5	18.44	101.39%	0.015	0.015	-		
			Back side	0	23095	707.5	17.5	17.39	102.57%	0.518	0.531	-		
			Top side	0	23095	707.5	17.5	17.39	102.57%	0.252	0.258	-		
			Bottom side	0	23095	707.5	17.5	17.39	102.57%	0.001	0.001	-		
			Left side	0	23095	707.5	17.5	17.39	102.57%	0.008	0.008	-		
			Right side	0	23095	707.5	17.5	17.39	102.57%	0.014	0.014	-		
			LTE Band 13	10MHz	QPSK	1 RB	0	Back side	0	23230	782	19.0	18.75	105.93%
Top side	0	23230						782	19.0	18.75	105.93%	0.336	0.356	-
Bottom side	0	23230						782	19.0	18.75	105.93%	0.001	0.001	-
Left side	0	23230						782	19.0	18.75	105.93%	0.010	0.011	-
Right side	0	23230				782	19.0	18.75	105.93%	0.016	0.017	-		
Back side	0	23230				782	18.0	17.70	107.15%	0.556	0.596	-		
Top side	0	23230				782	18.0	17.70	107.15%	0.271	0.290	-		
Bottom side	0	23230				782	18.0	17.70	107.15%	0.001	0.001	-		
Left side	0	23230				782	18.0	17.70	107.15%	0.009	0.010	-		
Right side	0	23230				782	18.0	17.70	107.15%	0.010	0.011	-		
Back side	0	23230				782	18.0	17.70	107.15%	0.010	0.011	-		
LTE Band 14	10MHz	QPSK				1 RB	0	Back side	0	23330	793	19.5	19.39	102.57%
			Back side**	0	23330			793	19.5	19.39	102.57%	0.596	0.611	-
			Back side***	0	23330			793	19.5	19.39	102.57%	0.361	0.370	-
			Back side****	0	23330			793	19.5	19.39	102.57%	0.358	0.367	-
			Top side	0	23330			793	19.5	19.39	102.57%	0.346	0.355	-
			Bottom side	0	23330			793	19.5	19.39	102.57%	0.001	0.001	-
			Left side	0	23330			793	19.5	19.39	102.57%	0.011	0.011	-
			Right side	0	23330			793	19.5	19.39	102.57%	0.016	0.017	-
			Back side	0	23330	793	18.5	18.30	104.71%	0.579	0.607	-		
			Top side	0	23330	793	18.5	18.30	104.71%	0.282	0.295	-		
			Bottom side	0	23330	793	18.5	18.30	104.71%	0.001	0.001	-		
			Left side	0	23330	793	18.5	18.30	104.71%	0.009	0.010	-		
			Right side	0	23330	793	18.5	18.30	104.71%	0.011	0.011	-		
			Back side	0	23330	793	18.5	18.30	104.71%	0.011	0.011	-		
			Top side	0	23330	793	18.5	18.30	104.71%	0.011	0.011	-		
			LTE Band 17	10MHz	QPSK	1 RB	0	Back side	0	23780	709	19.0	18.77	105.44%
Back side	0	23790						710	19.0	18.83	103.99%	0.682	0.709	236
Back side**	0	23790						710	19.0	18.83	103.99%	0.606	0.630	-
Back side***	0	23790						710	19.0	18.83	103.99%	0.367	0.381	-
Back side****	0	23790						710	19.0	18.83	103.99%	0.364	0.378	-
Back side	0	23800						711	19.0	18.82	104.23%	0.630	0.657	-
Top side	0	23790						710	19.0	18.83	103.99%	0.305	0.317	-
Bottom side	0	23790						710	19.0	18.83	103.99%	0.001	0.001	-
Left side	0	23790				710	19.0	18.83	103.99%	0.009	0.010	-		
Right side	0	23790				710	19.0	18.83	103.99%	0.014	0.015	-		
Back side	0	23790				710	18.0	17.77	105.44%	0.510	0.538	-		
Top side	0	23790				710	18.0	17.77	105.44%	0.248	0.262	-		
Bottom side	0	23790				710	18.0	17.77	105.44%	0.001	0.001	-		
Left side	0	23790				710	18.0	17.77	105.44%	0.008	0.009	-		
Right side	0	23790				710	18.0	17.77	105.44%	0.013	0.014	-		
LTE Band 25	20MHz	QPSK				1 RB	0	Back side	0	26140	1860	13.5	13.49	100.23%
			Back side**	0	26140			1860	13.5	13.49	100.23%	0.696	0.697	-
			Back side***	0	26140			1860	13.5	13.49	100.23%	0.421	0.422	-
			Back side****	0	26140			1860	13.5	13.49	100.23%	0.417	0.418	-
			Back side	0	26365			1882.5	12.5	12.44	101.39%	0.679	0.682	-
			Back side	0	26590			1905	13.5	13.45	101.16%	0.650	0.657	-
			Top side	0	26140			1860	13.5	13.49	100.23%	0.390	0.391	-
			Bottom side	0	26140			1860	13.5	13.49	100.23%	0.004	0.004	-
			Left side	0	26140	1860	13.5	13.49	100.23%	0.008	0.008	-		
			Right side	0	26140	1860	13.5	13.49	100.23%	0.048	0.048	-		
			Back side	0	26365	1882.5	12.5	12.44	101.39%	0.622	0.631	-		
			Top side	0	26365	1882.5	12.5	12.44	101.39%	0.344	0.348	-		
			Bottom side	0	26365	1882.5	12.5	12.44	101.39%	0.003	0.003	-		
			Left side	0	26365	1882.5	12.5	12.44	101.39%	0.006	0.006	-		
			Right side	0	26365	1882.5	12.5	12.44	101.39%	0.036	0.036	-		

- \*\* - Spot Check With keyboard
- \*\*\* - Spot Check With kickstand
- \*\*\*\* - Spot Check With keyboard and kickstand

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**LTE Band 26 / Band 30 / Band 38 / Band 41**

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 26	15MHz	QPSK	1 RB	0	Back side	0	26765	821.5	18.5	18.36	103.28%	0.660	0.682	238
					Back side**	0	26765	821.5	18.5	18.36	103.28%	0.586	0.605	-
					Back side***	0	26765	821.5	18.5	18.36	103.28%	0.355	0.366	-
					Back side****	0	26765	821.5	18.5	18.36	103.28%	0.352	0.363	-
					Top side	0	26765	821.5	18.5	18.36	103.28%	0.407	0.420	-
					Bottom side	0	26765	821.5	18.5	18.36	103.28%	0.017	0.018	-
					Left side	0	26765	821.5	18.5	18.36	103.28%	0.016	0.016	-
			Right side	0	26765	821.5	18.5	18.36	103.28%	0.054	0.056	-		
			36 RB	0	Back side	0	26865	831.5	17.5	17.32	104.23%	0.447	0.466	-
					Top side	0	26865	831.5	17.5	17.32	104.23%	0.376	0.392	-
					Bottom side	0	26865	831.5	17.5	17.32	104.23%	0.013	0.013	-
					Left side	0	26865	831.5	17.5	17.32	104.23%	0.015	0.016	-
					Right side	0	26865	831.5	17.5	17.32	104.23%	0.028	0.029	-
					Back side	0	27710	2310	17.5	17.49	100.23%	0.617	0.618	239
Back side**	0	27710			2310	17.5	17.49	100.23%	0.548	0.549	-			
LTE Band 30	10MHz	QPSK	1 RB	0	Back side	0	27710	2310	17.5	17.49	100.23%	0.332	0.332	-
					Back side***	0	27710	2310	17.5	17.49	100.23%	0.329	0.330	-
					Back side****	0	27710	2310	17.5	17.49	100.23%	0.384	0.385	-
					Top side	0	27710	2310	17.5	17.49	100.23%	0.001	0.001	-
					Bottom side	0	27710	2310	17.5	17.49	100.23%	0.001	0.001	-
					Left side	0	27710	2310	17.5	17.49	100.23%	0.001	0.001	-
					Right side	0	27710	2310	17.5	17.49	100.23%	0.157	0.157	-
			25 RB	0	Back side	0	27710	2310	16.5	16.48	100.46%	0.492	0.494	-
					Top side	0	27710	2310	16.5	16.48	100.46%	0.239	0.240	-
					Bottom side	0	27710	2310	16.5	16.48	100.46%	0.001	0.001	-
					Left side	0	27710	2310	16.5	16.48	100.46%	0.001	0.001	-
					Right side	0	27710	2310	16.5	16.48	100.46%	0.111	0.112	-
					Back side	0	37850	2580	12.5	12.42	101.86%	0.592	0.603	240
					Back side**	0	37850	2580	12.5	12.42	101.86%	0.526	0.536	-
LTE Band 38	20MHz	QPSK	1 RB	0	Back side	0	37850	2580	12.5	12.42	101.86%	0.318	0.324	-
					Back side***	0	37850	2580	12.5	12.42	101.86%	0.316	0.322	-
					Back side****	0	37850	2580	12.5	12.38	102.80%	0.546	0.561	-
					Top side	0	38150	2610	12.5	12.38	102.80%	0.517	0.531	-
					Bottom side	0	37850	2580	12.5	12.42	101.86%	0.407	0.415	-
					Left side	0	37850	2580	12.5	12.42	101.86%	0.001	0.001	-
					Right side	0	37850	2580	12.5	12.42	101.86%	0.007	0.007	-
			50 RB	0	Back side	0	37850	2580	11.5	11.34	103.75%	0.331	0.344	-
					Top side	0	37850	2580	11.5	11.34	103.75%	0.211	0.219	-
					Bottom side	0	37850	2580	11.5	11.34	103.75%	0.001	0.001	-
					Left side	0	37850	2580	11.5	11.34	103.75%	0.004	0.004	-
					Right side	0	37850	2580	11.5	11.34	103.75%	0.050	0.052	-
					Back side	0	37850 /38048	2580 /2599.8	12.5	12.12	109.14%	0.270	0.295	-
					LTE Band 41	20MHz	QPSK	1 RB	0	Back side	0	39750	2506	14.0
Back side	0	40185	2549.5	14.0						13.73	106.41%	0.477	0.508	-
Back side	0	40620	2593	14.0						13.68	107.65%	0.442	0.475	-
Back side	0	41055	2636.5	14.0						13.75	105.93%	0.503	0.533	-
Back side	0	41490	2680	14.0						13.76	105.68%	0.568	0.600	241
Back side**	0	41490	2680	14.0						13.76	105.68%	0.505	0.533	-
Back side***	0	41490	2680	14.0						13.76	105.68%	0.305	0.323	-
50 RB	0	Back side****	0	41490				2680	14.0	13.76	105.68%	0.303	0.320	-
		Top side	0	41490				2680	14.0	13.76	105.68%	0.320	0.338	-
		Bottom side	0	41490				2680	14.0	13.76	105.68%	0.001	0.001	-
		Left side	0	41490				2680	14.0	13.76	105.68%	0.008	0.008	-
		Right side	0	41490				2680	14.0	13.76	105.68%	0.094	0.099	-
		Back side	0	41490				2680	13.0	12.73	106.41%	0.362	0.385	-
		Top side	0	41490				2680	13.0	12.73	106.41%	0.230	0.245	-
41C	20/20MHz	QPSK	1-99	1-0	Back side	0	39750 /39948	2506 /2525.8	14.0	13.28	118.03%	0.436	0.515	-

\*\* - Spot Check With keyboard

\*\*\* - Spot Check With kickstand

\*\*\*\* - Spot Check With keyboard and kickstand

**LTE Band 41 (HPUE) / Band 66**

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Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 41 (HPUE)	20MHz	QPSK	1 RB	0	Back side	0	39750	2506	13.0	12.68	107.65%	0.518	0.558	-		
					Back side	0	40185	2549.5	13.0	12.74	106.17%	0.554	0.588	-		
					Back side	0	40620	2593	13.0	12.71	106.91%	0.521	0.557	-		
					Back side	0	41055	2636.5	13.0	12.75	105.93%	0.563	0.596	242		
					Back side**	0	41055	2636.5	13.0	12.75	105.93%	0.500	0.530	-		
					Back side***	0	41055	2636.5	13.0	12.75	105.93%	0.303	0.320	-		
					Back side****	0	41055	2636.5	13.0	12.75	105.93%	0.300	0.318	-		
					Back side	0	41490	2680	13.0	12.74	106.17%	0.529	0.562	-		
					Top side	0	41055	2636.5	13.0	12.75	105.93%	0.519	0.550	-		
			Bottom side	0	41055	2636.5	13.0	12.75	105.93%	0.001	0.001	-				
			Left side	0	41055	2636.5	13.0	12.75	105.93%	0.001	0.001	-				
			Right side	0	41055	2636.5	13.0	12.75	105.93%	0.033	0.035	-				
			50 RB	0	Back side	0	41055	2636.5	12.0	11.74	106.17%	0.419	0.445	-		
					Top side	0	41055	2636.5	12.0	11.74	106.17%	0.408	0.434	-		
					Bottom side	0	41055	2636.5	12.0	11.74	106.17%	0.001	0.001	-		
					Left side	0	41055	2636.5	12.0	11.74	106.17%	0.001	0.001	-		
					Right side	0	41055	2636.5	12.0	11.74	106.17%	0.029	0.030	-		
					LTE Band 66	20MHz	QPSK	1 RB	0	Back side	0	39750 /39948	2506 /2525.8	13.0	12.67	107.89%
Back side	0	132072								1720	13.5	13.47	100.69%	0.749	0.754	-
Back side	0	132322								1745	13.5	13.44	101.39%	0.713	0.723	-
Back side	0	132572								1770	13.5	13.48	100.46%	0.771	0.775	243
Back side**	0	132572	1770	13.5						13.48	100.46%	0.685	0.688	-		
Back side***	0	132572	1770	13.5						13.48	100.46%	0.414	0.416	-		
Back side****	0	132572	1770	13.5						13.48	100.46%	0.411	0.413	-		
Top side	0	132572	1770	13.5						13.48	100.46%	0.645	0.648	-		
Bottom side	0	132572	1770	13.5						13.48	100.46%	0.001	0.001	-		
Left side	0	132572	1770	13.5				13.48	100.46%	0.001	0.001	-				
Right side	0	132572	1770	13.5				13.48	100.46%	0.026	0.026	-				
50 RB	0	Back side	0	132322				1745	12.5	12.46	100.93%	0.615	0.621	-		
		Top side	0	132322				1745	12.5	12.46	100.93%	0.515	0.520	-		
		Bottom side	0	132322				1745	12.5	12.46	100.93%	0.001	0.001	-		
		Left side	0	132322				1745	12.5	12.46	100.93%	0.001	0.001	-		
		Right side	0	132322				1745	12.5	12.46	100.93%	0.021	0.021	-		

- \*\* - Spot Check With keyboard
- \*\*\* - Spot Check With kickstand
- \*\*\*\* - Spot Check With keyboard and kickstand

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## Reduce Power TB mode

### WLAN Main Antenna

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	WLAN 802.11b	Back side	0	6	2437	17.00	16.92	1.005	101.86%	0.159	0.163	-
		Right side	0	6	2437	17.00	16.92	1.005	101.86%	0.001	0.001	-
		Left side	0	6	2437	17.00	16.92	1.005	101.86%	0.001	0.001	-
		Top side	0	2	2417	17.00	16.91	1.005	102.09%	0.220	0.226	-
		Top side	0	6	2437	17.00	16.92	1.005	101.86%	0.236	0.242	244
		Top side**	0	6	2437	17.00	16.92	1.005	101.86%	0.211	0.216	-
		Top side***	0	6	2437	17.00	16.92	1.005	101.86%	0.194	0.198	-
		Top side****	0	6	2437	17.00	16.92	1.005	101.86%	0.148	0.152	-
		Top side	0	10	2457	17.00	16.68	1.005	107.65%	0.200	0.216	-
		Bottom side	0	6	2437	17.00	16.92	1.005	101.86%	0.001	0.001	-
		Bottom side	0	39	2441	10.74	10.07	1.297	116.66%	0.033	0.050	-
		Bluetooth (GFSK)	Right side	0	39	2441	10.74	10.07	1.297	116.66%	0.001	0.002
	Left side		0	39	2441	10.74	10.07	1.297	116.66%	0.001	0.002	-
	Top side		0	0	2402	10.74	9.24	1.297	141.25%	0.050	0.092	-
	Top side		0	39	2441	10.74	10.07	1.297	116.66%	0.055	0.083	-
	Top side**		0	39	2441	10.74	10.07	1.297	116.66%	0.056	0.085	-
	Top side***		0	39	2441	10.74	10.07	1.297	116.66%	0.052	0.078	-
	Top side****		0	39	2441	10.74	10.07	1.297	116.66%	0.040	0.060	-
	Top side		0	78	2480	10.74	9.80	1.297	124.17%	0.063	0.101	245
	Bottom side		0	39	2441	10.74	10.07	1.297	116.66%	0.001	0.002	-

\*\* - Spot Check With keyboard

\*\*\* - Spot Check With kickstand

\*\*\*\* - Spot Check With keyboard and kickstand

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**WLAN Main Antenna**

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	WLAN 802.11n(40M) 5.2G	Back side	0	46	5230	15.00	14.76	1.010	105.68%	0.230	0.245	-
		Right side	0	46	5230	15.00	14.76	1.010	105.68%	0.001	0.001	-
		Left side	0	46	5230	15.00	14.76	1.010	105.68%	0.001	0.001	-
		Top side	0	46	5230	15.00	14.76	1.010	105.68%	0.600	0.640	248
		Top side**	0	46	5230	15.00	14.76	1.010	105.68%	0.537	0.573	-
		Top side***	0	46	5230	15.00	14.76	1.010	105.68%	0.493	0.526	-
		Top side****	0	46	5230	15.00	14.76	1.010	105.68%	0.376	0.402	-
		Bottom side	0	46	5230	15.00	14.76	1.010	105.68%	0.001	0.001	-
	WLAN 802.11a 5.3G	Back side	0	56	5280	15.00	14.82	1.021	104.23%	0.389	0.414	-
		Right side	0	56	5280	15.00	14.82	1.021	104.23%	0.001	0.001	-
		Left side	0	56	5280	15.00	14.82	1.021	104.23%	0.001	0.001	-
		Top side	0	52	5260	15.00	14.82	1.021	104.23%	0.768	0.817	-
		Top side	0	56	5280	15.00	14.82	1.021	104.23%	0.820	0.873	247
		Top side*	0	56	5280	15.00	14.82	1.021	104.23%	0.813	0.865	-
		Top side	0	60	5300	15.00	14.65	1.021	108.39%	0.777	0.860	-
		Bottom side	0	56	5280	15.00	14.82	1.021	104.23%	0.001	0.001	-
	WLAN 802.11n(40M) 5.3G	Back side	0	54	5270	15.00	14.73	1.010	106.41%	0.388	0.417	-
		Right side	0	54	5270	15.00	14.73	1.010	106.41%	0.001	0.001	-
		Left side	0	54	5270	15.00	14.73	1.010	106.41%	0.001	0.001	-
		Top side	0	54	5270	15.00	14.73	1.010	106.41%	0.816	0.877	248
		Top side**	0	54	5270	15.00	14.73	1.010	106.41%	0.730	0.785	-
		Top side***	0	54	5270	15.00	14.73	1.010	106.41%	0.670	0.720	-
		Top side****	0	54	5270	15.00	14.73	1.010	106.41%	0.512	0.550	-
		Top side	0	62	5310	10.80	10.57	1.010	105.39%	0.300	0.319	-
	WLAN 802.11ac(80M) 5.6G	Bottom side	0	54	5270	15.00	14.73	1.010	106.41%	0.001	0.001	-
		Back side	0	138	5690	15.00	14.99	1.013	100.23%	0.228	0.231	-
		Right side	0	138	5690	15.00	14.99	1.013	100.23%	0.001	0.001	-
		Left side	0	138	5690	15.00	14.99	1.013	100.23%	0.001	0.001	-
		Top side	0	106	5530	12.60	12.43	1.013	103.88%	0.355	0.374	-
		Top side	0	138	5690	15.00	14.99	1.013	100.23%	0.461	0.468	249
		Top side**	0	138	5690	15.00	14.99	1.013	100.23%	0.412	0.419	-
		Top side***	0	138	5690	15.00	14.99	1.013	100.23%	0.379	0.384	-
	WLAN 802.11ac(80M) 5.8G	Top side****	0	138	5690	15.00	14.99	1.013	100.23%	0.289	0.294	-
		Bottom side	0	138	5690	15.00	14.99	1.013	100.23%	0.001	0.001	-
		Back side	0	155	5775	15.00	14.85	1.013	103.51%	0.288	0.302	-
		Right side	0	155	5775	15.00	14.85	1.013	103.51%	0.001	0.001	-
		Left side	0	155	5775	15.00	14.85	1.013	103.51%	0.001	0.001	-
		Top side	0	155	5775	15.00	14.85	1.013	103.51%	0.550	0.577	250
		Top side**	0	155	5775	15.00	14.85	1.013	103.51%	0.492	0.516	-
		Top side***	0	155	5775	15.00	14.85	1.013	103.51%	0.452	0.474	-
	Top side****	0	155	5775	15.00	14.85	1.013	103.51%	0.345	0.362	-	
	Bottom side	0	155	5775	15.00	14.85	1.013	103.51%	0.001	0.001	-	

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

\*\* - Spot Check With keyboard

\*\*\* - Spot Check With kickstand

\*\*\*\* - Spot Check With keyboard and kickstand

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### WLAN Aux Antenna

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page	
										Measured	Reported		
Aux	WLAN 802.11b	Back side	0	2	2417	17.00	16.90	1.005	102.33%	0.929	0.955	251	
		Back side*	0	2	2417	17.00	16.90	1.005	102.33%	0.911	0.937	-	
		Back side**	0	2	2417	17.00	16.90	1.005	102.33%	0.470	0.483	-	
		Back side***	0	2	2417	17.00	16.90	1.005	102.33%	0.341	0.351	-	
		Back side****	0	2	2417	17.00	16.90	1.005	102.33%	0.239	0.246	-	
		Back side	0	6	2437	17.00	16.91	1.005	102.09%	0.869	0.892	-	
		Back side	0	10	2457	17.00	16.99	1.005	100.23%	0.582	0.586	-	
		Left side	0	10	2457	17.00	16.99	1.005	100.23%	0.132	0.133	-	
		Right side	0	10	2457	17.00	16.99	1.005	100.23%	0.001	0.001	-	
		Top side	0	10	2457	17.00	16.99	1.005	100.23%	0.576	0.580	-	
		Bottom side	0	10	2457	17.00	16.99	1.005	100.23%	0.001	0.001	-	
		Back side	0	38	5190	15.00	14.70	1.010	107.15%	0.047	0.051	-	
		WLAN 802.11n(40M) 5.2G	Left side	0	38	5190	15.00	14.70	1.010	107.15%	0.001	0.001	-
			Right side	0	38	5190	15.00	14.70	1.010	107.15%	0.001	0.001	-
	Top side		0	38	5190	15.00	14.70	1.010	107.15%	0.094	0.102	252	
	Top side**		0	38	5190	15.00	14.70	1.010	107.15%	0.084	0.091	-	
	Top side***		0	38	5190	15.00	14.70	1.010	107.15%	0.077	0.084	-	
	Top side****		0	38	5190	15.00	14.70	1.010	107.15%	0.059	0.064	-	
	Top side		0	46	5230	15.00	14.66	1.010	108.14%	0.088	0.096	-	
	Bottom side		0	38	5190	15.00	14.70	1.010	107.15%	0.001	0.001	-	
	Back side		0	54	5270	15.00	14.5	1.010	112.20%	0.087	0.099	-	
	WLAN 802.11n(40M) 5.3G		Left side	0	54	5270	15.00	14.5	1.010	112.20%	0.001	0.001	-
		Right side	0	54	5270	15.00	14.5	1.010	112.20%	0.001	0.001	-	
		Top side	0	54	5270	15.00	14.5	1.010	112.20%	0.161	0.182	253	
		Top side**	0	54	5270	15.00	14.5	1.010	112.20%	0.144	0.163	-	
		Top side***	0	54	5270	15.00	14.5	1.010	112.20%	0.132	0.150	-	
		Top side****	0	54	5270	15.00	14.5	1.010	112.20%	0.101	0.114	-	
		Top side	0	62	5310	11.10	10.88	1.010	105.15%	0.068	0.072	-	
		Bottom side	0	54	5270	15.00	14.5	1.010	112.20%	0.001	0.001	-	
		Back side	0	142	5710	15.00	14.91	1.010	102.09%	0.605	0.624	-	
		WLAN 802.11n(40M) 5.6G	Left side	0	142	5710	15.00	14.91	1.010	102.09%	0.200	0.206	-
	Right side		0	142	5710	15.00	14.91	1.010	102.09%	0.001	0.001	-	
	Top side		0	110	5550	15.00	14.76	1.010	105.68%	0.956	1.020	254	
	Top side		0	142	5710	15.00	14.91	1.010	102.09%	0.905	0.933	-	
	Bottom side		0	142	5710	15.00	14.91	1.010	102.09%	0.001	0.001	-	
	WLAN 802.11ac(80M) 5.6G		Back side	0	122	5610	15.00	14.82	1.013	104.23%	0.623	0.658	-
			Back side	0	138	5690	15.00	14.92	1.013	101.86%	0.808	0.834	-
			Left side	0	138	5690	15.00	14.92	1.013	101.86%	0.221	0.228	-
			Right side	0	138	5690	15.00	14.92	1.013	101.86%	0.001	0.001	-
			Top side	0	106	5530	13.00	12.81	1.013	104.36%	0.588	0.622	-
		Top side	0	122	5610	15.00	14.82	1.013	104.23%	0.822	0.868	-	
		Top side	0	138	5690	15.00	14.92	1.013	101.86%	0.990	1.022	255	
		Top side*	0	138	5690	15.00	14.92	1.013	101.86%	0.973	1.004	-	
		Top side**	0	138	5690	15.00	14.92	1.013	101.86%	0.886	0.914	-	
		Top side***	0	138	5690	15.00	14.92	1.013	101.86%	0.813	0.839	-	
		Top side****	0	138	5690	15.00	14.92	1.013	101.86%	0.621	0.641	-	
		Bottom side	0	138	5690	15.00	14.92	1.013	101.86%	0.001	0.001	-	
		WLAN 802.11n(40M) 5.8G	Back side	0	151	5755	15.00	14.88	1.010	102.80%	0.888	0.922	-
			Back side	0	159	5795	15.00	14.96	1.010	100.93%	0.900	0.917	-
	Left side		0	159	5795	15.00	14.96	1.010	100.93%	0.278	0.283	-	
	Right side		0	159	5795	15.00	14.96	1.010	100.93%	0.001	0.001	-	
	Top side		0	151	5755	15.00	14.88	1.010	102.80%	0.979	1.016	-	
	Top side		0	159	5795	15.00	14.96	1.010	100.93%	0.983	1.002	256	
	Bottom side		0	159	5795	15.00	14.96	1.010	100.93%	0.001	0.001	-	
	WLAN 802.11ac(80M) 5.8G		Back side	0	155	5775	15.00	14.99	1.013	100.23%	0.919	0.933	-
			Left side	0	155	5775	15.00	14.99	1.013	100.23%	0.288	0.292	-
			Right side	0	155	5775	15.00	14.99	1.013	100.23%	0.001	0.001	-
		Top side	0	155	5775	15.00	14.99	1.013	100.23%	1.110	1.127	257	
		Top side*	0	155	5775	15.00	14.99	1.013	100.23%	1.040	1.056	-	
		Top side**	0	155	5775	15.00	14.99	1.013	100.23%	0.993	1.008	-	
		Top side***	0	155	5775	15.00	14.99	1.013	100.23%	0.911	0.925	-	
		Top side****	0	155	5775	15.00	14.99	1.013	100.23%	0.696	0.707	-	
		Bottom side	0	155	5775	15.00	14.99	1.013	100.23%	0.001	0.001	-	

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

\*\* - Spot Check With keyboard

\*\*\* - Spot Check With kickstand

\*\*\*\* - Spot Check With keyboard and kickstand

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Note:

$$\text{Scaling} = \frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P_2(\text{mW})}{P_1(\text{mW})} = 10^{\left(\frac{P_2 - P_1}{10}\right)} (\text{dBm})$$

Reported SAR = measured SAR \* (scaling)

Where P2 is maximum specified power, P1 is measured conducted power

### 2.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.sgs.com.tw](http://www.sgs.com.tw)

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### 3. Simultaneous Transmission Analysis

#### Simultaneous Transmission Scenarios:

NO.	Simultaneous Transmit Configurations	Body
1	WWAN + 2.4GHz MIMO	YES
2	WWAN + 5GHz MIMO	YES
3	WWAN + BT + 5GHz MIMO	YES
4	WWAN + 2.4GHz WLAN Ant 2 + BT Ant 1	YES
5	WWAN + 5GHz WLAN Ant 2 + BT Ant 1	YES

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### 3.1 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance (mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

### 3.2 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by  $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and  $R_i$  is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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### Reduced power TB mode

	Exposure Position	Reported SAR						1+2+3 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+4+5+6 Summed 1g SAR (W/kg)	SPLSR
		1	2	3	4	5	6						
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Max. Avg. 1g SAR (W/kg)	2.4GHz WLAN Avg. Avg. 1g SAR (W/kg)	5GHz WLAN Max. Avg. 1g SAR (W/kg)	5GHz WLAN Avg. Avg. 1g SAR (W/kg)	Bluetooth Max. Avg. Estimated 1g SAR (W/kg)						
WCDMA I	Back side_0mm	0.792	0.163	0.955	0.417	0.933	0.050	1.910	2.142	1.797	1.775	2.192	Yes
	Top side_0mm	0.382	0.242	0.580	0.877	1.127	0.101	1.204	2.388	1.064	1.810	2.487	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.003	0.001	0.133	0.001	0.292	0.002	0.137	0.296	0.138	0.297	0.298	No
	Right side_0mm	0.007	0.001	0.001	0.001	0.001	0.002	0.009	0.009	0.010	0.010	0.011	No
	Back side_0mm	0.653	0.163	0.955	0.417	0.933	0.050	1.771	2.063	1.658	1.636	2.063	Yes
WCDMA V	Top side_0mm	0.630	0.242	0.580	0.877	1.127	0.101	1.452	2.634	1.312	1.859	2.736	Yes
	Bottom side_0mm	0.019	0.001	0.001	0.001	0.001	0.002	0.021	0.021	0.022	0.022	0.023	No
	Left side_0mm	0.019	0.001	0.133	0.001	0.292	0.002	0.153	0.312	0.154	0.313	0.314	No
	Right side_0mm	0.069	0.001	0.001	0.001	0.001	0.002	0.071	0.071	0.072	0.072	0.073	No
	Back side_0mm	0.820	0.163	0.955	0.417	0.933	0.050	1.938	2.170	1.835	1.803	2.225	Yes
	Top side_0mm	0.439	0.242	0.580	0.877	1.127	0.101	1.261	2.443	1.120	1.567	2.544	Yes
LTE B2	Bottom side_0mm	0.005	0.001	0.001	0.001	0.001	0.002	0.007	0.007	0.008	0.008	0.009	No
	Left side_0mm	0.009	0.001	0.133	0.001	0.292	0.002	0.145	0.302	0.144	0.303	0.304	No
	Right side_0mm	0.053	0.001	0.001	0.001	0.001	0.002	0.056	0.056	0.056	0.056	0.057	No
	Back side_0mm	0.828	0.163	0.955	0.417	0.933	0.050	1.965	2.178	1.838	1.811	2.231	Yes
	Top side_0mm	0.601	0.242	0.580	0.877	1.127	0.101	1.423	2.605	1.283	1.828	2.705	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
LTE B4	Left side_0mm	0.001	0.001	0.133	0.001	0.292	0.002	0.135	0.294	0.136	0.295	0.296	No
	Right side_0mm	0.032	0.001	0.001	0.001	0.001	0.002	0.034	0.034	0.035	0.035	0.036	No
	Back side_0mm	0.707	0.163	0.955	0.417	0.933	0.050	1.825	2.057	1.712	1.690	2.107	Yes
	Top side_0mm	0.615	0.242	0.580	0.877	1.127	0.101	1.436	2.619	1.296	1.843	2.720	Yes
	Bottom side_0mm	0.026	0.001	0.001	0.001	0.001	0.002	0.028	0.028	0.029	0.029	0.030	No
	Left side_0mm	0.024	0.001	0.133	0.001	0.292	0.002	0.158	0.317	0.159	0.318	0.319	No
LTE B5	Right side_0mm	0.062	0.001	0.001	0.001	0.001	0.002	0.064	0.064	0.065	0.065	0.066	No
	Back side_0mm	0.615	0.163	0.955	0.417	0.933	0.050	1.733	1.965	1.620	1.598	2.015	Yes
	Top side_0mm	0.312	0.242	0.580	0.877	1.127	0.101	1.134	2.316	0.994	1.541	2.418	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.009	0.001	0.133	0.001	0.292	0.002	0.143	0.302	0.144	0.303	0.304	No
	Right side_0mm	0.067	0.001	0.001	0.001	0.001	0.002	0.069	0.069	0.070	0.070	0.071	No
LTE B12	Back side_0mm	0.712	0.163	0.955	0.417	0.933	0.050	1.836	2.062	1.717	1.695	2.112	Yes
	Top side_0mm	0.317	0.242	0.580	0.877	1.127	0.101	1.139	2.301	0.999	1.546	2.423	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.010	0.001	0.133	0.001	0.292	0.002	0.144	0.303	0.145	0.304	0.305	No
	Right side_0mm	0.058	0.001	0.001	0.001	0.001	0.002	0.061	0.061	0.062	0.062	0.063	No
	Back side_0mm	0.711	0.163	0.955	0.417	0.933	0.050	1.825	2.051	1.716	1.694	2.111	Yes
LTE B13	Top side_0mm	0.356	0.242	0.580	0.877	1.127	0.101	1.178	2.360	1.028	1.574	2.451	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.011	0.001	0.133	0.001	0.292	0.002	0.145	0.304	0.146	0.305	0.306	No
	Right side_0mm	0.017	0.001	0.001	0.001	0.001	0.002	0.019	0.019	0.020	0.020	0.021	No
	Back side_0mm	0.707	0.163	0.955	0.417	0.933	0.050	1.825	2.057	1.712	1.690	2.107	Yes
	Top side_0mm	0.385	0.242	0.580	0.877	1.127	0.101	1.177	2.358	1.037	1.584	2.461	Yes
LTE B14	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.011	0.001	0.133	0.001	0.292	0.002	0.145	0.304	0.146	0.305	0.306	No
	Right side_0mm	0.017	0.001	0.001	0.001	0.001	0.002	0.019	0.019	0.020	0.020	0.021	No
	Back side_0mm	0.709	0.163	0.955	0.417	0.933	0.050	1.827	2.059	1.715	1.692	2.109	Yes
	Top side_0mm	0.317	0.242	0.580	0.877	1.127	0.101	1.139	2.321	0.999	1.546	2.423	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
LTE B17	Left side_0mm	0.010	0.001	0.133	0.001	0.292	0.002	0.144	0.303	0.145	0.304	0.305	No
	Right side_0mm	0.015	0.001	0.001	0.001	0.001	0.002	0.017	0.017	0.018	0.018	0.019	No
	Back side_0mm	0.785	0.163	0.955	0.417	0.933	0.050	1.903	2.135	1.790	1.768	2.185	Yes
	Top side_0mm	0.391	0.242	0.580	0.877	1.127	0.101	1.213	2.395	1.073	1.620	2.497	Yes
	Bottom side_0mm	0.004	0.001	0.001	0.001	0.001	0.002	0.006	0.006	0.007	0.007	0.008	No
	Left side_0mm	0.008	0.001	0.133	0.001	0.292	0.002	0.142	0.301	0.143	0.302	0.303	No
LTE B25	Right side_0mm	0.048	0.001	0.001	0.001	0.001	0.002	0.050	0.050	0.051	0.051	0.052	No
	Back side_0mm	0.822	0.163	0.955	0.417	0.933	0.050	1.956	2.202	1.857	1.835	2.252	Yes
	Top side_0mm	0.420	0.242	0.580	0.877	1.127	0.101	1.243	2.424	1.102	1.549	2.526	Yes
	Bottom side_0mm	0.018	0.001	0.001	0.001	0.001	0.002	0.020	0.020	0.021	0.021	0.022	No
	Left side_0mm	0.016	0.001	0.133	0.001	0.292	0.002	0.150	0.310	0.151	0.310	0.312	No
	Right side_0mm	0.056	0.001	0.001	0.001	0.001	0.002	0.058	0.058	0.059	0.059	0.060	No
LTE B30	Back side_0mm	0.618	0.163	0.955	0.417	0.933	0.050	1.737	1.968	1.624	1.601	2.018	Yes
	Top side_0mm	0.385	0.242	0.580	0.877	1.127	0.101	1.206	2.389	1.066	1.613	2.490	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.001	0.001	0.133	0.001	0.292	0.002	0.135	0.294	0.136	0.295	0.296	No
	Right side_0mm	0.157	0.001	0.001	0.001	0.001	0.002	0.159	0.159	0.160	0.160	0.161	No
	Back side_0mm	0.603	0.163	0.955	0.417	0.933	0.050	1.721	1.953	1.608	1.586	2.003	Yes
LTE B38	Top side_0mm	0.415	0.242	0.580	0.877	1.127	0.101	1.236	2.419	1.096	1.643	2.520	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.007	0.001	0.133	0.001	0.292	0.002	0.141	0.300	0.142	0.301	0.302	No
	Right side_0mm	0.052	0.001	0.001	0.001	0.001	0.002	0.054	0.054	0.055	0.055	0.056	No
	Back side_0mm	0.600	0.163	0.955	0.417	0.933	0.050	1.718	1.950	1.606	1.583	2.000	Yes
	Top side_0mm	0.338	0.242	0.580	0.877	1.127	0.101	1.160	2.342	1.020	1.567	2.444	Yes
LTE B41	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.008	0.001	0.133	0.001	0.292	0.002	0.142	0.301	0.143	0.302	0.303	No
	Right side_0mm	0.059	0.001	0.001	0.001	0.001	0.002	0.061	0.061	0.062	0.062	0.063	No
	Back side_0mm	0.596	0.163	0.955	0.417	0.933	0.050	1.715	1.946	1.602	1.579	1.996	Yes
	Top side_0mm	0.520	0.242	0.580	0.877	1.127	0.101	1.272	2.454	1.222	1.770	2.656	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
LTE B41_HPLTE	Left side_0mm	0.001	0.001	0.133	0.001	0.292	0.002	0.135	0.294	0.136	0.295	0.296	No
	Right side_0mm	0.035	0.001	0.001	0.001	0.001	0.002	0.037	0.037	0.038	0.038	0.039	No
	Back side_0mm	0.775	0.163	0.955	0.417	0.933	0.050	1.883	2.125	1.780	1.758	2.175	Yes
	Top side_0mm	0.648	0.242	0.580	0.877	1.127	0.101	1.470	2.652	1.330	1.878	2.763	Yes
	Bottom side_0mm	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	No
	Left side_0mm	0.001	0.001	0.133	0.001	0.292	0.002	0.135	0.294	0.136	0.295	0.296	No
LTE B66	Right side_0mm	0.026	0.001	0.001	0.001	0.001	0.002	0.028	0.028	0.029	0.029	0.030	No

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**TB Reduce\_WWAN+WLAN Main 2.45G**

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Back Side	0.792	0	86.03	80.17	6.54	167.8	0.96	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Back Side	0.653	0	86.13	57.98	6.49	145.7	0.82	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B2	Back Side	0.82	0	87.45	80.28	6.61	167.9	0.98	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B4	Back Side	0.828	0	91.55	62.81	7.03	150.6	0.99	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B5	Back Side	0.707	0	87.56	58	6.53	145.7	0.87	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B7	Back Side	0.615	0	88.63	50.93	7.05	138.7	0.78	0.00	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B12	Back Side	0.712	0	86.65	86.38	7.02	174.1	0.88	0.00	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B13	Back Side	0.711	0	87.02	56.07	6.92	143.8	0.87	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B14	Back Side	0.707	0	87.02	66.99	6.16	154.6	0.87	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B17	Back Side	0.709	0	87.02	56.01	6.16	143.7	0.87	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B25	Back Side	0.785	0	86.93	77.07	6.01	164.7	0.95	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B26_FCC	Back Side	0.682	0	87.04	57.49	5.84	145.1	0.85	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B30	Back Side	0.618	0	86.65	83.58	6.01	171.2	0.78	0.00	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B38	Back Side	0.603	0	88.86	49.99	6.55	137.7	0.77	0.00	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41	Back Side	0.6	0	88.62	50	6.48	137.7	0.76	0.00	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41_HPUE	Back Side	0.596	0	88.84	49.9	6.55	137.7	0.76	0.00	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B66	Back Side	0.775	0	90.45	61.59	6.62	149.4	0.94	0.01	Not required
WLAN2.4G		0.163	0	85.4	-87.4	-2.65				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WLAN2.4G	Back Side	0.163	0	85.4	-87.4	-2.65	82.8	1.12	0.01	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

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## WCDMA Band II



## WCDMA Band V



## LTE Band 2



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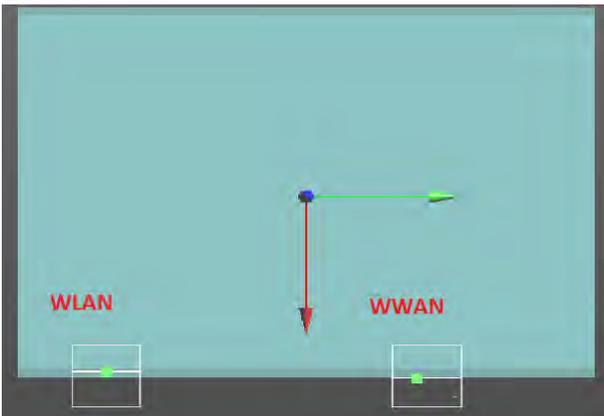
## LTE Band 4



## LTE Band 5



## LTE Band 7



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## LTE Band 12



## LTE Band 13



## LTE Band 14



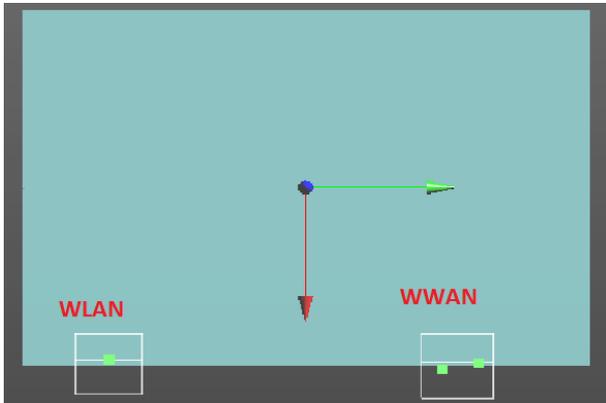
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## LTE Band 17



## LTE Band 25



## LTE Band 26



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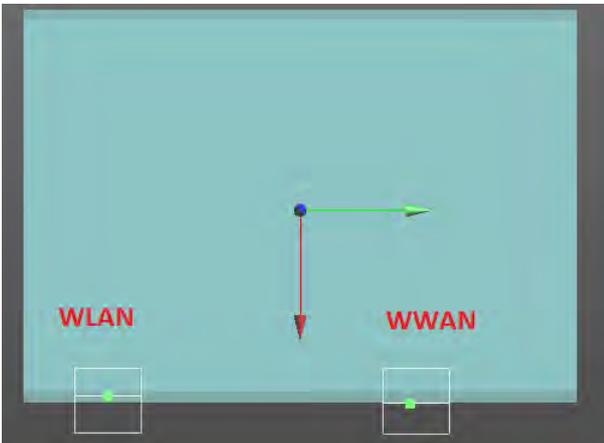
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## LTE Band 30



## LTE Band 38



## LTE Band 41



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## LTE Band 41(HPUE)



## LTE Band 66



## 2.4G Main to 2.4G Aux



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**TB Reduce\_WWAN +WLAN Aux 2.45G**

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Back Side	0.792	0	86.03	80.17	6.54	85.3	1.75	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Back Side	0.653	0	86.13	57.98	6.49	63.3	1.61	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B2	Back Side	0.82	0	87.45	80.28	6.61	85.5	1.78	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B4	Back Side	0.828	0	91.55	62.81	7.03	68.5	1.78	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B5	Back Side	0.707	0	87.56	58	6.53	63.4	1.66	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B7	Back Side	0.615	0	88.63	50.93	7.05	56.6	1.57	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B12	Back Side	0.712	0	86.65	86.38	7.02	91.6	1.67	0.02	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B13	Back Side	0.711	0	87.02	56.07	6.92	61.5	1.67	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B14	Back Side	0.707	0	87.02	66.99	6.16	72.2	1.66	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B17	Back Side	0.709	0	87.02	56.01	6.16	61.4	1.66	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B25	Back Side	0.785	0	86.93	77.07	6.01	82.2	1.74	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B26_FCC	Back Side	0.682	0	87.04	57.49	5.84	62.8	1.64	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B30	Back Side	0.618	0	86.65	83.58	6.01	88.7	1.57	0.02	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B38	Back Side	0.603	0	88.86	49.99	6.55	55.6	1.56	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41	Back Side	0.6	0	88.62	50	6.48	55.5	1.56	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41_HPUE	Back Side	0.596	0	88.84	49.9	6.55	55.5	1.55	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B66	Back Side	0.775	0	90.45	61.59	6.62	67.1	1.73	0.03	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

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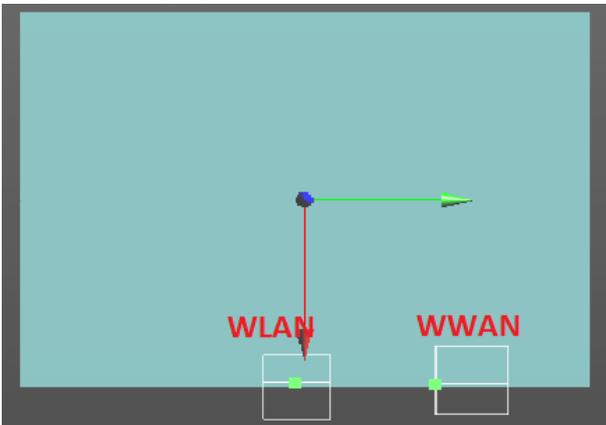
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## WCDMA Band II



## WCDMA Band V



## LTE Band 2



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## LTE Band 4



## LTE Band 5



## LTE Band 7



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## LTE Band 12



## LTE Band 13



## LTE Band 14



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## LTE Band 17



## LTE Band 25



## LTE Band 26



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## LTE Band 30



## LTE Band 38



## LTE Band 41



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### LTE Band 41(HPUE)



### LTE Band 66



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**TB Reduce\_WWAN+WLAN Main 5G**

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Back Side	0.792	0	86.03	80.17	6.54	175.6	1.21	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Back Side	0.653	0	86.13	57.98	6.49	153.5	1.07	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B2	Back Side	0.82	0	87.45	80.28	6.61	175.7	1.24	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B4	Back Side	0.828	0	91.55	62.81	7.03	158.4	1.25	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B5	Back Side	0.707	0	87.56	58	6.53	153.5	1.12	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B7	Back Side	0.615	0	88.63	50.93	7.05	146.5	1.03	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B12	Back Side	0.712	0	86.65	86.38	7.02	181.8	1.13	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B13	Back Side	0.711	0	87.02	56.07	6.92	151.6	1.13	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B14	Back Side	0.707	0	87.02	66.99	6.16	162.4	1.12	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B17	Back Side	0.709	0	87.02	56.01	6.16	151.5	1.13	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B25	Back Side	0.785	0	86.93	77.07	6.01	172.5	1.20	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B26_FCC	Back Side	0.682	0	87.04	57.49	5.84	152.9	1.10	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B30	Back Side	0.618	0	86.65	83.58	6.01	179.0	1.04	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B38	Back Side	0.603	0	88.86	49.99	6.55	145.5	1.02	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41	Back Side	0.6	0	88.62	50	6.48	145.5	1.02	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41_HPUE	Back Side	0.596	0	88.84	49.9	6.55	145.4	1.01	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B66	Back Side	0.775	0	90.45	61.59	6.62	157.1	1.19	0.01	Not required
WLAN5G		0.417	0	86.6	-95.2	-2.69				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WLAN5G	Back Side	0.417	0	86.6	-95.2	-2.69	91.7	1.35	0.02	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
BT	Back Side	0.05	0	85.2	-84.6	-2.77	81.0	0.98	0.01	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

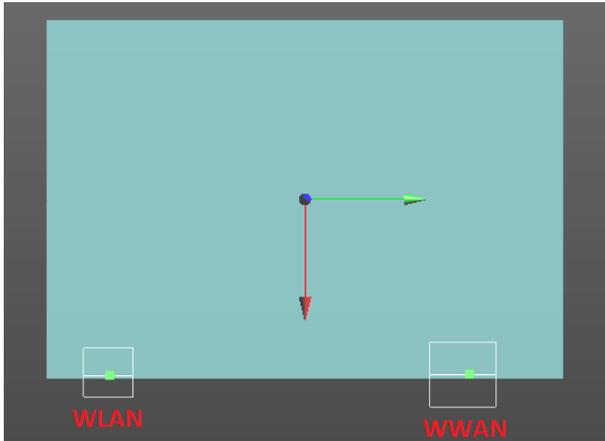
Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WLAN5G	Back Side	0.417	0	86.6	-95.2	-2.69	10.7	0.47	0.03	Not required
BT		0.05	0	85.2	-84.6	-2.77				

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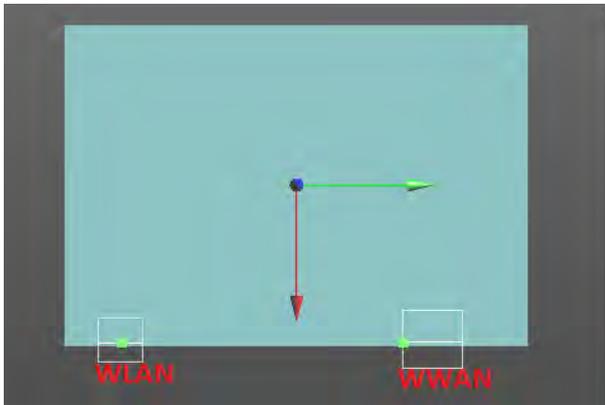
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## WCDMA Band II



## WCDMA Band V



## LTE Band 2



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## LTE Band 4



## LTE Band 5



## LTE Band 7



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## LTE Band 12



## LTE Band 13



## LTE Band 14



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## LTE Band 17



## LTE Band 25



## LTE Band 26

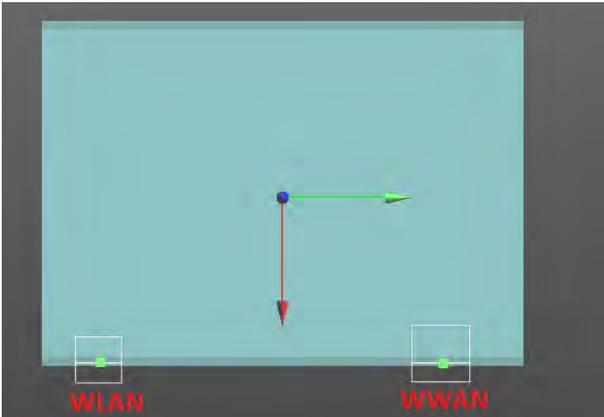


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## LTE Band 30



## LTE Band 38



## LTE Band 41



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## LTE Band 41(HPUE)



## LTE Band 66



## 5G Main to 5G Aux



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**TB Reduce\_WWAN +WLAN Aux 5G**

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Back Side	0.792	0	86.03	80.17	6.54	84.4	1.73	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Back Side	0.653	0	86.13	57.98	6.49	62.4	1.59	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B2	Back Side	0.82	0	87.45	80.28	6.61	84.5	1.75	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B4	Back Side	0.828	0	91.55	62.81	7.03	67.7	1.76	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B5	Back Side	0.707	0	87.56	58	6.53	62.5	1.64	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B7	Back Side	0.615	0	88.63	50.93	7.05	55.7	1.55	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B12	Back Side	0.712	0	86.65	86.38	7.02	90.6	1.65	0.02	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B13	Back Side	0.711	0	87.02	56.07	6.92	60.6	1.64	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B14	Back Side	0.707	0	87.02	66.99	6.16	71.3	1.64	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B17	Back Side	0.709	0	87.02	56.01	6.16	60.4	1.64	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B25	Back Side	0.785	0	86.93	77.07	6.01	81.3	1.72	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B26_FCC	Back Side	0.682	0	87.04	57.49	5.84	61.9	1.62	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B30	Back Side	0.618	0	86.65	83.58	6.01	87.7	1.55	0.02	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B38	Back Side	0.603	0	88.86	49.99	6.55	54.7	1.54	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41	Back Side	0.6	0	88.62	50	6.48	54.7	1.53	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41_HPUE	Back Side	0.596	0	88.84	49.9	6.55	54.7	1.53	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

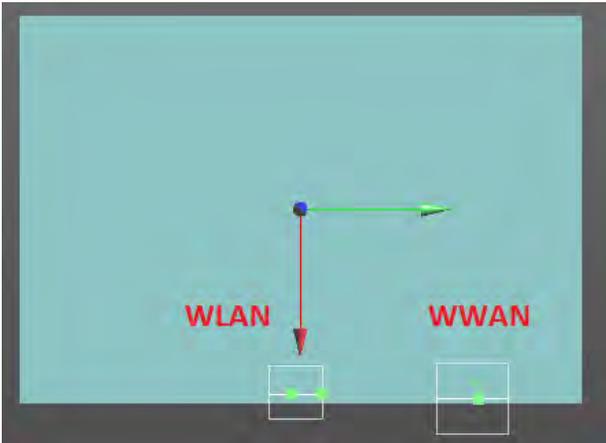
Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B66	Back Side	0.775	0	90.45	61.59	6.62	66.3	1.71	0.03	Not required
WLAN5G		0.933	0	83.3	-3.6	-3.16				

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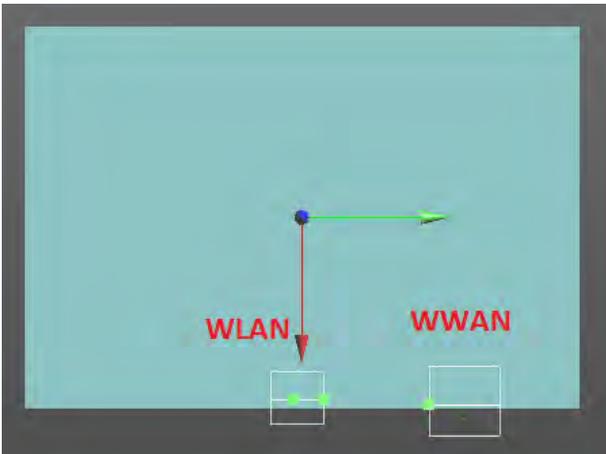
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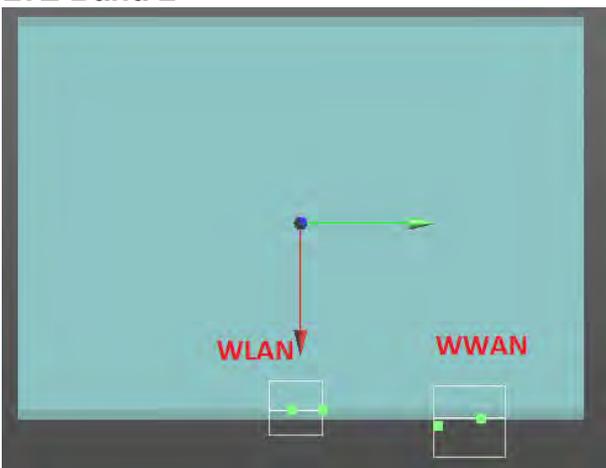
## WCDMA Band II



## WCDMA Band V



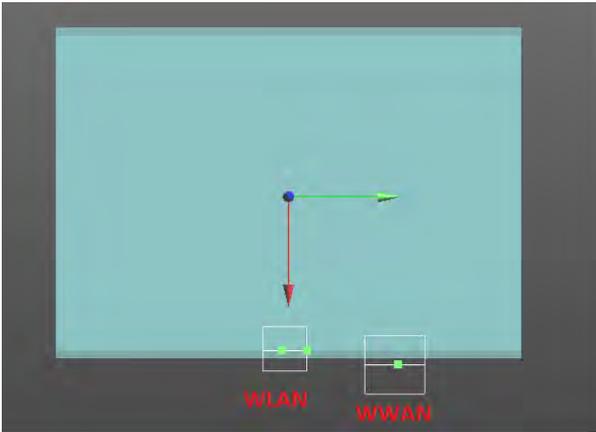
## LTE Band 2



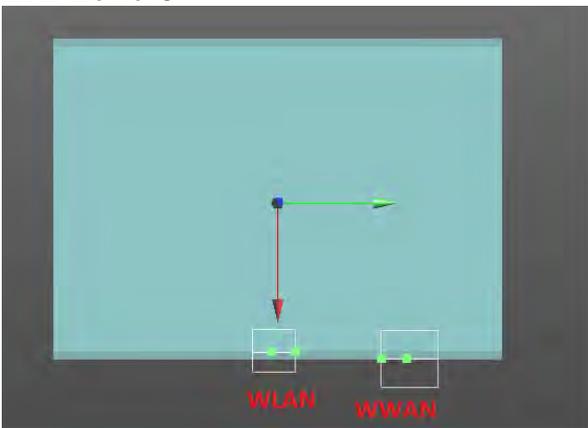
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## LTE Band 4



## LTE Band 5



## LTE Band 7



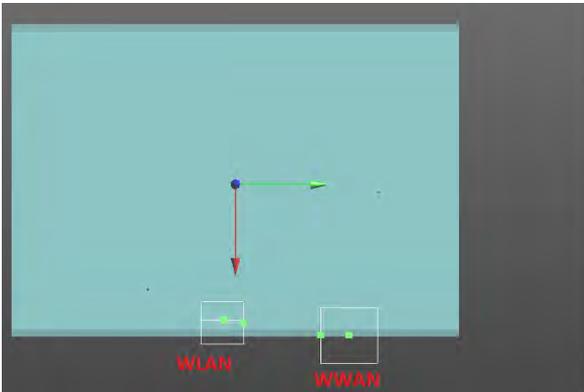
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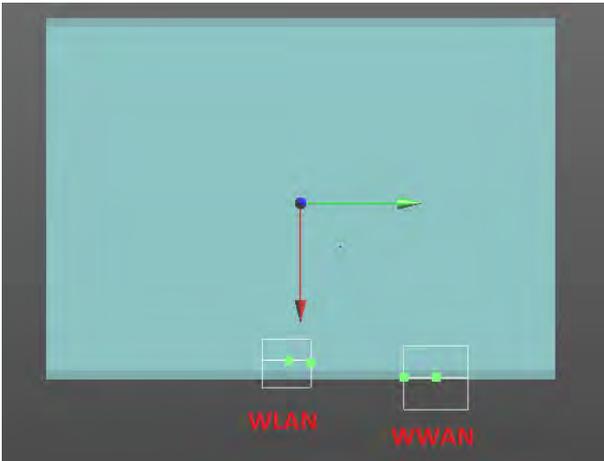
## LTE Band 12



## LTE Band 13



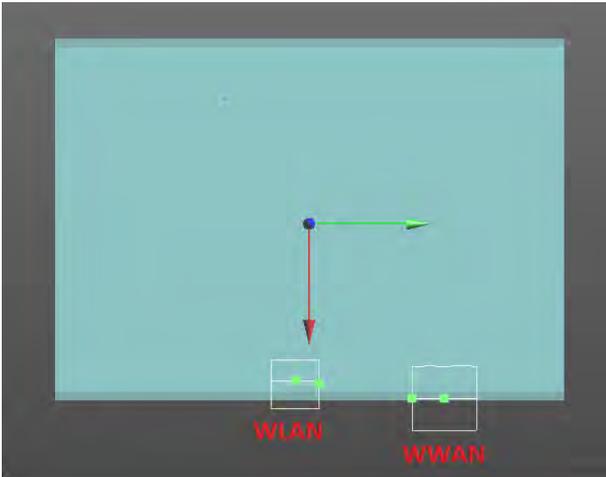
## LTE Band 14



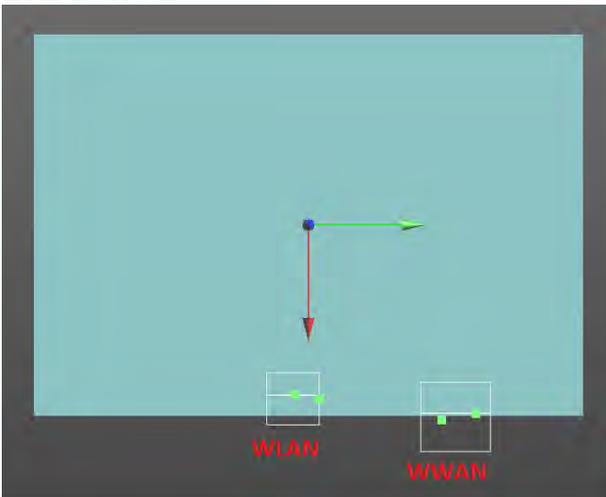
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## LTE Band 17



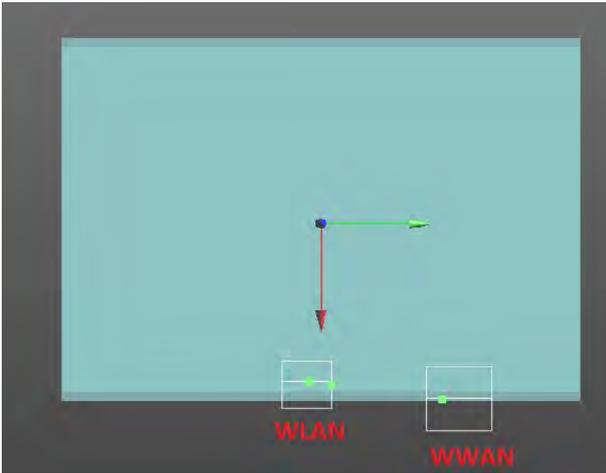
## LTE Band 25



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## LTE Band 26



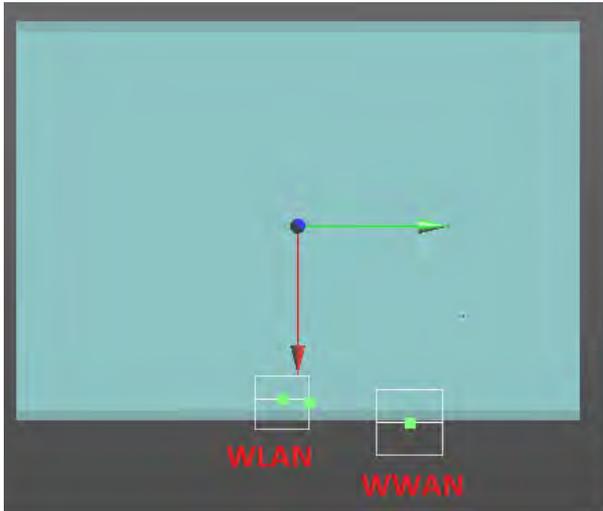
## LTE Band 30



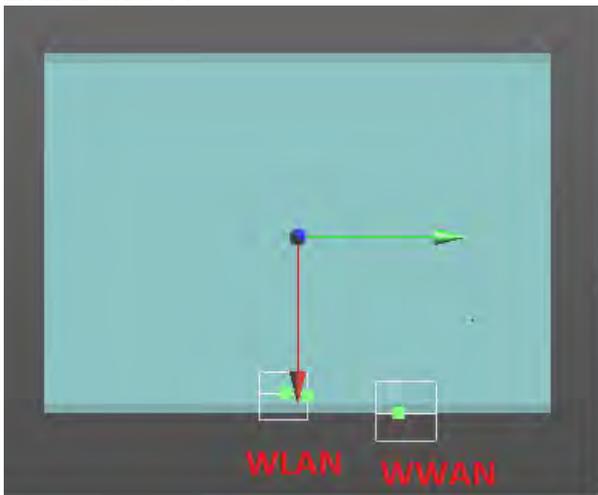
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## LTE Band 38



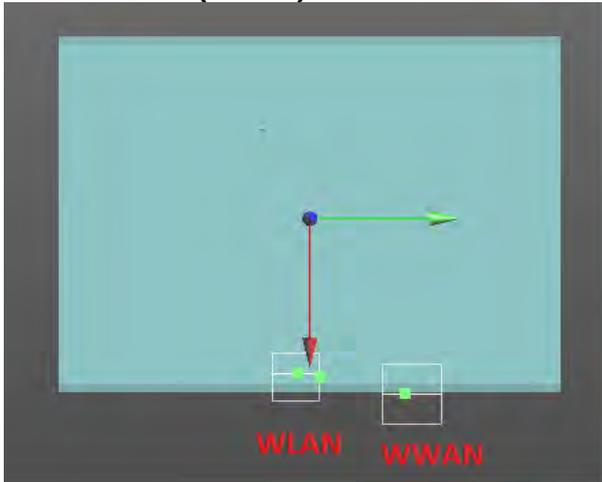
## LTE Band 41



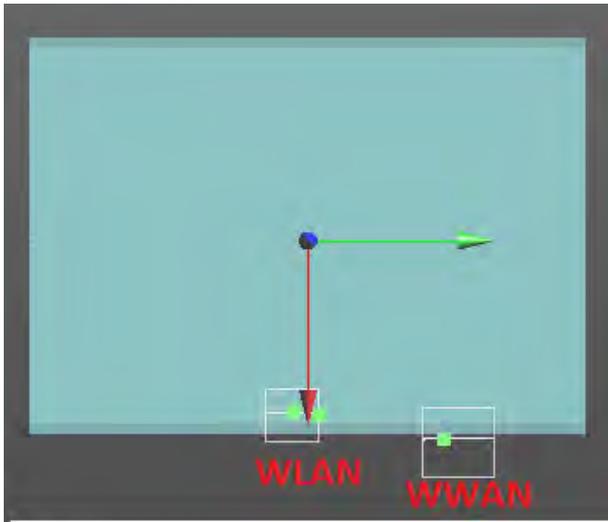
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## LTE Band 41(HPUE)



## LTE Band 66



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**TB Reduce\_WWAN+BT**

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Back Side	0.792	0	86.03	80.17	6.54	165.0	0.84	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Back Side	0.653	0	86.13	57.98	6.49	142.9	0.70	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B2	Back Side	0.82	0	87.45	80.28	6.61	165.2	0.87	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B4	Back Side	0.828	0	91.55	62.81	7.03	147.9	0.88	0.01	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B5	Back Side	0.707	0	87.56	58	6.53	142.9	0.76	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B7	Back Side	0.615	0	88.63	50.93	7.05	135.9	0.67	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B12	Back Side	0.712	0	86.65	86.38	7.02	171.3	0.76	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B13	Back Side	0.711	0	87.02	56.07	6.92	141.0	0.76	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B14	Back Side	0.707	0	87.02	66.99	6.16	151.9	0.76	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B17	Back Side	0.709	0	87.02	56.01	6.16	140.9	0.76	0.00	Not required
WLAN2.4G		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B25	Back Side	0.785	0	86.93	77.07	6.01	161.9	0.84	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B26_FCC	Back Side	0.682	0	87.04	57.49	5.84	142.4	0.73	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B30	Back Side	0.618	0	86.65	83.58	6.01	168.4	0.67	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B38	Back Side	0.603	0	88.86	49.99	6.55	135.0	0.65	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41	Back Side	0.6	0	88.62	50	6.48	135.0	0.65	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41_HPUE	Back Side	0.596	0	88.84	49.9	6.55	134.9	0.65	0.00	Not required
BT		0.05	0	85.2	-84.6	-2.77				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B66	Back Side	0.775	0	90.45	61.59	6.62	146.6	0.83	0.01	Not required
BT		0.05	0	85.2	-84.6	-2.77				

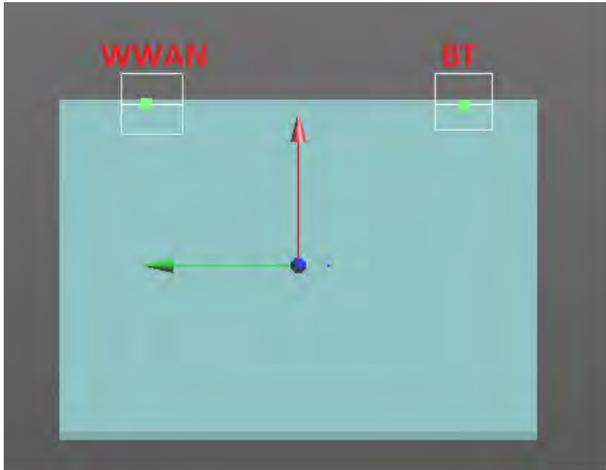
Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
BT	Back Side	0.05	0	85.2	-84.6	-2.77	80.0	1.01	0.01	Not required
WLAN2.4G		0.955	0	85.4	-4.6	-3.21				

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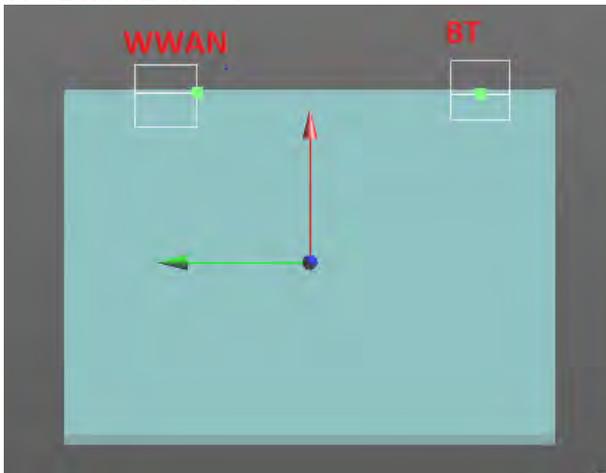
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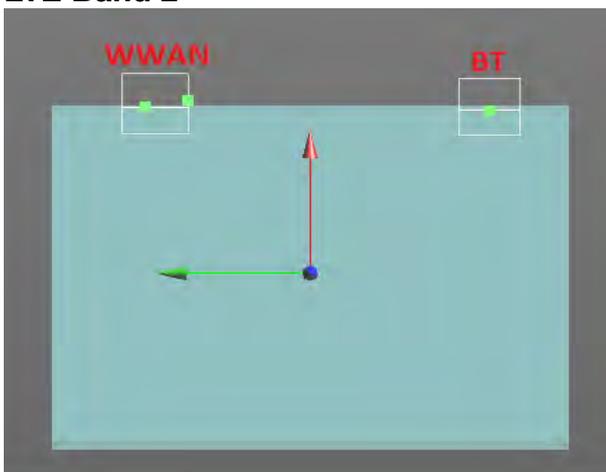
## WCDMA Band II



## WCDMA Band V



## LTE Band 2



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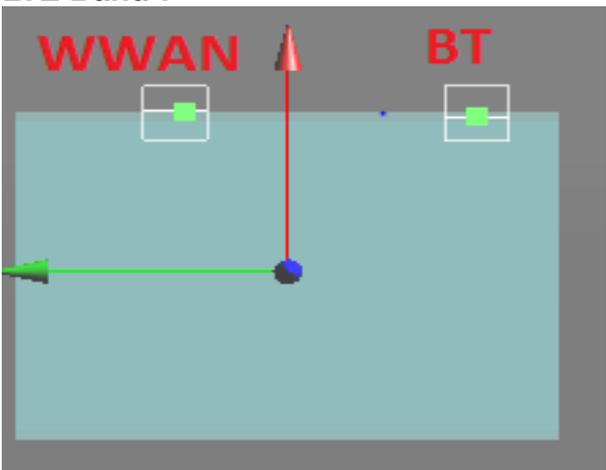
## LTE Band 4



## LTE Band 5



## LTE Band 7



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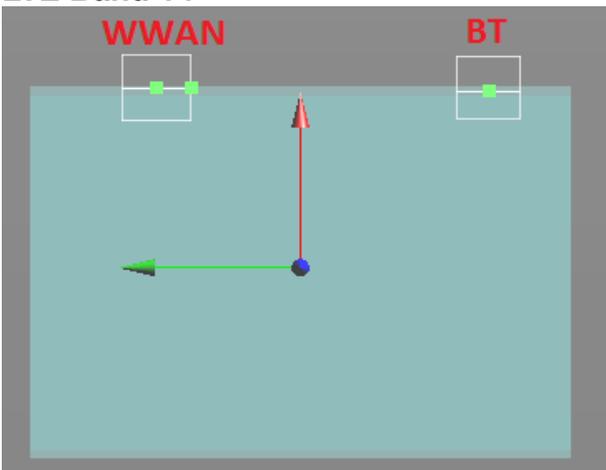
## LTE Band 12



## LTE Band 13



## LTE Band 14



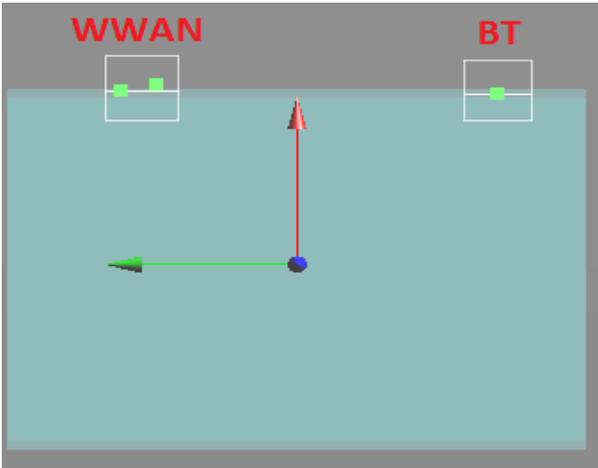
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## LTE Band 17



## LTE Band 25



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## LTE Band 26



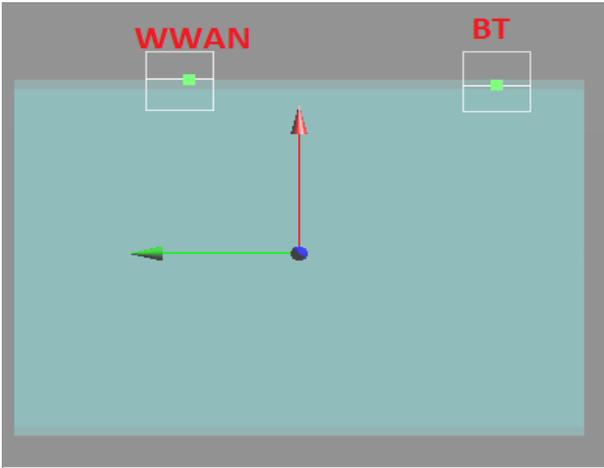
## LTE Band 30



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## LTE Band 38



## LTE Band 41



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## LTE Band 41(HPUE)



## LTE Band 66



## 2.4G WLAN to BT



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**TB Reduce\_WWAN+WLAN Main 5G**

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Top Side	0.382	0	-5.4	96	-3.98	201.8	1.26	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Top Side	0.63	0	-6.9	56.4	-4.62	162.2	1.51	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B2	Top Side	0.439	0	-5.4	95	-3.95	200.8	1.32	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B4	Top Side	0.601	0	-2.5	73.9	-4.07	179.7	1.48	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B5	Top Side	0.615	0	-5.4	53	-4.62	158.8	1.49	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B7	Top Side	0.312	0	-3.6	93.2	-4.95	199.0	1.19	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B12	Top Side	0.317	0	-5.3	53	-4.19	158.8	1.19	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B13	Top Side	0.356	0	-5.4	53	-4.17	158.8	1.23	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B14	Top Side	0.355	0	-5.4	53	-4.19	158.8	1.23	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B17	Top Side	0.317	0	-5.3	53	-4.2	158.8	1.19	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B25	Top Side	0.391	0	-5.4	95	3.96	201.0	1.27	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B26_FCC	Top Side	0.42	0	-5.4	54.5	-4.17	160.3	1.30	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B30	Top Side	0.385	0	-7	45	-4.23	150.8	1.26	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B38	Top Side	0.415	0	-3.4	93.8	-4.05	199.6	1.29	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41	Top Side	0.338	0	-3.2	92.8	-4.05	198.6	1.22	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41_HPUE	Top Side	0.55	0	-3.4	92.8	-4.04	198.6	1.43	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B66	Top Side	0.648	0	-1.1	77.7	-4.08	183.6	1.53	0.01	Not required
WLAN5G		0.877	0	-5.4	-105.8	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WLAN5G	Top Side	0.877	0	-5.4	-105.8	-4.56	105.8	2.00	0.03	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

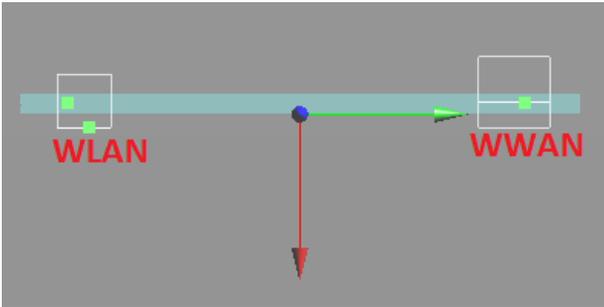
Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
BT	Top Side	0.101	0	-3.4	-108.2	-4.66	108.2	1.23	0.01	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

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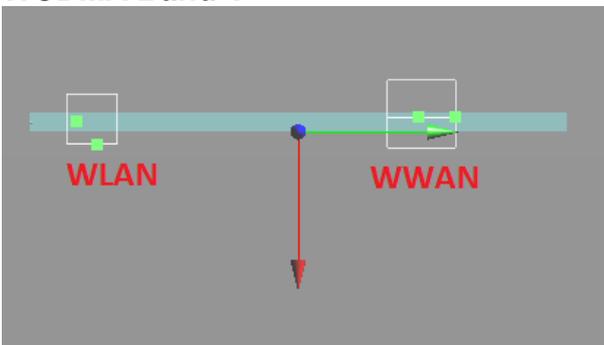
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## WCDMA Band II



## WCDMA Band V



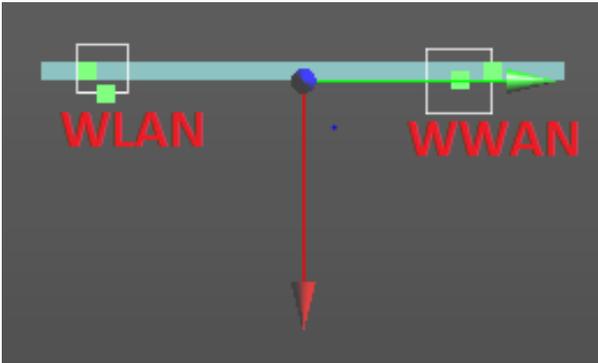
## LTE Band 2



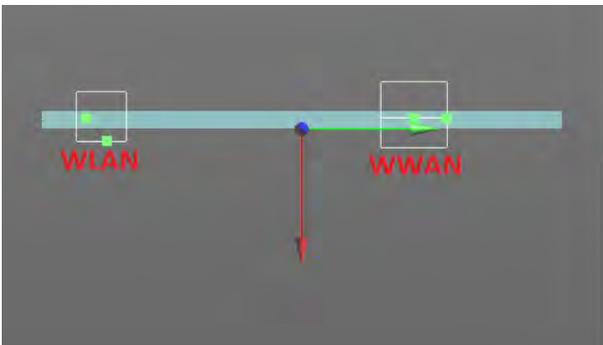
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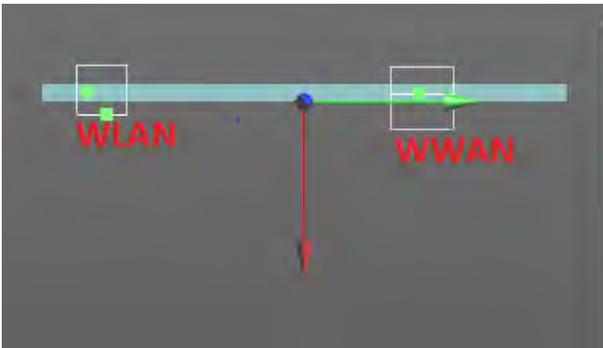
## LTE Band 4



## LTE Band 5



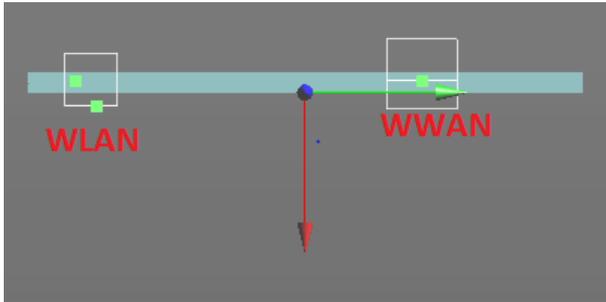
## LTE Band 7



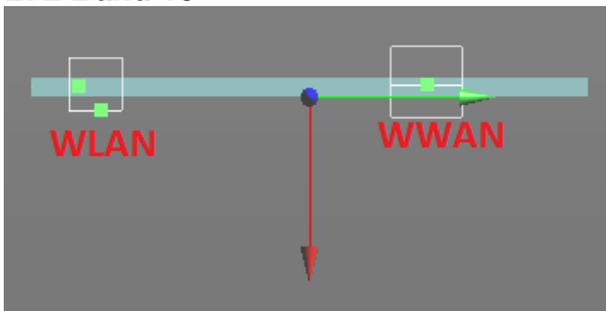
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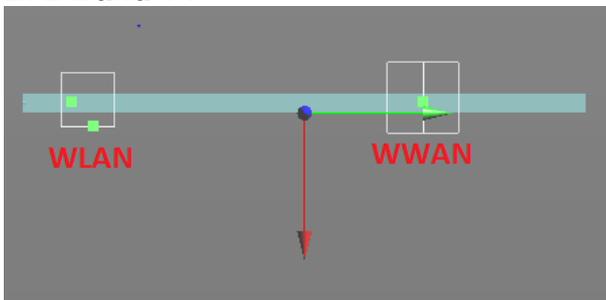
## LTE Band 12



## LTE Band 13



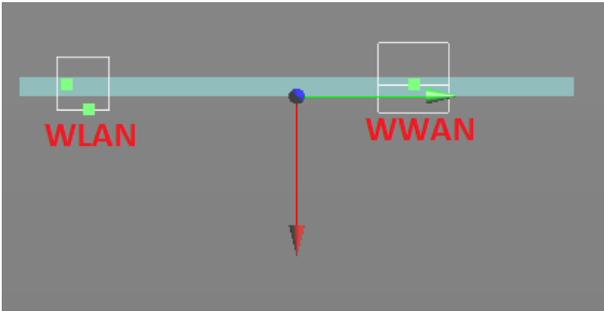
## LTE Band 14



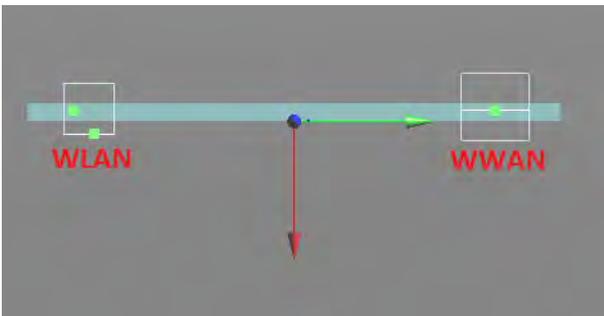
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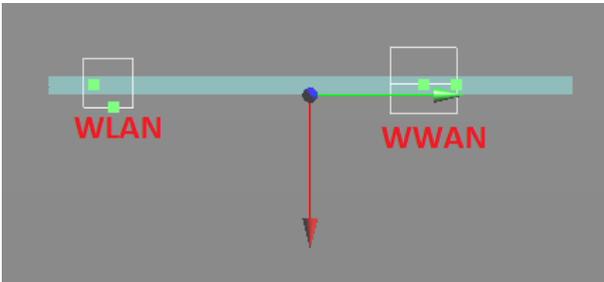
## LTE Band 17



## LTE Band 25



## LTE Band 26



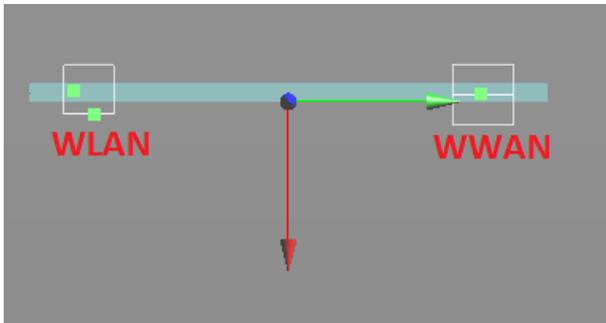
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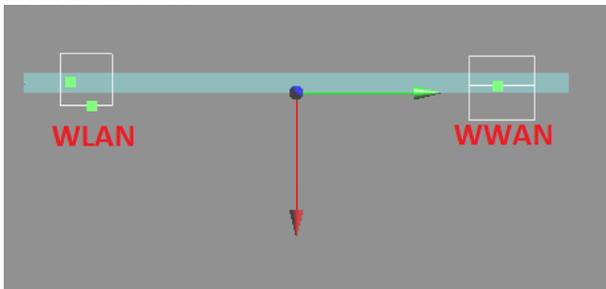
## LTE Band 30



## LTE Band 38



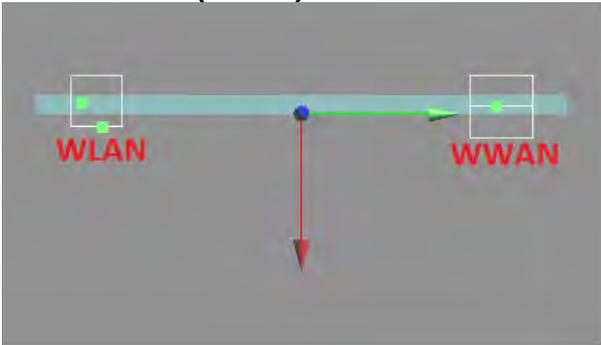
## LTE Band 41



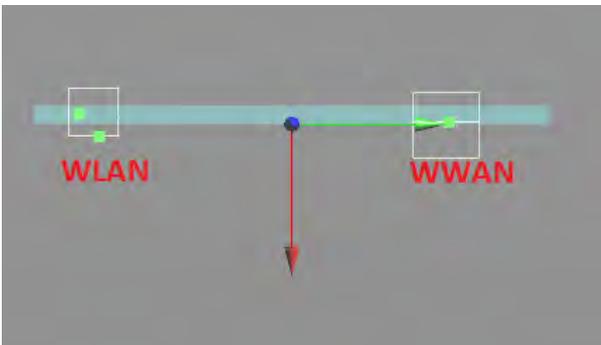
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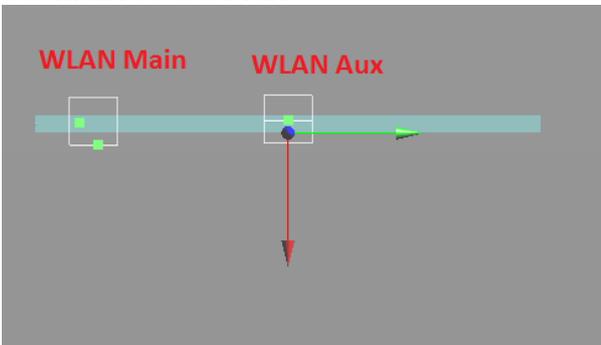
## LTE Band 41(HPUE)



## LTE Band 66



## 5G Main to 5G Aux



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**TB Reduce\_WWAN +WLAN Aux 5G**

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Top Side	0.382	0	-5.4	96	-3.98	96.0	1.51	0.02	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Top Side	0.63	0	-6.9	56.4	-4.62	56.4	1.76	0.04	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B2	Top Side	0.439	0	-5.4	95	-3.95	95.0	1.57	0.02	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B4	Top Side	0.601	0	-2.5	73.9	-4.07	74.0	1.73	0.03	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B5	Top Side	0.615	0	-5.4	53	-4.62	53.0	1.74	0.04	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B7	Top Side	0.312	0	-3.6	93.2	-4.95	93.2	1.44	0.02	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B12	Top Side	0.317	0	-5.3	53	-4.19	53.0	1.44	0.03	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B13	Top Side	0.356	0	-5.4	53	-4.17	53.0	1.48	0.03	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B14	Top Side	0.355	0	-5.4	53	-4.19	53.0	1.48	0.03	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B17	Top Side	0.317	0	-5.3	53	-4.2	53.0	1.44	0.03	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B25	Top Side	0.391	0	-5.4	95	-3.96	95.4	1.52	0.02	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B26_FCC	Top Side	0.42	0	-5.4	54.5	-4.18	54.5	1.55	0.04	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B30	Top Side	0.385	0	-5.4	54.5	-4.18	54.5	1.51	0.03	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B38	Top Side	0.415	0	-3.4	93.8	-4.05	93.8	1.54	0.02	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41	Top Side	0.338	0	-3.2	92.8	-4.05	92.8	1.47	0.02	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41_HPUE	Top Side	0.55	0	-3.4	92.8	-4.04	92.8	1.68	0.02	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B66	Top Side	0.648	0	-1.1	77.7	-4.08	77.9	1.78	0.03	Not required
WLAN5G		1.127	0	-6.2	0	-4.56				

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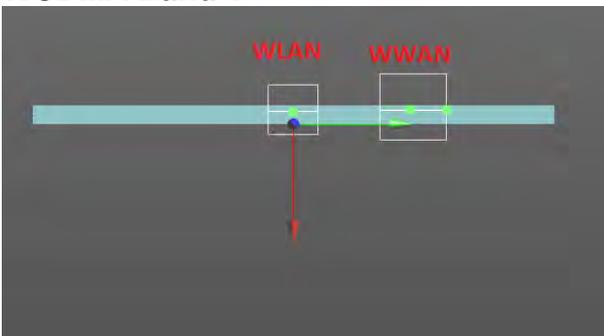
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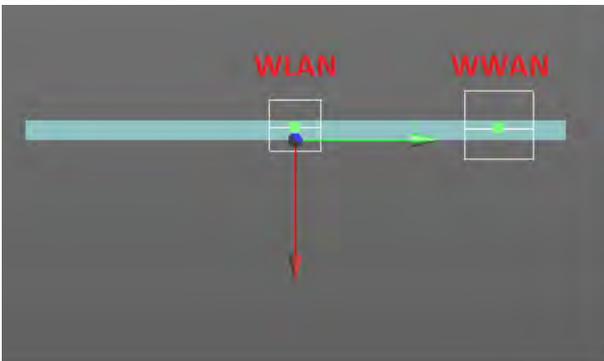
### WCDMA Band II



### WCDMA Band V



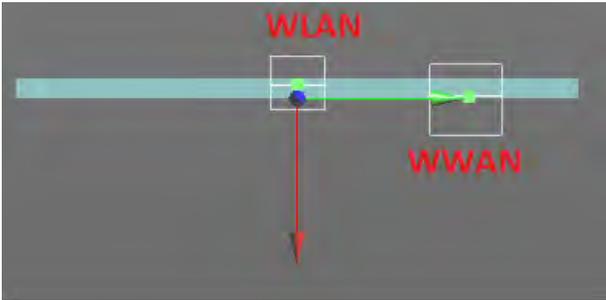
### LTE Band 2



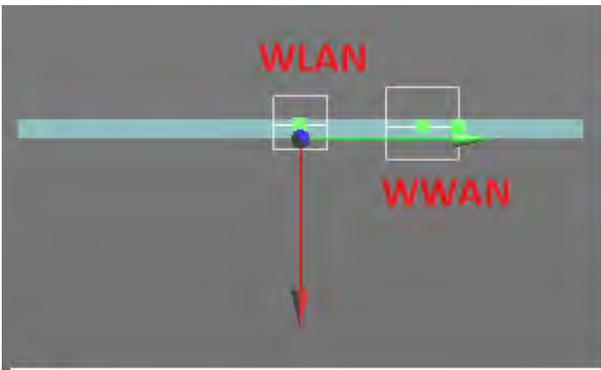
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### LTE Band 4



### LTE Band 5



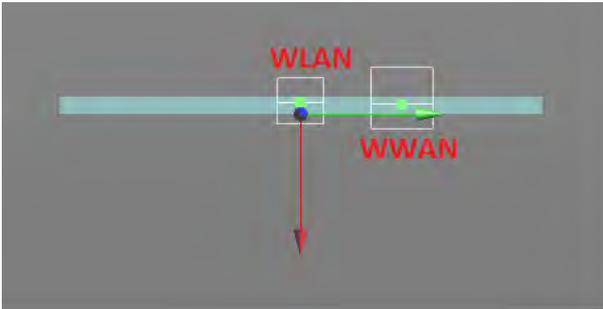
### LTE Band 7



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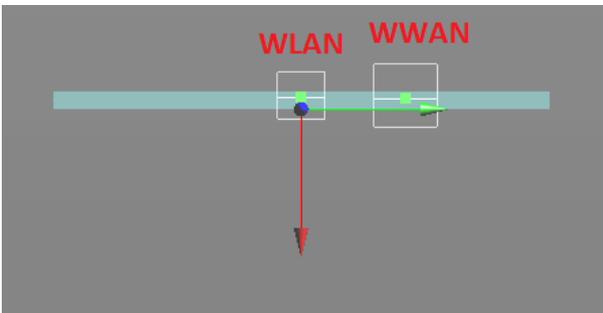
## LTE Band 12



## LTE Band 13



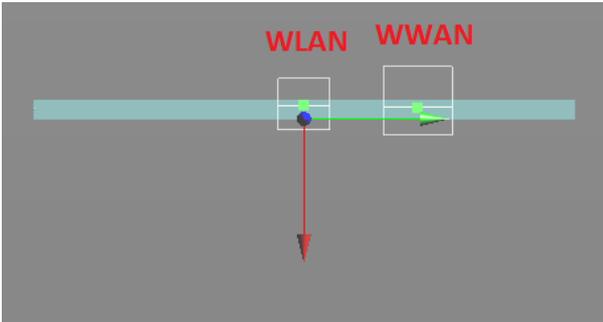
## LTE Band 14



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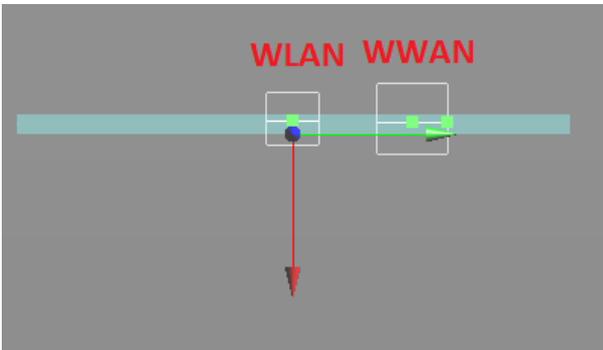
## LTE Band 17



## LTE Band 25



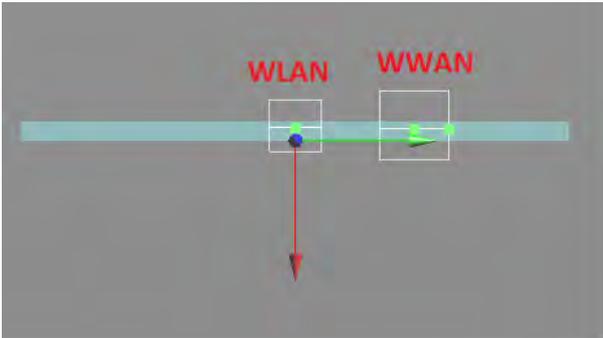
## LTE Band 26



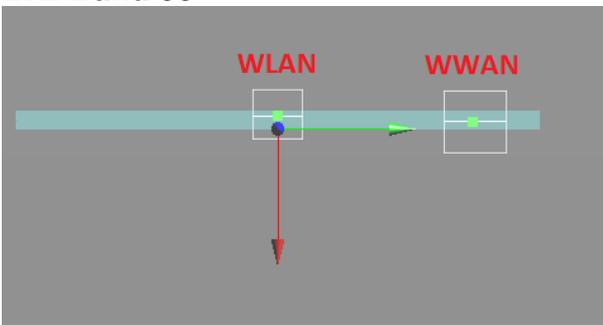
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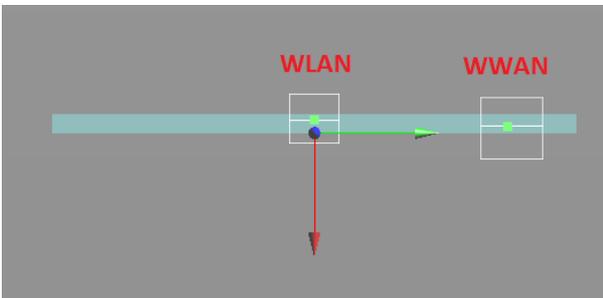
## LTE Band 30



## LTE Band 38



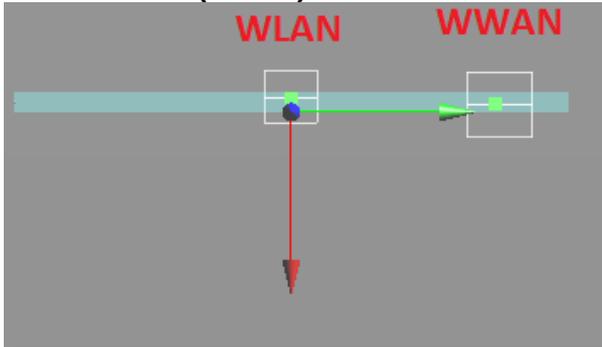
## LTE Band 41



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## LTE Band 41(HPUE)



## LTE Band 66



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**TB Reduce\_WWAN +WLAN Main 5G+BT**

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Top Side	0.382	0	-5.4	96	-3.98	202.1	1.36	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Top Side	0.63	0	-6.9	56.4	-4.62	162.6	1.61	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B2	Top Side	0.439	0	-5.4	95	-3.95	201.1	1.42	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B4	Top Side	0.601	0	-2.5	73.9	-4.07	179.9	1.58	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B5	Top Side	0.615	0	-5.4	53	-4.62	159.1	1.59	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B7	Top Side	0.312	0	-3.6	93.2	-4.95	199.2	1.29	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B12	Top Side	0.317	0	-5.3	53	-4.19	159.1	1.30	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B13	Top Side	0.356	0	-5.4	53	-4.17	159.1	1.33	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B14	Top Side	0.355	0	-5.4	53	-4.19	159.1	1.33	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B17	Top Side	0.317	0	-5.3	53	-4.2	159.1	1.30	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B25	Top Side	0.391	0	-5.4	95	3.96	201.3	1.37	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B26_FCC	Top Side	0.42	0	-5.4	54.5	-4.17	160.6	1.40	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B30	Top Side	0.385	0	-5.4	54.5	-4.18	160.6	1.36	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B38	Top Side	0.415	0	-3.4	93.8	-4.05	199.8	1.39	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41	Top Side	0.338	0	-3.2	92.8	-4.05	198.8	1.32	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B41_HPUE	Top Side	0.55	0	-3.4	92.8	-4.04	198.8	1.53	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

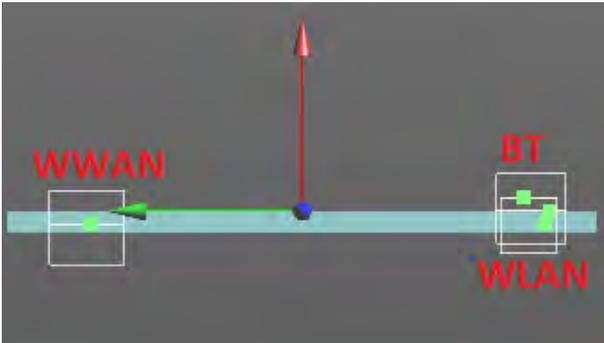
Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
LTE B66	Top Side	0.648	0	-1.1	77.7	-4.08	183.7	1.63	0.01	Not required
WLAN5G+BT		0.978	0	0.2	-106	-4.53				

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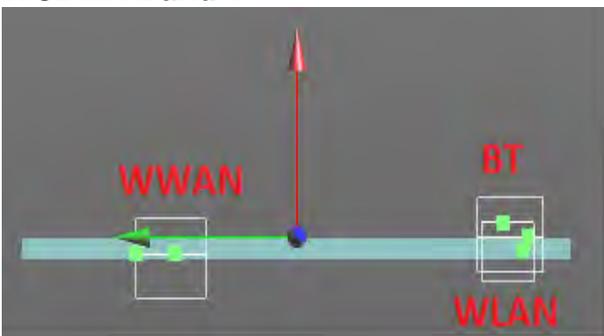
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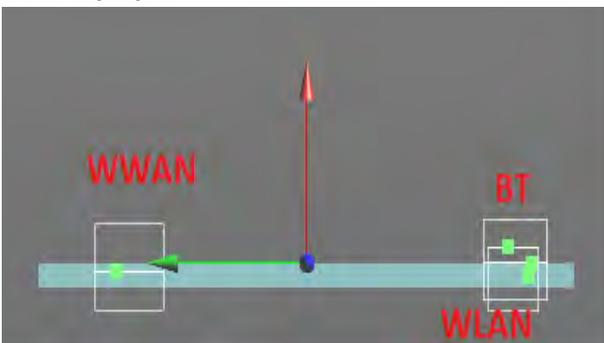
## WCDMA Band II



## WCDMA Band V



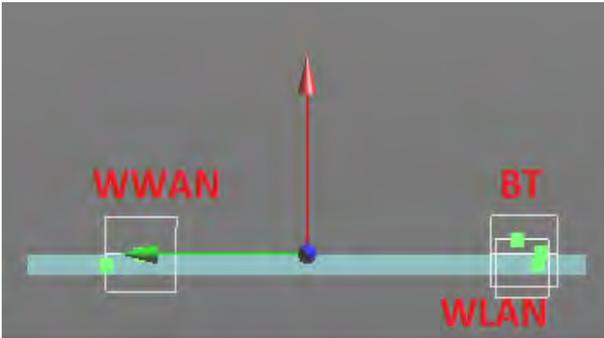
## LTE Band 2



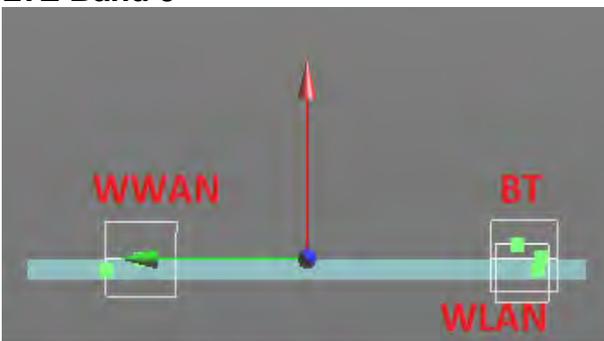
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## LTE Band 4



## LTE Band 5



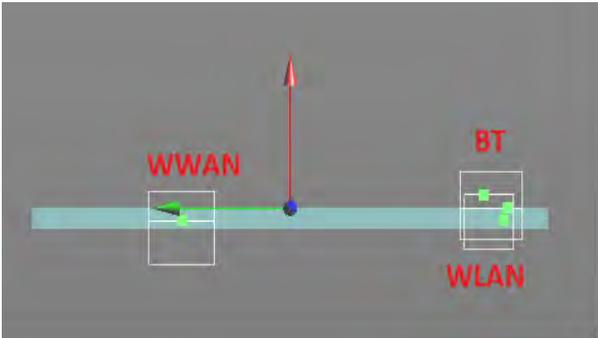
## LTE Band 7



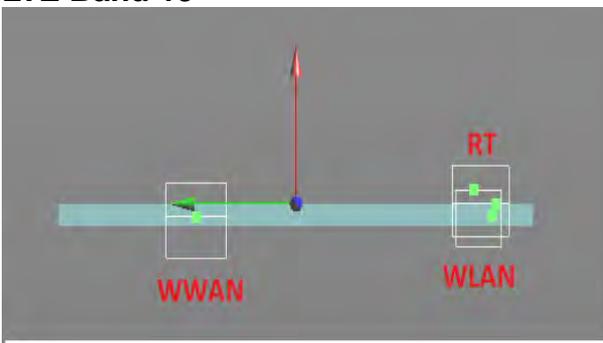
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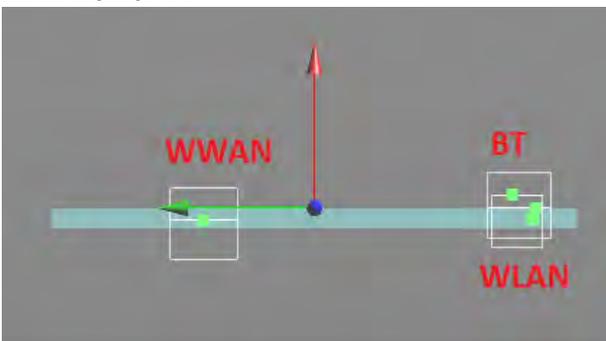
## LTE Band 12



## LTE Band 13



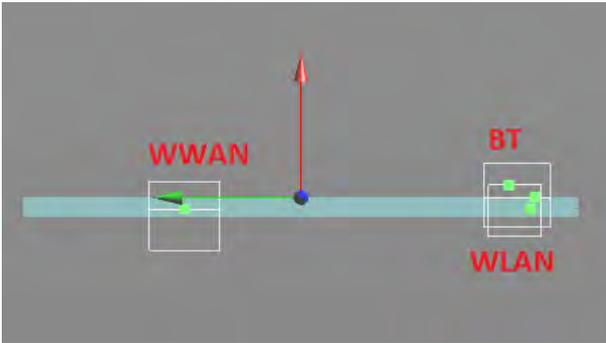
## LTE Band 14



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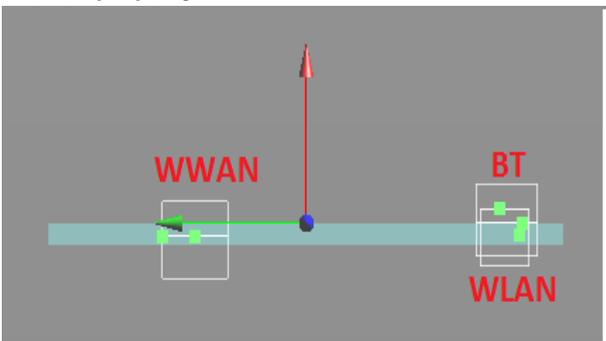
## LTE Band 17



## LTE Band 25



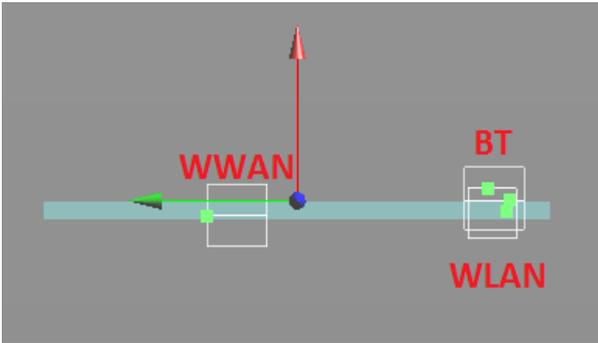
## LTE Band 26



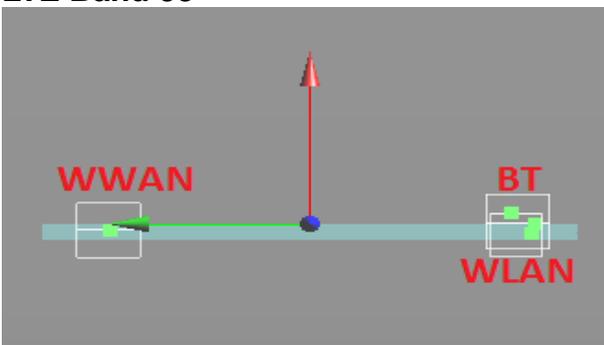
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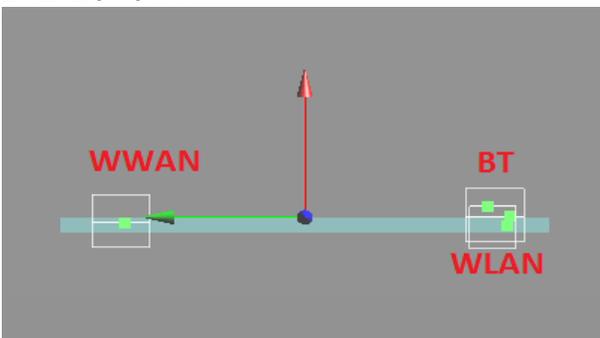
## LTE Band 30



## LTE Band 38



## LTE Band 41



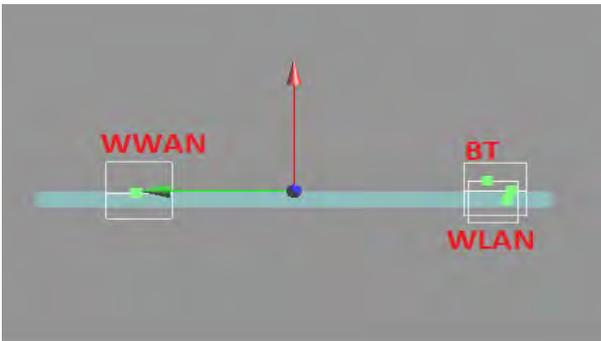
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## LTE Band 41(HPUE)



## LTE Band 66



## Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is  $< 1.6 \text{ W/kg}$  or the SPLSR is  $\leq 0.04$  for all circumstances that require SPLSR calculation.

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## 4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7628	Feb.16,2021	Feb.15,2022
SPEAG	System Validation Dipole	D750V3	1015	Aug.13,2020	Aug.12,2021
		D835V2	4d063	Aug.13,2020	Aug.12,2021
		D1750V2	1008	Aug.14,2020	Aug.13,2021
		D1900V2	5d173	Apr.22,2020	Apr.21,2021
		D2300V2	1023	Aug.13,2020	Aug.12,2021
		D2450V2	727	Apr.22,2020	Apr.21,2021
		D2600V2	1005	Jan.22,2021	Jan.21,2022
		D5GHzV2	1023	Jan.26,2021	Jan.25,2022
SPEAG	Data acquisition Electronics	DAE4	1336	Aug.13,2020	Aug.12,2021
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.17,2021	Feb.16,2022
Agilent	Dual-directional coupler	772D	MY46151242	Aug.17,2020	Aug.16,2021
		778D	MY48220468	Aug.17,2020	Aug.16,2021
Agilent	RF Signal Generator	N5181A	MY50141235	May.04,2020	May.03,2021
Agilent	Power Meter	E4417A	MY52200004	Oct.18,2020	Oct.17,2021
Agilent	Power Sensor	E9301H	MY52240003	Oct.18,2020	Oct.17,2021
			MY52200003	Oct.18,2020	Oct.17,2021

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
TECPEL	Digital thermometer	DTM-303A	TP190085	Dec.22,2020	Dec.14,2021
Anritsu	Radio Communication Test	MT8820C	6201061014	Apr.28,2020	Apr.27,2021
R&S	CME500 WIDEB RADIO COMM	CMW 500	165070	Apr.29,2020	Apr.28,2021

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## 5. Measurements

Date: 2021/4/9

**Report No. : E5/2021/20017**
**WCDMA Band II\_Body\_Back side\_CH 9538\_0mm**

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

 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 39.464$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(8.38, 8.38, 8.38); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

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

Reference Value = 4.730 V/m; Power Drift = 0.03 dB

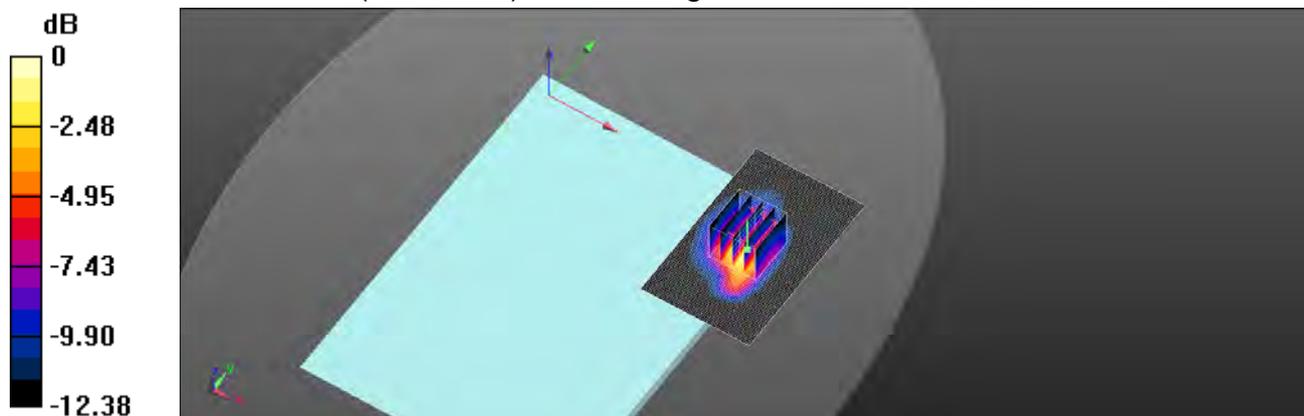
Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.400 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.70 dBW/kg

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**Report No. : E5/2021/20017**

**WCDMA Band V\_Body\_Back side\_CH 4132\_0mm**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.893 \text{ S/m}$ ;  $\epsilon_r = 40.755$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(10.15, 10.15, 10.15); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.813 W/kg

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

Reference Value = 4.819 V/m; Power Drift = 0.06 dB

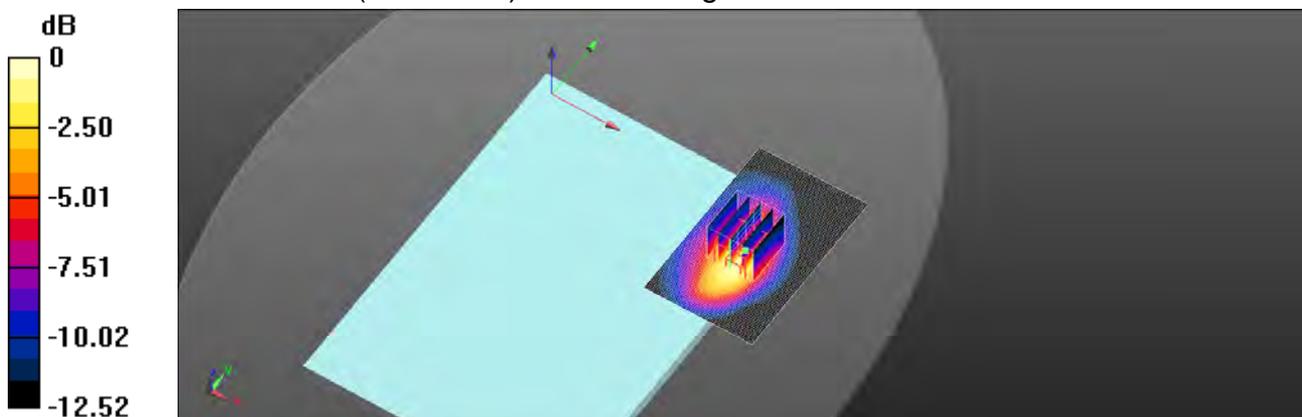
Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.349 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 0.978 W/kg



0 dB = 0.978 W/kg = -0.10 dBW/kg

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**Report No. : E5/2021/20017**

**LTE Band 2 (20MHz)\_Body\_Back side\_CH 18700\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.395$  S/m;  $\epsilon_r = 39.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.38, 8.38, 8.38); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.17 W/kg

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

Reference Value = 3.4482 V/m; Power Drift = 0.02 dB

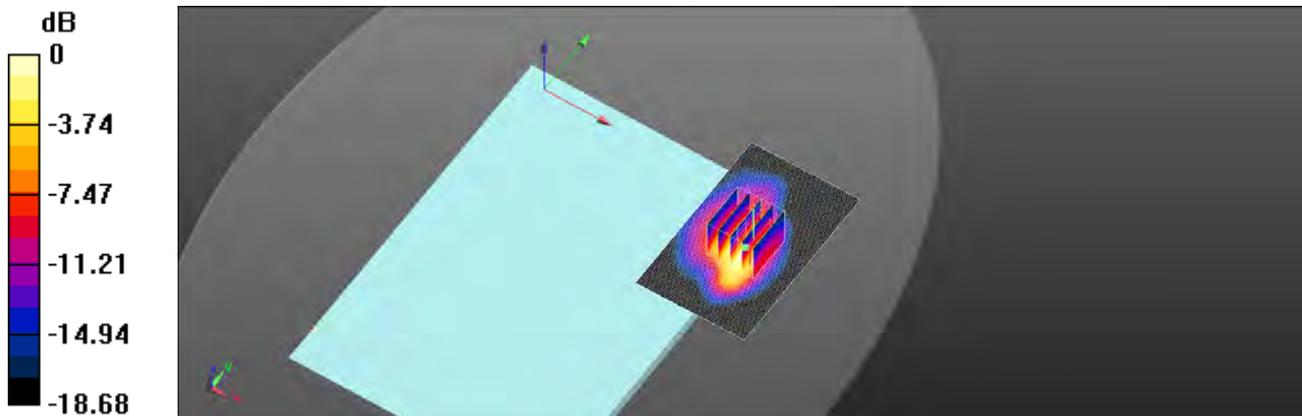
Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.371 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.9%

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



0 dB = 1.10 W/kg = 0.41 dBW/kg

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Date: 2021/4/9

**Report No. : E5/2021/20017**
**LTE Band 4 (20MHz)\_Body\_Back side\_CH 20300\_QPSK\_1-0\_0mm**

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

 Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.356$  S/m;  $\epsilon_r = 39.646$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.76, 8.76, 8.76); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.43 W/kg

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

Reference Value = 2.872 V/m; Power Drift = 0.02 dB

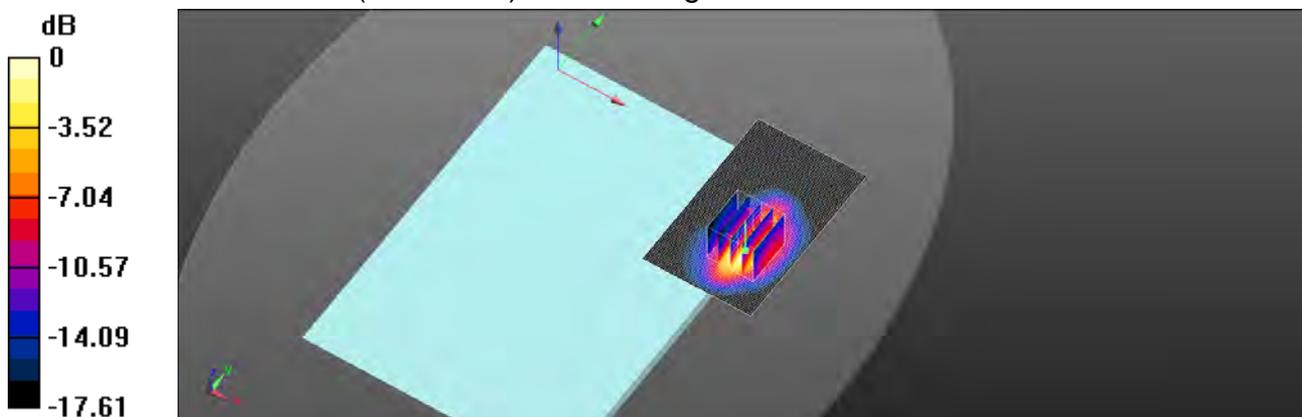
Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.382 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.9%

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg = 1.13 dBW/kg

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**Report No. : E5/2021/20017**

**LTE Band 5 (10MHz)\_Body\_Back side\_CH 20450\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 829 \text{ MHz}$ ;  $\sigma = 0.892 \text{ S/m}$ ;  $\epsilon_r = 40.767$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(10.15, 10.15, 10.15); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.670 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 0.4830 V/m; Power Drift = 0.05 dB

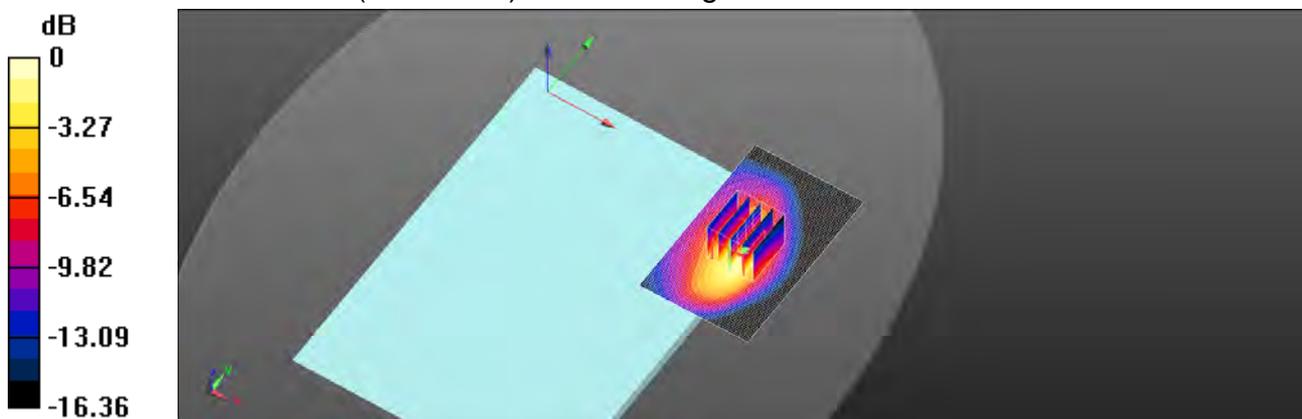
Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.364 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 0.895 W/kg



0 dB = 0.895 W/kg = -0.48 dBW/kg

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Date: 2021/4/11

**Report No. : E5/2021/20017**
**LTE Band 7 (20MHz)\_Body\_Back side\_CH 21350\_QPSK\_1-0\_0mm**

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

 Medium parameters used:  $f = 2560$  MHz;  $\sigma = 1.91$  S/m;  $\epsilon_r = 38.33$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(7.71, 7.71, 7.71); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.818 W/kg

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

Reference Value = 0.7787 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.80 W/kg

**SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.194 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.9 mm

Ratio of SAR at M2 to SAR at M1 = 54%

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

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.7787 V/m; Power Drift = 0.02 dB

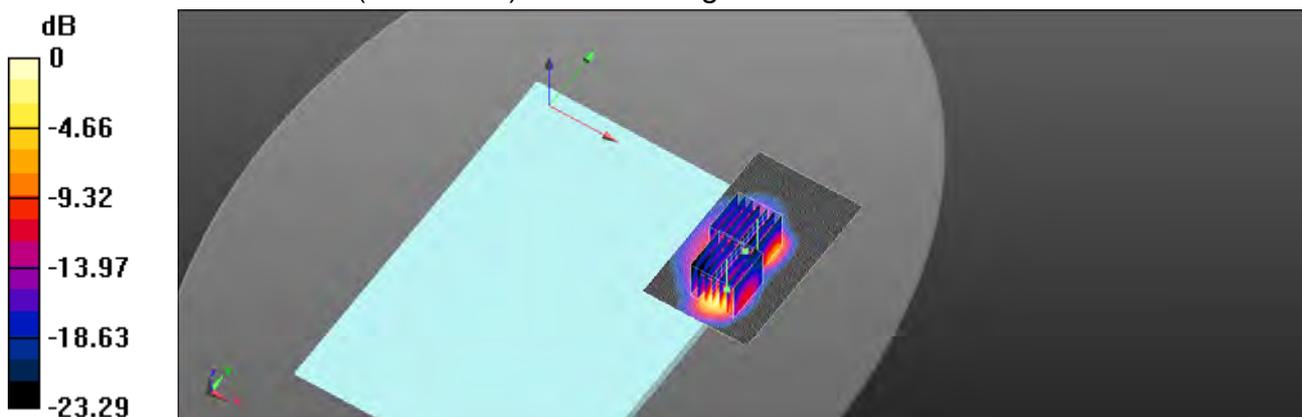
Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.192 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 54.1%

Maximum value of SAR (measured) = 0.845 W/kg



0 dB = 0.845 W/kg = -0.73 dBW/kg

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**Report No. : E5/2021/20017**
**LTE Band 12 (10MHz)\_Body\_Back side\_CH 23095\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 707.5 \text{ MHz}$ ;  $\sigma = 0.886 \text{ S/m}$ ;  $\epsilon_r = 41.943$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(10.48, 10.48, 10.48); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 1.13 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 0.8120 V/m; Power Drift = 0.02 dB

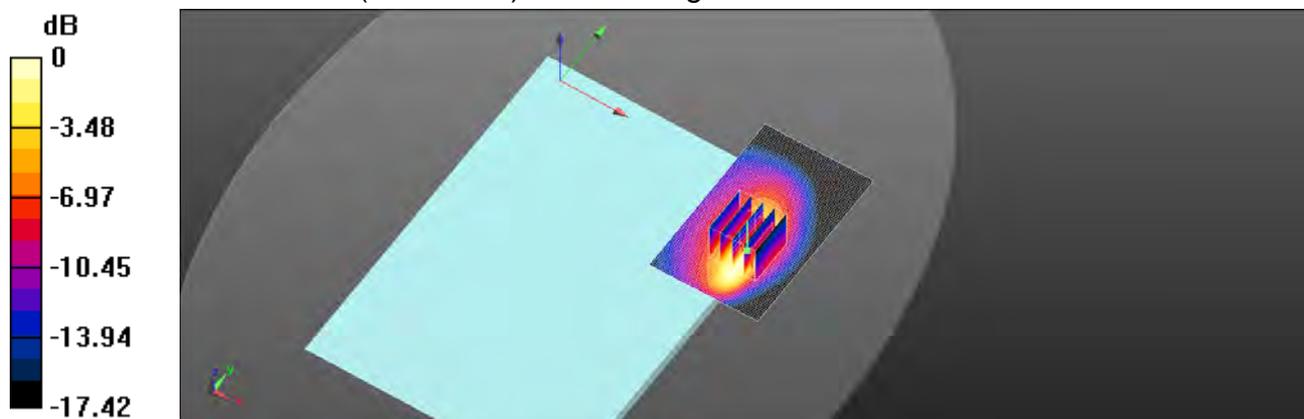
Peak SAR (extrapolated) = 1.84 W/kg

**SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.347 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.99 dBW/kg

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**Report No. : E5/2021/20017**
**LTE Band 13 (10MHz)\_Body\_Back side\_CH 23230\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.89 \text{ S/m}$ ;  $\epsilon_r = 41.011$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(10.48, 10.48, 10.48); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 1.08 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 0.4140 V/m; Power Drift = 0.01 dB

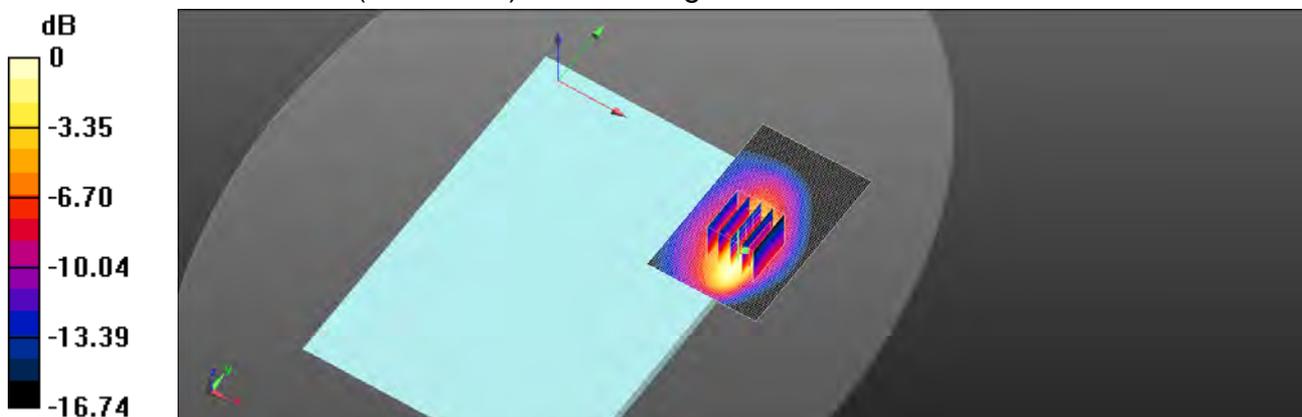
Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.347 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.4 mm

Ratio of SAR at M2 to SAR at M1 = 58%

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg = 0.70 dBW/kg

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**Report No. : E5/2021/20017**
**LTE Band 14 (10MHz)\_Body\_Back side\_CH 23330\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 793 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 793 \text{ MHz}$ ;  $\sigma = 0.891 \text{ S/m}$ ;  $\epsilon_r = 40.955$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(10.48, 10.48, 10.48); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 1.178 V/m; Power Drift = 0.05 dB

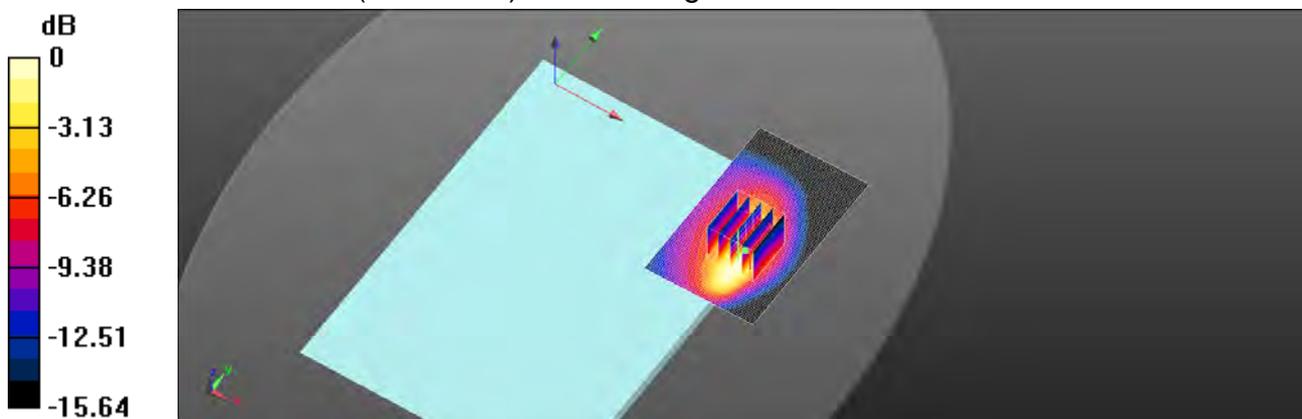
Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.689 W/kg; SAR(10 g) = 0.367 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

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



0 dB = 1.10 W/kg = 0.40 dBW/kg

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Date: 2021/4/7

**Report No. : E5/2021/20017**
**LTE Band 17 (10MHz)\_Body\_Back side\_CH 23790\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.885 \text{ S/m}$ ;  $\epsilon_r = 41.652$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(10.48, 10.48, 10.48); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

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

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 1.483 V/m; Power Drift = 0.02 dB

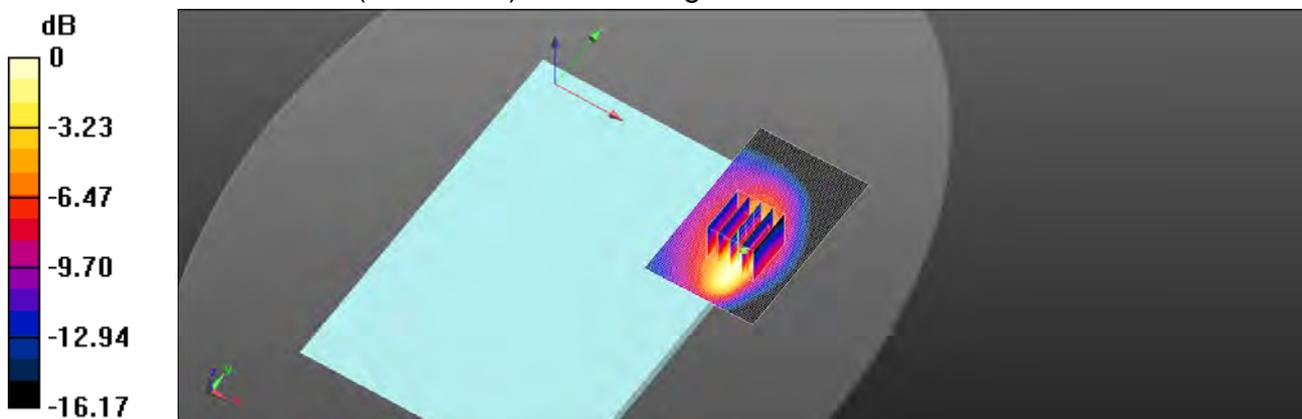
Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.682 W/kg; SAR(10 g) = 0.350 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

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Date: 2021/4/9

**Report No. : E5/2021/20017**
**LTE Band 25 (20MHz)\_Body\_Back side\_CH 26140\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.395$  S/m;  $\epsilon_r = 39.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.38, 8.38, 8.38); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

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

Reference Value = 1.484 V/m; Power Drift = 0.03 dB

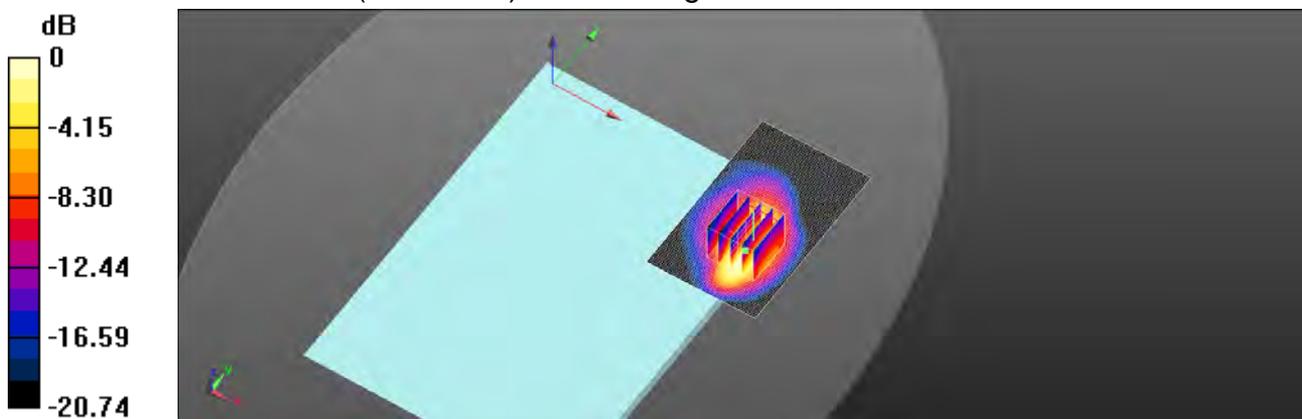
Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.394 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

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



0 dB = 1.16 W/kg = 0.64 dBW/kg

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**Report No. : E5/2021/20015**

**LTE Band 26 (15MHz)\_Body\_Back side\_CH 26765\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 821.5 \text{ MHz}$ ;  $\sigma = 0.882 \text{ S/m}$ ;  $\epsilon_r = 40.911$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(10.15, 10.15, 10.15); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

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

Reference Value = 1.4848 V/m; Power Drift = 0.02 dB

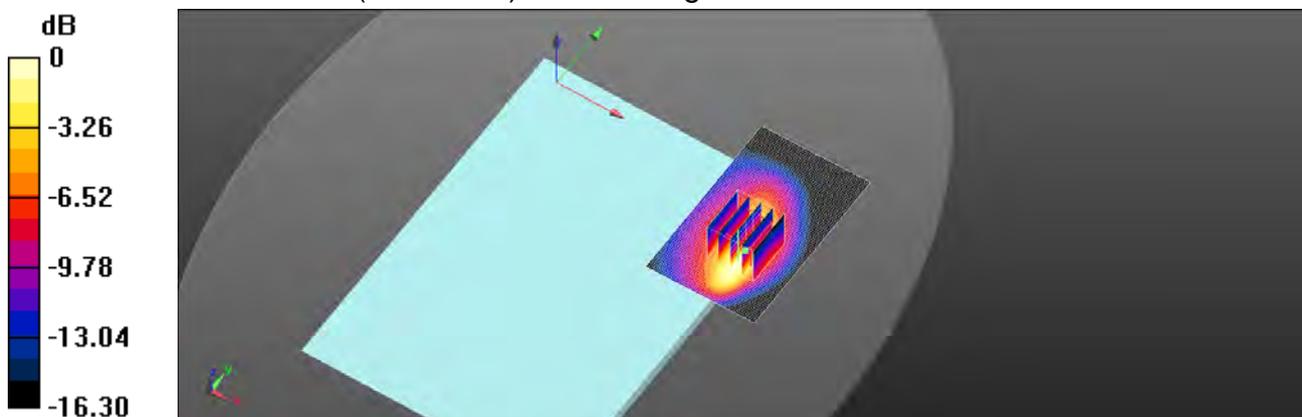
Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.345 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 50.3%

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



0 dB = 1.11 W/kg = 0.44 dBW/kg

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Date: 2021/4/11

**Report No. : E5/2021/20017**
**LTE Band 30 (15MHz)\_Body\_Back side\_CH 27710\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.662$  S/m;  $\epsilon_r = 38.916$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.15, 8.15, 8.15); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.962 W/kg

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

Reference Value = 2.584 V/m; Power Drift = 0.04 dB

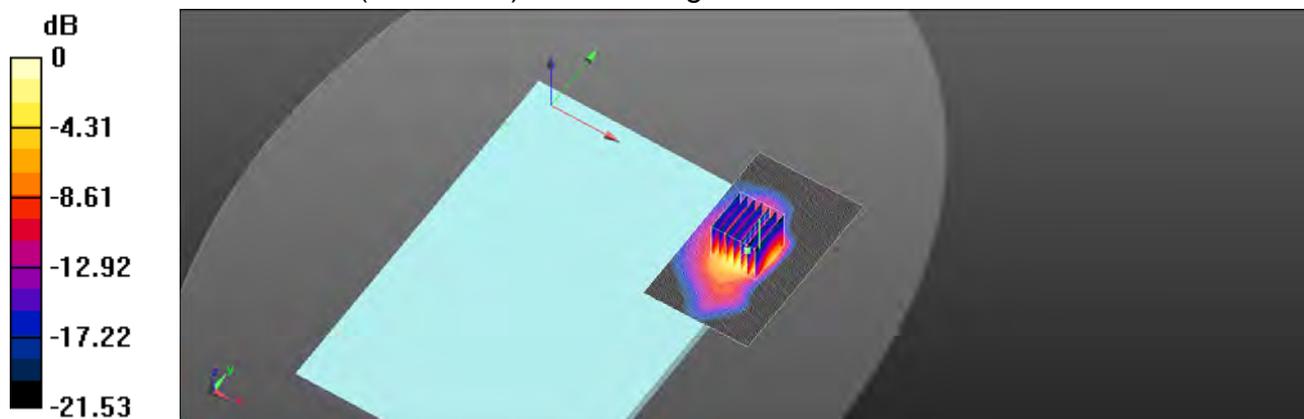
Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.276 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2021/4/11

**Report No. : E5/2021/20017**
**LTE Band 38 (20MHz)\_Body\_Back side\_CH 37850\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2580 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 2580$  MHz;  $\sigma = 1.93$  S/m;  $\epsilon_r = 38.289$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(7.71, 7.71, 7.71); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.936 W/kg

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

Reference Value = 2.855 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.81 W/kg

**SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.222 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 1.14 W/kg

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.855 V/m; Power Drift = 0.04 dB

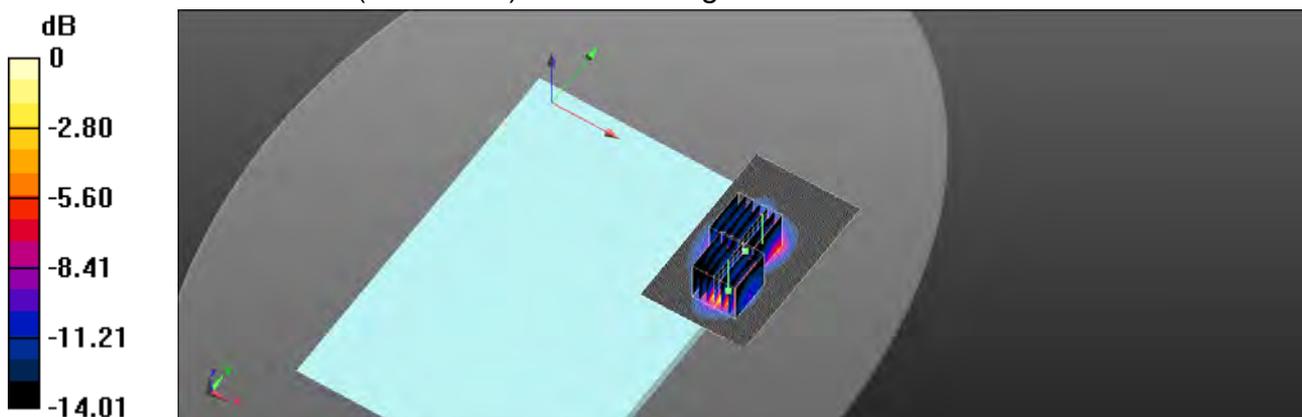
Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.215 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.824 W/kg



0 dB = 0.824 W/kg = -0.84 dBW/kg

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Date: 2021/4/11

**Report No. : E5/2021/20017**
**LTE Band 41 (20MHz)\_Body\_Back side\_CH 41490\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2680 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 2680$  MHz;  $\sigma = 2.052$  S/m;  $\epsilon_r = 39.012$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(7.71, 7.71, 7.71); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.931 W/kg

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

Reference Value = 3.232 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.86 W/kg

**SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.226 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 1.05 W/kg

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.232 V/m; Power Drift = 0.03 dB

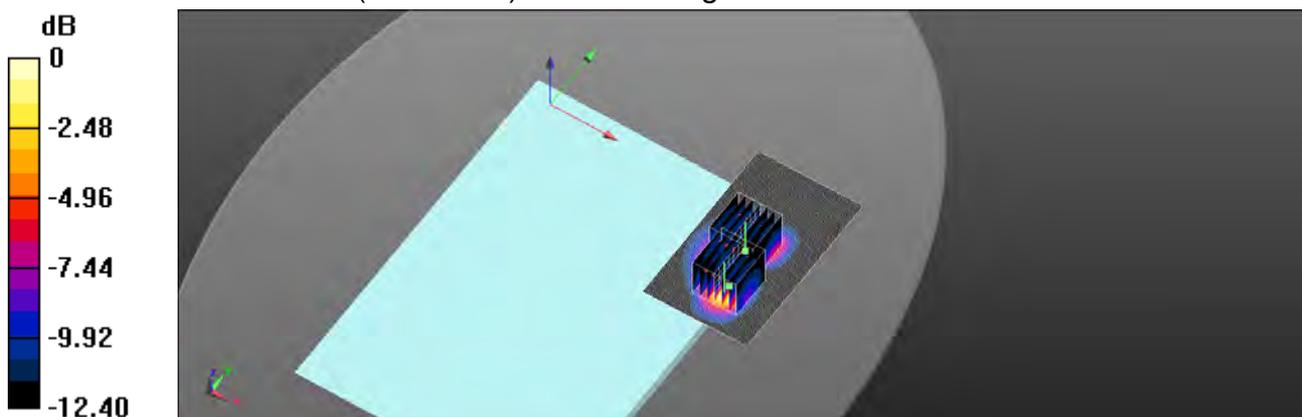
Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.217 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 0.723 W/kg



0 dB = 0.723 W/kg = -1.41 dBW/kg

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Date: 2021/4/11

**Report No. : E5/2021/20017**
**LTE Band 41 (20MHz)\_Body\_Back side\_CH 41055\_QPSK\_1-0\_0mm\_HPUE**

Communication System: LTE Band 41; Frequency: 2636.5 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 2636.5$  MHz;  $\sigma = 1.991$  S/m;  $\epsilon_r = 38.234$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(7.71, 7.71, 7.71); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.928 W/kg

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

Reference Value = 3.309 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.74 W/kg

**SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.221 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 1.08 W/kg

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.309 V/m; Power Drift = 0.02 dB

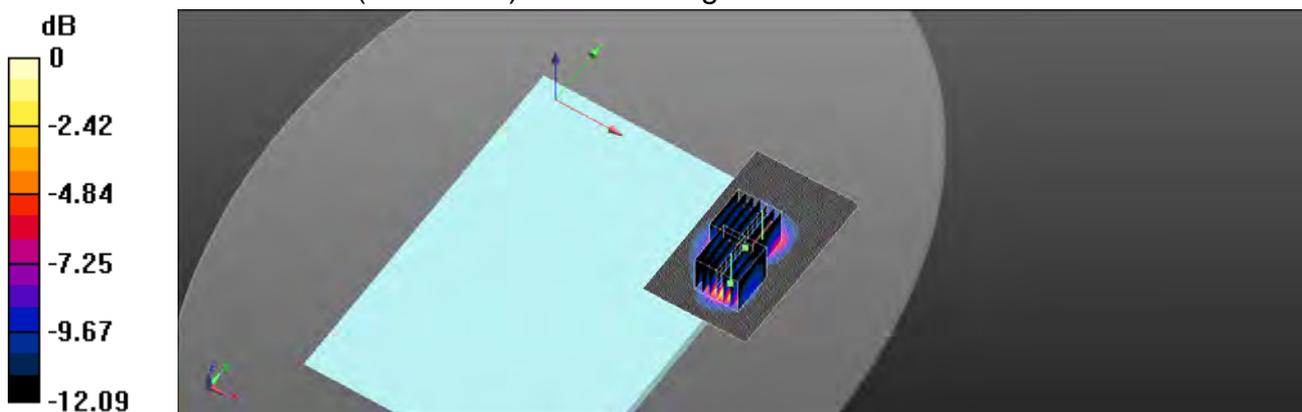
Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.207 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 0.699 W/kg



0 dB = 0.699 W/kg = -1.56 dBW/kg

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Date: 2021/4/9

**Report No. : E5/2021/20017**
**LTE Band 66 (20MHz)\_Body\_Back side\_CH 132572\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 1770 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.372$  S/m;  $\epsilon_r = 40.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.76, 8.76, 8.76); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

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

Reference Value = 2.777 V/m; Power Drift = 0.05 dB

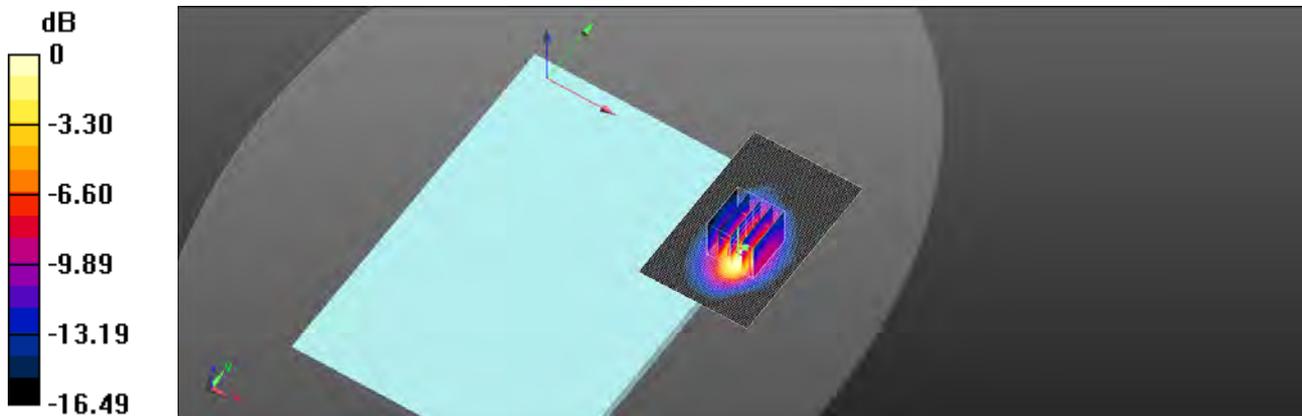
Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 0.771 W/kg; SAR(10 g) = 0.371 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.78 dBW/kg

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**Report No. : E5/2021/20017**
**WLAN 802.11b\_Body\_Top side\_CH 6\_0mm\_Main**

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty Cycle: 1:0.995  
 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.768$  S/m;  $\epsilon_r = 38.819$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section  
 Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.01, 8.01, 8.01); Calibrated: 2021/2/16  
 Sensor-Surface: 2mm (Mechanical Surface Detection)  
 Electronics: DAE4 Sn1336; Calibrated: 2020/8/13  
 Phantom: ELI  
 DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.433 W/kg

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

Reference Value = 2.333 V/m; Power Drift = -0.02 dB

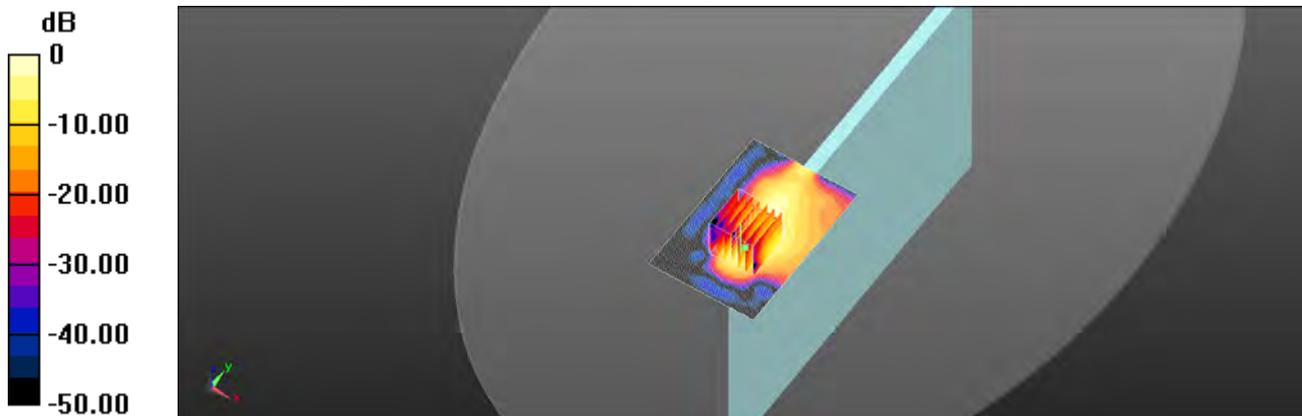
Peak SAR (extrapolated) = 0.710 W/kg

**SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.098 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 50.1%

Maximum value of SAR (measured) = 0.397 W/kg



0 dB = 0.397 W/kg = -4.01 dBW/kg

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**Report No. : E5/2021/20017**

**Bluetooth(GFSK)\_Body\_Top side\_CH 78\_0mm\_Main**

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:0.771

Medium parameters used:  $f = 2480$  MHz;  $\sigma = 1.814$  S/m;  $\epsilon_r = 38.708$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.01, 8.01, 8.01); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.558 W/kg

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

Reference Value = 3.057 V/m; Power Drift = -0.06 dB

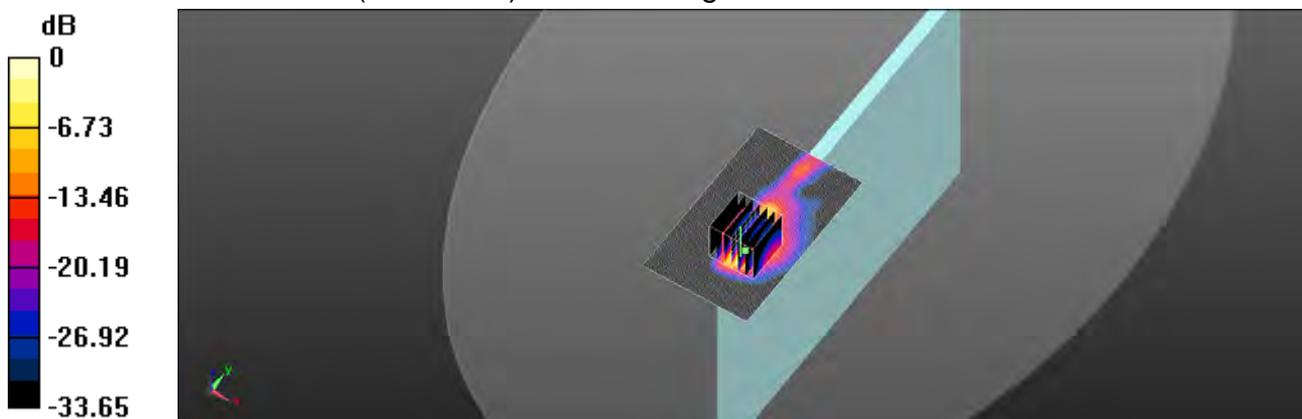
Peak SAR (extrapolated) = 0.090 W/kg

**SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.025 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 0.052 W/kg



0 dB = 0.052 W/kg = -2.58 dBW/kg

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**Report No. : E5/2021/20015**
**WLAN 802.11n(40M) 5.2G\_Body\_Top side\_CH 46\_0mm\_Main**

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:0.990

 Medium parameters used:  $f = 5230$  MHz;  $\sigma = 4.657$  S/m;  $\epsilon_r = 35.279$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(5.51, 5.51, 5.51); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.805 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.4640 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.23 W/kg

**SAR(1 g) = 0.600 W/kg; SAR(10 g) = 0.107 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 1.67 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.4640 V/m; Power Drift = 0.04 dB

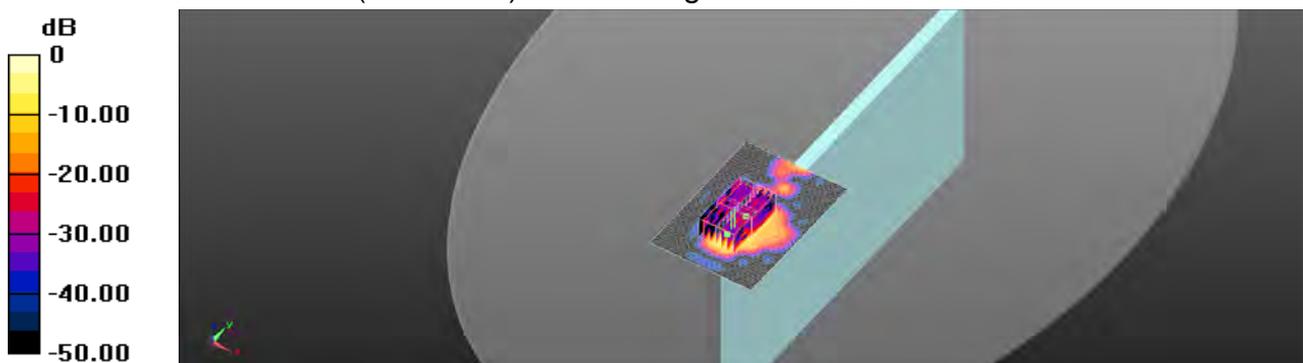
Peak SAR (extrapolated) = 3.69 W/kg

**SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.091 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kg = 1.87 dBW/kg

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**Report No. : E5/2021/20017**
**WLAN 802.11a 5.3G\_Body\_Top side\_CH 56\_0mm\_Main**

Communication System: WLAN 5G; Frequency: 5280 MHz; Duty Cycle: 1:0.979

 Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.705$  S/m;  $\epsilon_r = 35.227$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(5.51, 5.51, 5.51); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.092 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 6.60 W/kg

**SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.157 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.9 mm

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 2.68 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.092 V/m; Power Drift = -0.03 dB

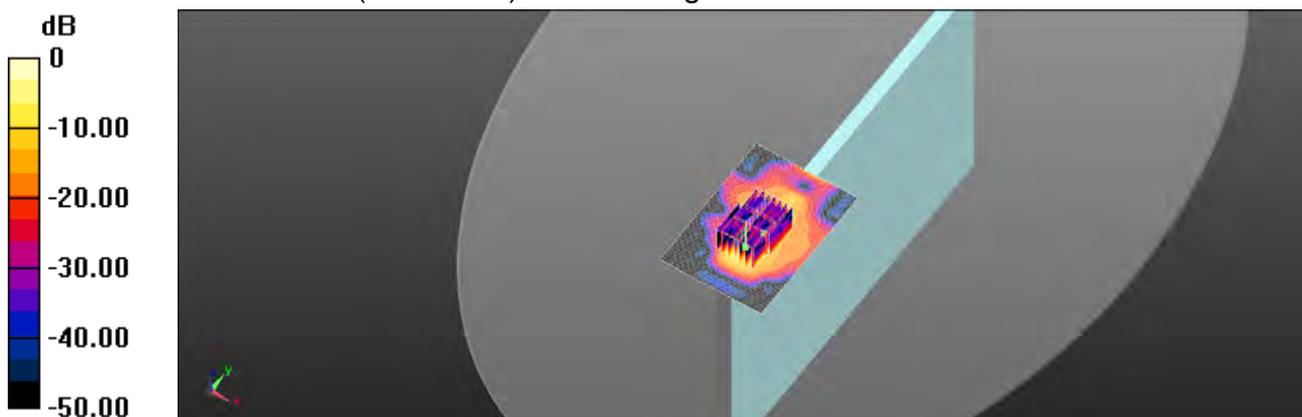
Peak SAR (extrapolated) = 6.98 W/kg

**SAR(1 g) = 0.940 W/kg; SAR(10 g) = 0.170 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.3 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

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



0 dB = 2.77 W/kg = 4.43 dBW/kg

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**Report No. : E5/2021/20017**
**WLAN 802.11n(40M) 5.3G\_Body\_Top side\_CH 54\_0mm\_Main**

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:0.990

 Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.695$  S/m;  $\epsilon_r = 35.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(5.51, 5.51, 5.51); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.855 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.248 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 4.79 W/kg

**SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.116 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 2.07 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.248 V/m; Power Drift = 0.03 dB

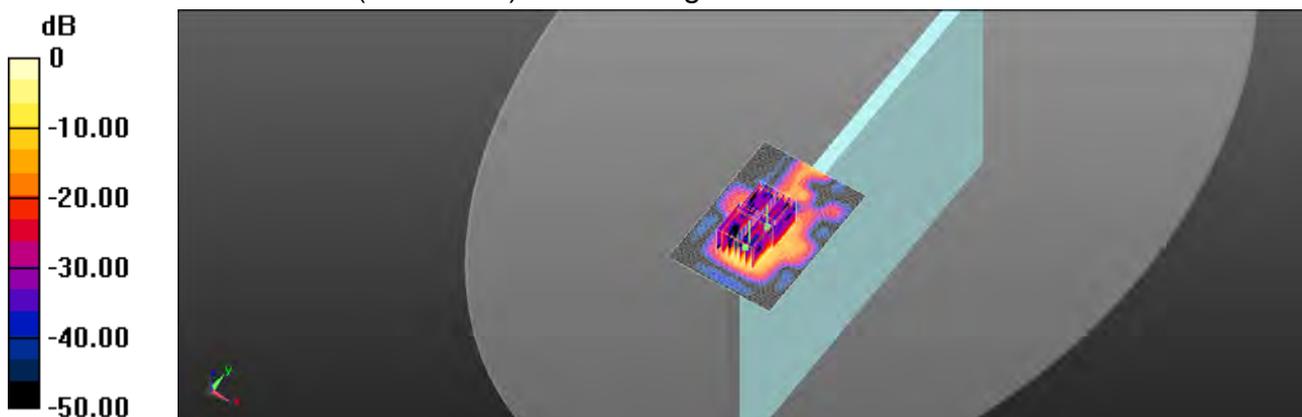
Peak SAR (extrapolated) = 6.14 W/kg

**SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.146 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 2.22 W/kg



0 dB = 2.22 W/kg = 3.45 dBW/kg

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**Report No. : E5/2021/20017**

**WLAN 802.11ac(80M) 5.6G\_Body\_Top side\_CH 138\_0mm\_Main**

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:0.987

Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.114$  S/m;  $\epsilon_r = 35.032$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(4.95, 4.95, 4.95); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.667 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.5484 V/m; Power Drift = 0.05 dB

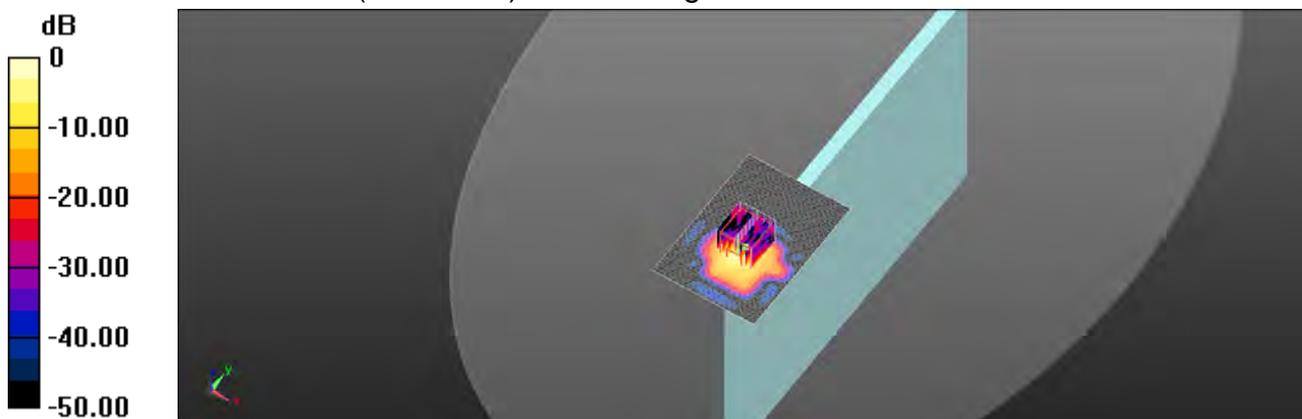
Peak SAR (extrapolated) = 3.73 W/kg

**SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.086 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

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Date: 2021/4/6

**Report No. : E5/2021/20017**
**WLAN 802.11ac(80M) 5.8G\_Body\_Top side\_CH 155\_0mm\_Main**

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:0.987

 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.214$  S/m;  $\epsilon_r = 35.064$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(4.95, 4.95, 4.95); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.787 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.8120 V/m; Power Drift = 0.06 dB

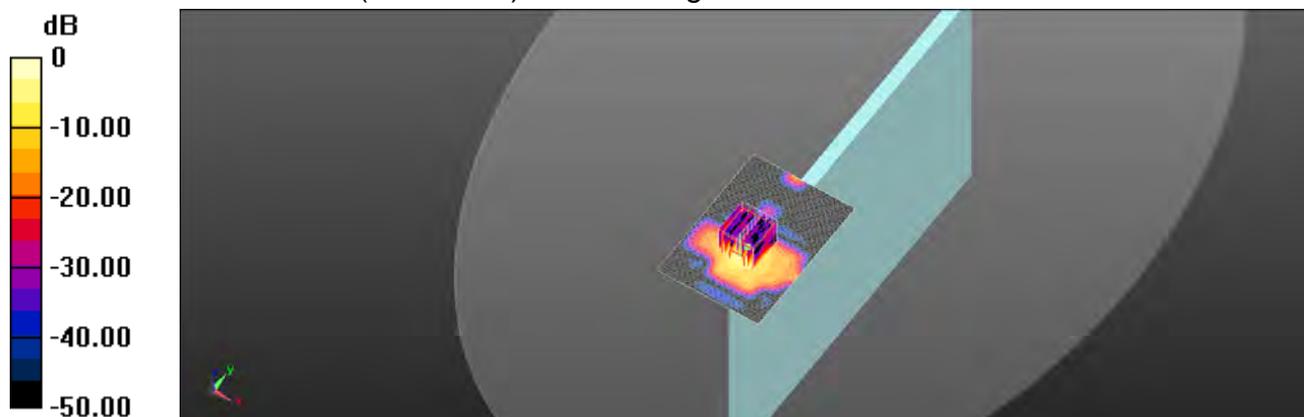
Peak SAR (extrapolated) = 6.15 W/kg

**SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.106 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 1.72 W/kg



0 dB = 1.72 W/kg = 2.35 dBW/kg

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**Report No. : E5/2021/20017**
**WLAN 802.11b\_Body\_Back side\_CH 2\_0mm\_Aux**

Communication System: WLAN 2.45G; Frequency: 2417 MHz; Duty Cycle: 1:0.995  
 Medium parameters used:  $f = 2417$  MHz;  $\sigma = 1.749$  S/m;  $\epsilon_r = 38.878$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section  
 Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.01, 8.01, 8.01); Calibrated: 2021/2/16  
 Sensor-Surface: 2mm (Mechanical Surface Detection)  
 Electronics: DAE4 Sn1336; Calibrated: 2020/8/13  
 Phantom: ELI  
 DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.53 W/kg

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

Reference Value = 0.7874 V/m; Power Drift = 0.02 dB

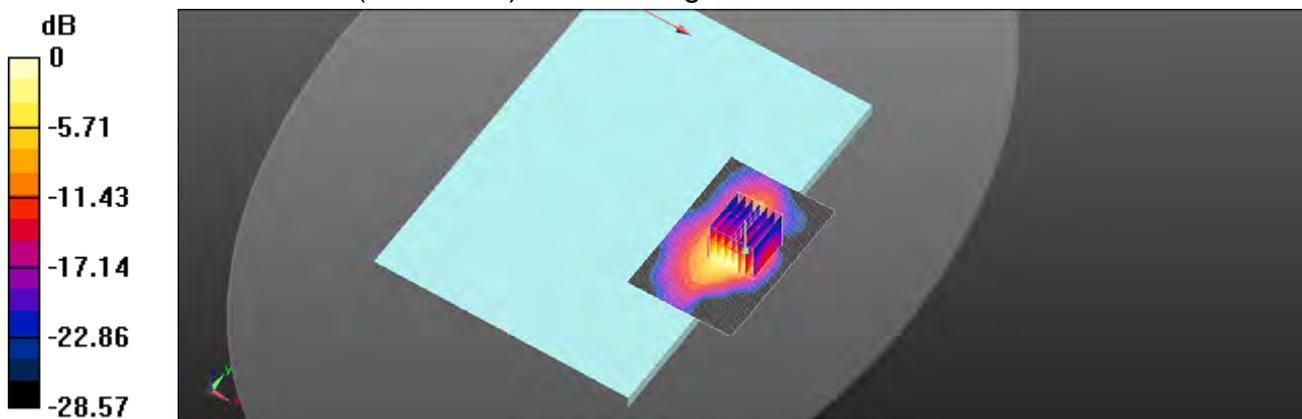
Peak SAR (extrapolated) = 2.51 W/kg

**SAR(1 g) = 0.929 W/kg; SAR(10 g) = 0.361 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kg = 1.86 dBW/kg

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**Report No. : E5/2021/20015**

**WLAN 802.11n(40M) 5.2G\_Body\_Top side\_CH 38\_0mm\_Aux**

Communication System: WLAN 5G; Frequency: 5190 MHz; Duty Cycle: 1:0.990

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.609 \text{ S/m}$ ;  $\epsilon_r = 35.554$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(5.51, 5.51, 5.51); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.248 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.999 V/m; Power Drift = 0.03 dB

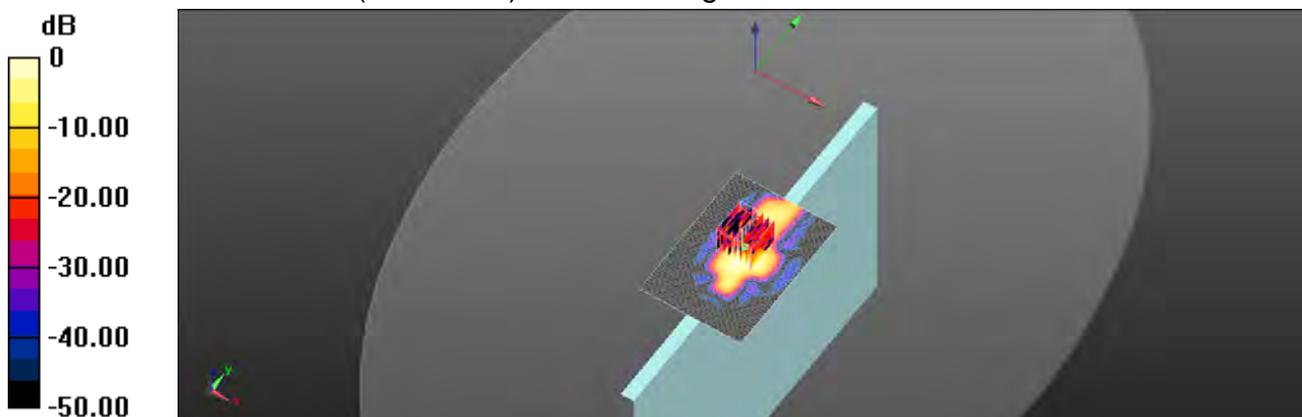
Peak SAR (extrapolated) = 0.419 W/kg

**SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.021 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 0.217 W/kg



0 dB = 0.217 W/kg = -6.63 dBW/kg

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Date: 2021/4/4

**Report No. : E5/2021/20017**
**WLAN 802.11n(40M) 5.3G\_Body\_Top side\_CH 54\_0mm\_Aux**

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:0.990

 Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.695$  S/m;  $\epsilon_r = 35.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(5.51, 5.51, 5.51); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.254 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.065 V/m; Power Drift = 0.05 dB

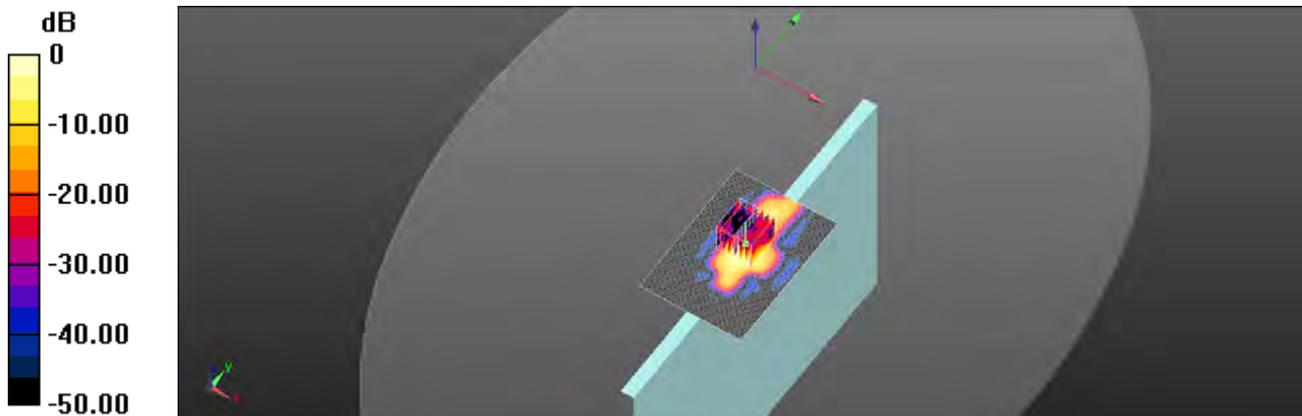
Peak SAR (extrapolated) = 0.724 W/kg

**SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.036 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 0.402 W/kg



0 dB = 0.402 W/kg = -3.96 dBW/kg

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**Report No. : E5/2021/20017**
**WLAN 802.11n(40M) 5.6G\_Body\_Top side\_CH 110\_0mm\_Aux**

Communication System: WLAN 5G; Frequency: 5550 MHz; Duty Cycle: 1:0.990

 Medium parameters used:  $f = 5550$  MHz;  $\sigma = 4.982$  S/m;  $\epsilon_r = 35.048$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(5, 5, 5); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.75 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 20.10 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 5.62 W/kg

**SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.230 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 51.7%

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

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 20.10 V/m; Power Drift = 0.03 dB

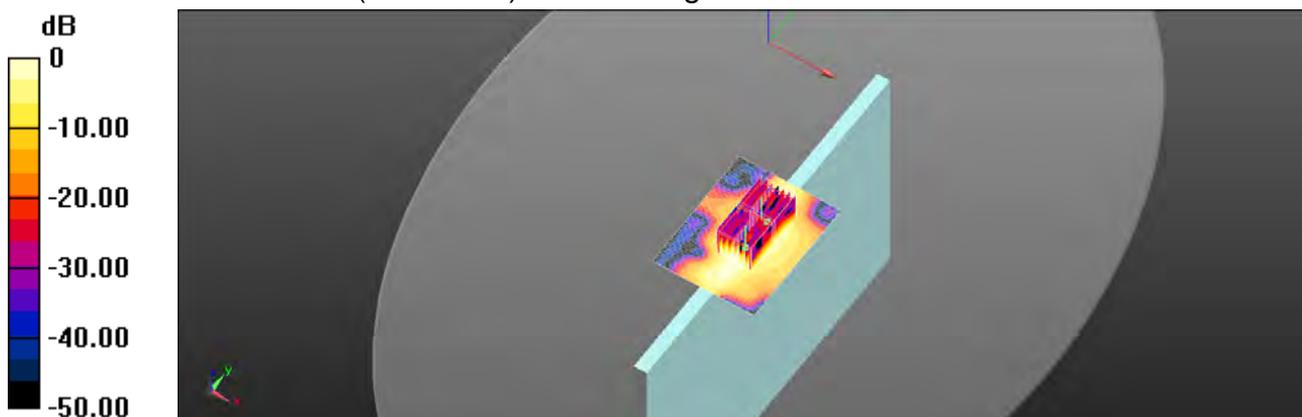
Peak SAR (extrapolated) = 2.98 W/kg

**SAR(1 g) = 0.623 W/kg; SAR(10 g) = 0.198 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.98 dBW/kg

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**Report No. : E5/2021/20017**
**WLAN 802.11ac(80M) 5.6G\_Body\_Top side\_CH 138\_0mm\_Aux**

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:0.987

 Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.114$  S/m;  $\epsilon_r = 35.032$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(4.95, 4.95, 4.95); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.85 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.36 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 6.21 W/kg

**SAR(1 g) = 0.990 W/kg; SAR(10 g) = 0.221 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

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

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.36 V/m; Power Drift = 0.06 dB

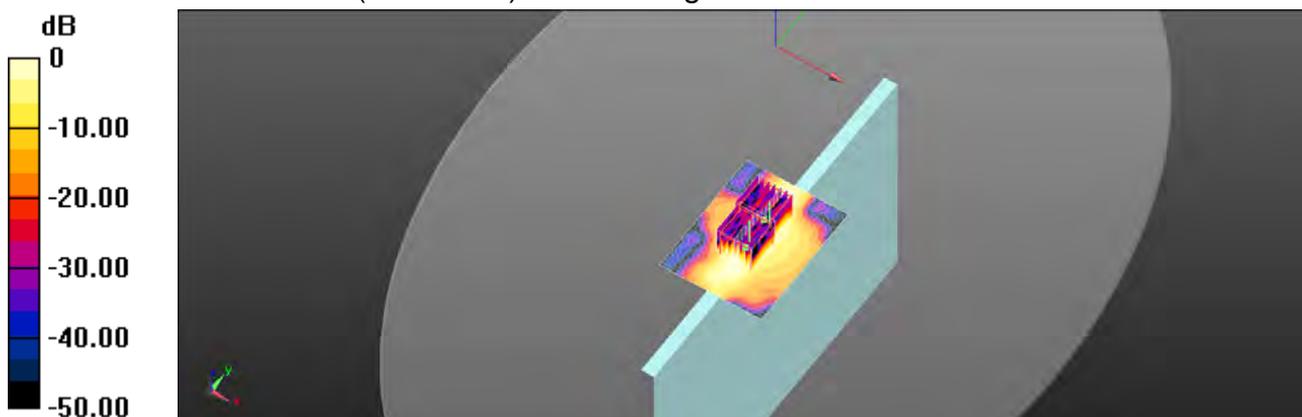
Peak SAR (extrapolated) = 3.28 W/kg

**SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.186 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

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



0 dB = 1.34 W/kg = 1.27 dBW/kg

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**Report No. : E5/2021/20017**
**WLAN 802.11n(40M) 5.8G\_Body\_Top side\_CH 151\_0mm\_Aux**

Communication System: WLAN 5G; Frequency: 5755 MHz; Duty Cycle: 1:0.990

 Medium parameters used:  $f = 5755$  MHz;  $\sigma = 5.182$  S/m;  $\epsilon_r = 34.959$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(4.95, 4.95, 4.95); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.66 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.98 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 6.08 W/kg

**SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.230 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 2.45 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.98 V/m; Power Drift = 0.02 dB

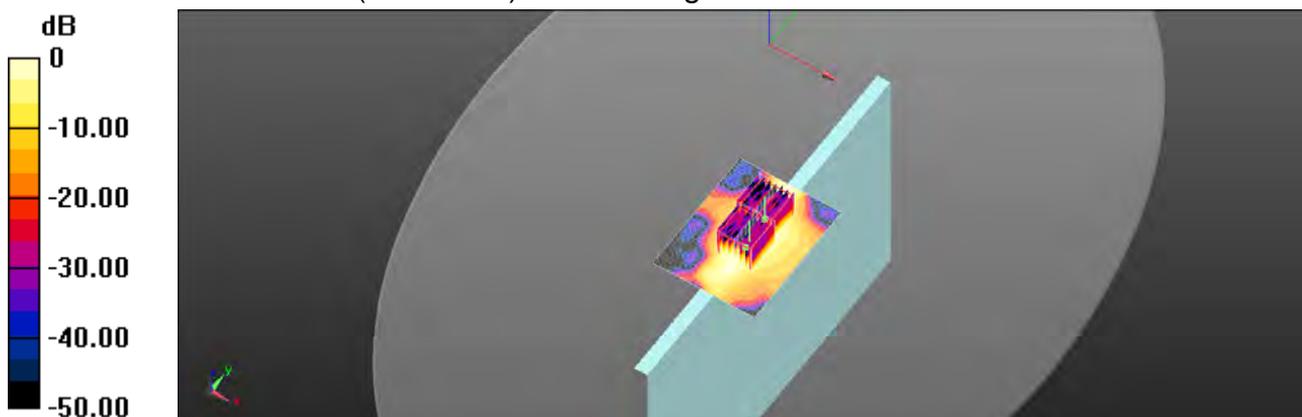
Peak SAR (extrapolated) = 2.98 W/kg

**SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.170 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

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**Report No. : E5/2021/20017**
**WLAN 802.11ac(80M) 5.8G\_Body\_Top side\_CH 155\_0mm\_Aux**

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:0.987

 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.214$  S/m;  $\epsilon_r = 35.064$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7628; ConvF(4.95, 4.95, 4.95); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.04 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.35 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 7.30 W/kg

**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.253 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 2.79 W/kg

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.35 V/m; Power Drift = 0.05 dB

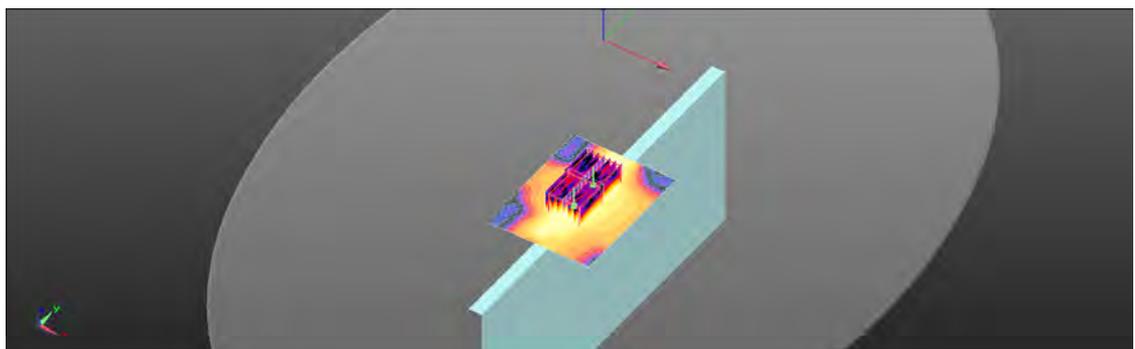
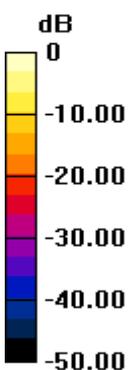
Peak SAR (extrapolated) = 3.81 W/kg

**SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.204 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 1.58 W/kg



0 dB = 1.58 W/kg = 1.97 dBW/kg

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## 6. SAR System Performance Verification

Date: 2021/4/7

**Report No. : E5/2021/20017**
**Dipole 750 MHz\_SN 1015**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.888 \text{ S/m}$ ;  $\epsilon_r = 41.178$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

 Ambient temperature:  $22.2^\circ\text{C}$ ; Liquid temperature:  $21.5^\circ\text{C}$ 

DASY5 Configuration:

Probe: EX3DV4 – SN7628; ConvF(10.48,10.48,10.48); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x71x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

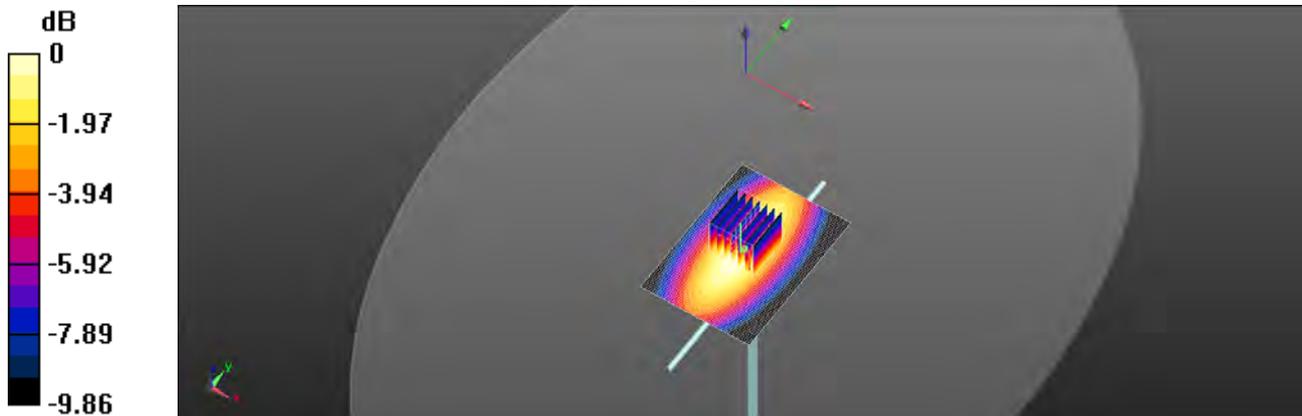
 Maximum value of SAR (interpolated) =  $2.92 \text{ W/kg}$ 
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

 Reference Value =  $58.59 \text{ V/m}$ ; Power Drift =  $0.04 \text{ dB}$ 

 Peak SAR (extrapolated) =  $3.50 \text{ W/kg}$ 
**SAR(1 g) =  $2.18 \text{ W/kg}$ ; SAR(10 g) =  $1.43 \text{ W/kg}$** 

 Smallest distance from peaks to all points 3 dB below =  $7.8 \text{ mm}$ 

 Ratio of SAR at M2 to SAR at M1 =  $67.5\%$ 

 Maximum value of SAR (measured) =  $2.96 \text{ W/kg}$ 

 $0 \text{ dB} = 2.96 \text{ W/kg} = 4.72 \text{ dBW/kg}$ 

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**Report No. : E5/2021/20017**
**Dipole 835 MHz\_SN 4d63**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.895 \text{ S/m}$ ;  $\epsilon_r = 40.882$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(10.15,10.15,10.15); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x71x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.92 W/kg

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

Reference Value = 57.74 V/m; Power Drift = 0.02 dB

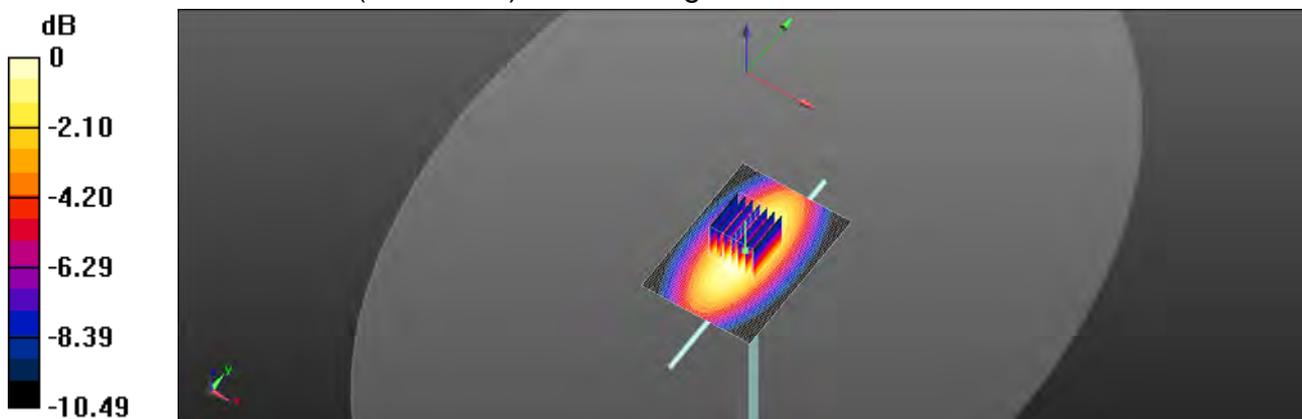
Peak SAR (extrapolated) = 3.50 W/kg

**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.54 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 66.9%

Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg = 4.73 dBW/kg

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**Report No. : E5/2021/20017**
**Dipole 1750 MHz\_SN 1008**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.36$  S/m;  $\epsilon_r = 39.642$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

Probe: EX3DV4 - SN7628; ConvF(8.76 8.76,8.76); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 12.0 W/kg

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

Reference Value = 95.98 V/m; Power Drift = 0.05 dB

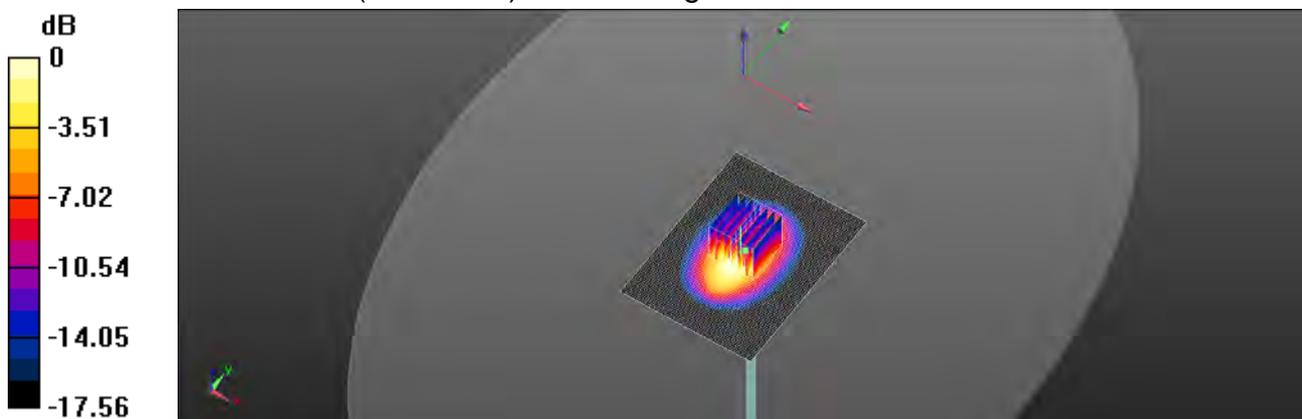
Peak SAR (extrapolated) = 15.3 W/kg

**SAR(1 g) = 8.77 W/kg; SAR(10 g) = 4.57 W/kg**

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg

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**Report No. : E5/2021/20017**
**Dipole 1900 MHz\_SN 5d173**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.389$  S/m;  $\epsilon_r = 39.472$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(8.38,8.38,8.38); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x91x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 16.8 W/kg

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

Reference Value = 109.0 V/m; Power Drift = -0.01 dB

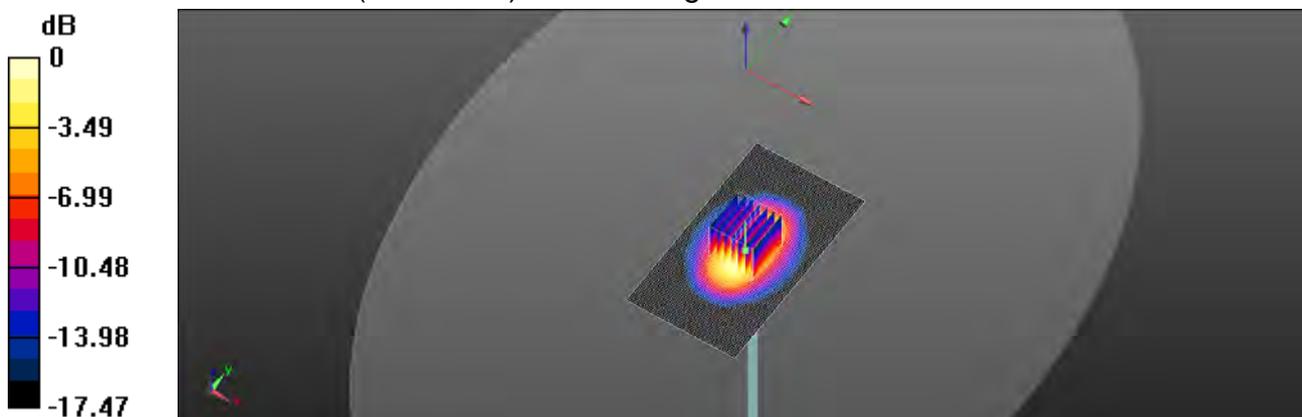
Peak SAR (extrapolated) = 20.8 W/kg

**SAR(1 g) = 9.98 W/kg; SAR(10 g) = 5.33 W/kg**

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

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Date: 2021/4/11

**Report No. : E5/2021/20017**
**Dipole 2300 MHz\_SN 1023**

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 2300$  MHz;  $\sigma = 1.653$  S/m;  $\epsilon_r = 38.961$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(8.15,8.15,8.15); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 104.4 V/m; Power Drift = 0.02dB

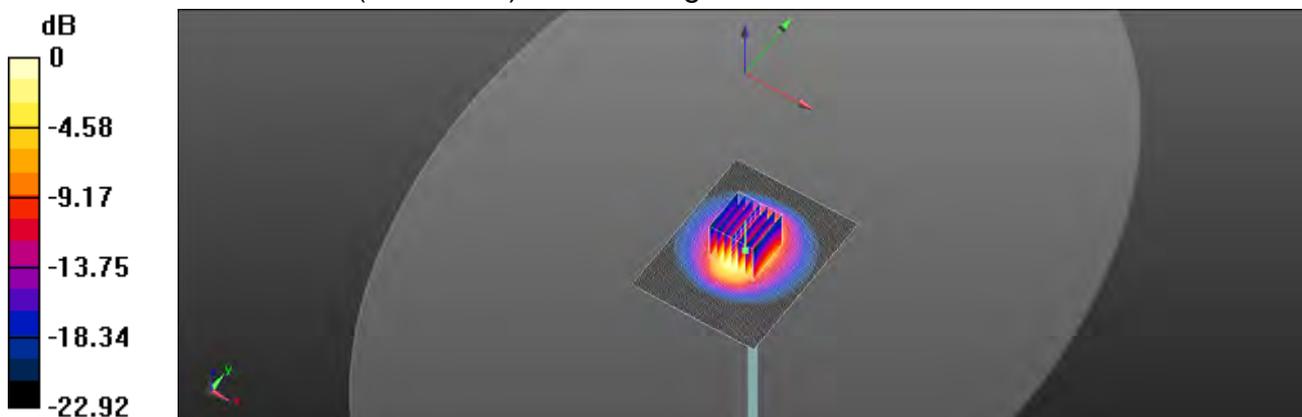
Peak SAR (extrapolated) = 25.3 W/kg

**SAR(1 g) = 11.9 W/kg; SAR(10 g) = 5.49 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 57.2%

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



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

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**Report No. : E5/2021/20017**
**Dipole 2450 MHz\_SN 727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.788$  S/m;  $\epsilon_r = 38.749$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(8.01,8.01,8.01); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.1 W/kg

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

Reference Value = 99.25 V/m; Power Drift = 0.02 dB

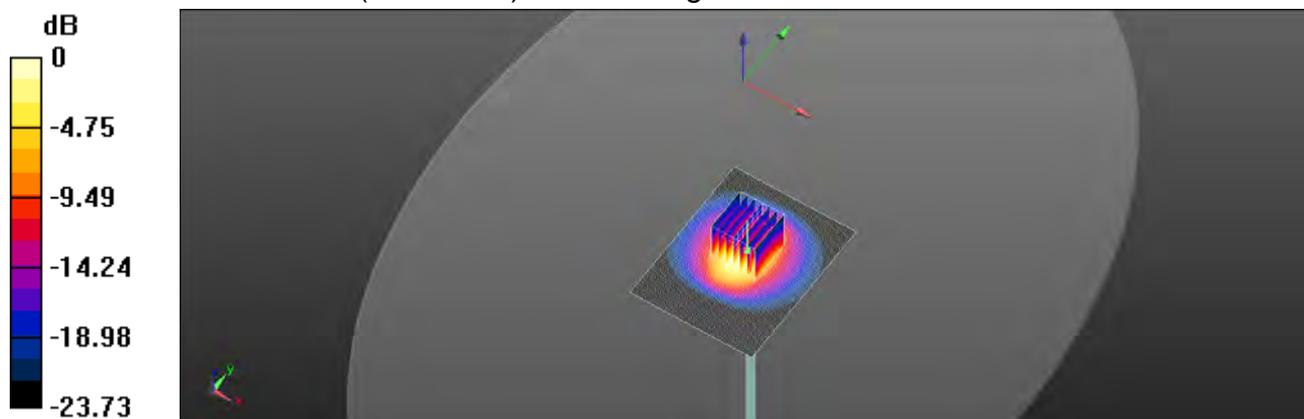
Peak SAR (extrapolated) = 28.9 W/kg

**SAR(1 g) = 13.2 W/kg; SAR(10 g) = 5.97 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

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**Report No. : E5/2021/20017**
**Dipole 2600 MHz\_SN 1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.964$  S/m;  $\epsilon_r = 39.153$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(7.71,7.71,7.71); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.8 W/kg

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

Reference Value = 105.0 V/m; Power Drift = -0.01 dB

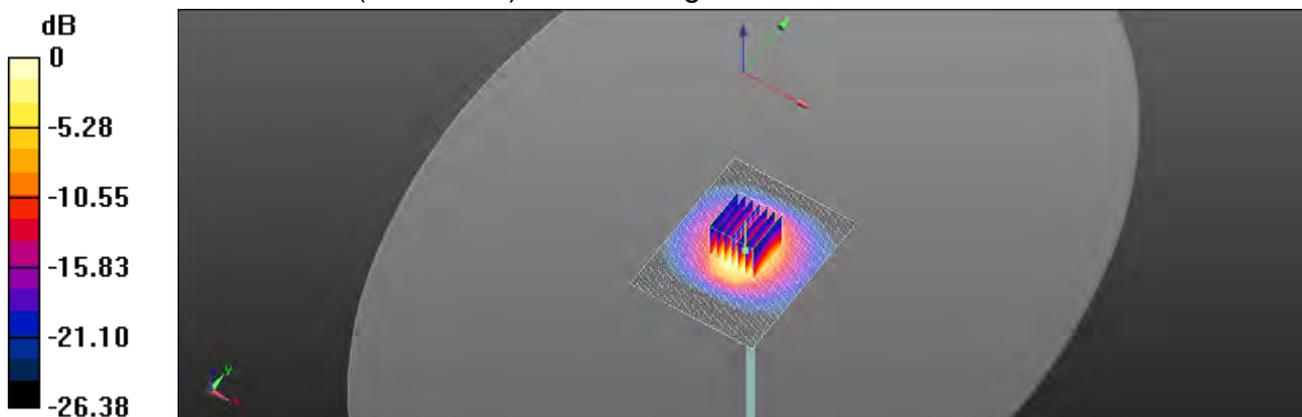
Peak SAR (extrapolated) = 31.8 W/kg

**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 5.9 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 21.9 W/kg



0 dB = 21.9 W/kg = 13.41 dBW/kg

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**Report No. : E5/2021/20017**
**Dipole 5200 MHz\_SN 1023**

Communication System: CW5GHz; Frequency: 5200 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.626$  S/m;  $\epsilon_r = 35.334$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(5.51,5.51,5.51); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 19.0 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.62 V/m; Power Drift = 0.01 dB

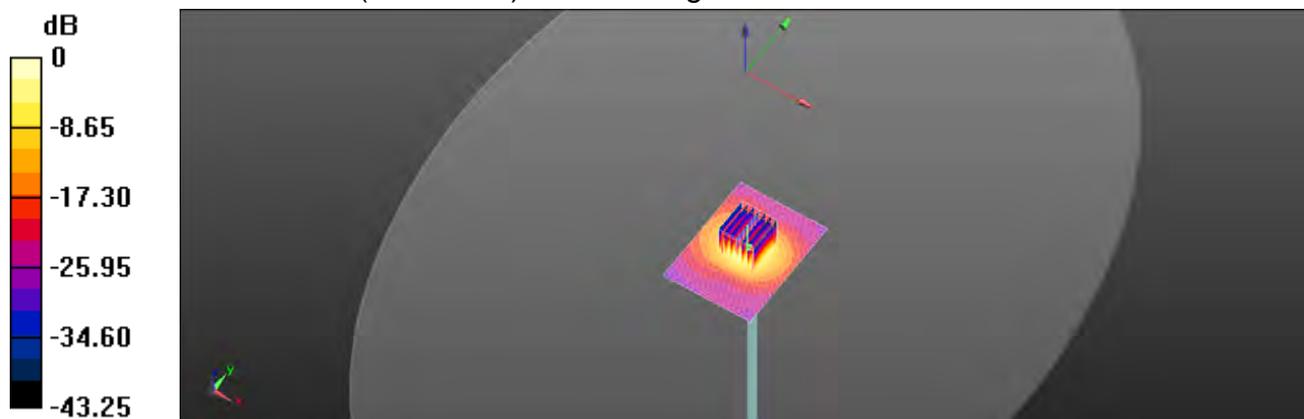
Peak SAR (extrapolated) = 39.0 W/kg

**SAR(1 g) = 8.38 W/kg; SAR(10 g) = 2.33 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg = 12.49 dBW/kg

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**Report No. : E5/2021/20017**
**Dipole 5300 MHz\_SN 1023**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 4.727 \text{ S/m}$ ;  $\epsilon_r = 35.333$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

 Ambient temperature:  $22.1^\circ\text{C}$ ; Liquid temperature:  $21.7^\circ\text{C}$ 
**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(5.51,5.51,5.51); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$ 

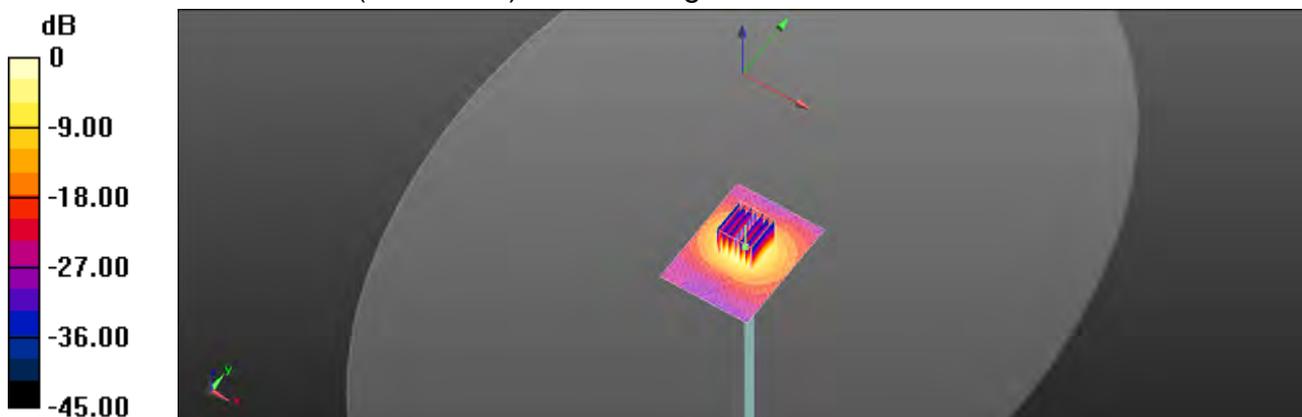
 Maximum value of SAR (interpolated) =  $17.9 \text{ W/kg}$ 
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

 Reference Value =  $56.47 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$ 

 Peak SAR (extrapolated) =  $35.7 \text{ W/kg}$ 
**SAR(1 g) =  $7.85 \text{ W/kg}$ ; SAR(10 g) =  $2.22 \text{ W/kg}$** 

 Smallest distance from peaks to all points 3 dB below =  $6.4 \text{ mm}$ 

 Ratio of SAR at M2 to SAR at M1 =  $50.4\%$ 

 Maximum value of SAR (measured) =  $16.8 \text{ W/kg}$ 

 $0 \text{ dB} = 16.8 \text{ W/kg} = 12.24 \text{ dBW/kg}$ 

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**Report No. : E5/2021/20017**
**Dipole 5600 MHz\_SN 1023**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.024$  S/m;  $\epsilon_r = 35.148$ ;  $\rho = 2600$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(5,5,5); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 10.8 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 65.46 V/m; Power Drift = -0.01 dB

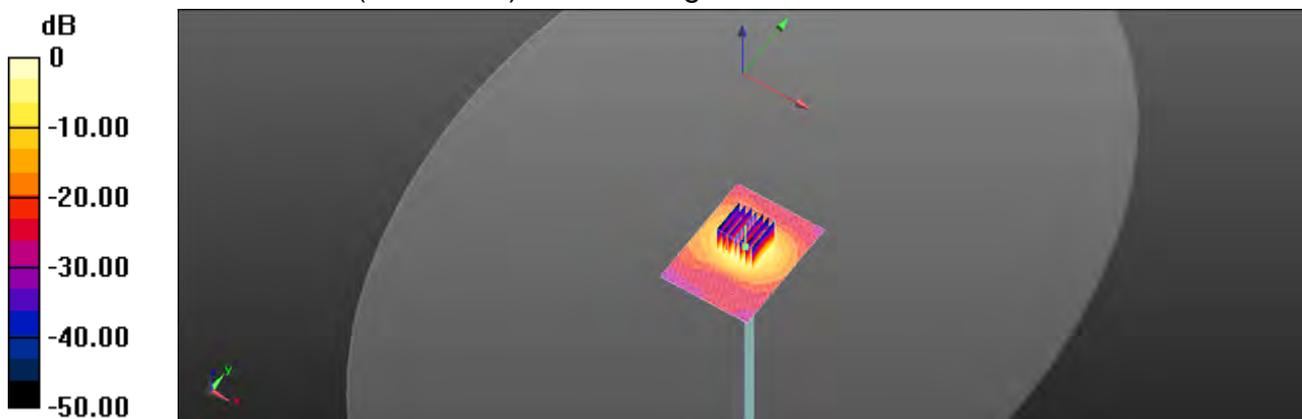
Peak SAR (extrapolated) = 22.6 W/kg

**SAR(1 g) = 8.55 W/kg; SAR(10 g) = 2.32 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 9.83 W/kg



0 dB = 9.83 W/kg = 9.93 dBW/kg

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Date: 2021/4/6

**Report No. : E5/2021/20017**
**Dipole 5800 MHz\_SN 1023**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.232 \text{ S/m}$ ;  $\epsilon_r = 35.035$ ;  $\rho = 1300 \text{ kg/m}^3$ 

Phantom section: Flat Section

 Ambient temperature:  $22.3^\circ\text{C}$ ; Liquid temperature:  $21.6^\circ\text{C}$ 
**DASY5 Configuration:**

Probe: EX3DV4 – SN7628; ConvF(4.95,4.95,4.95); Calibrated: 2021/2/16

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2020/8/13

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$ 

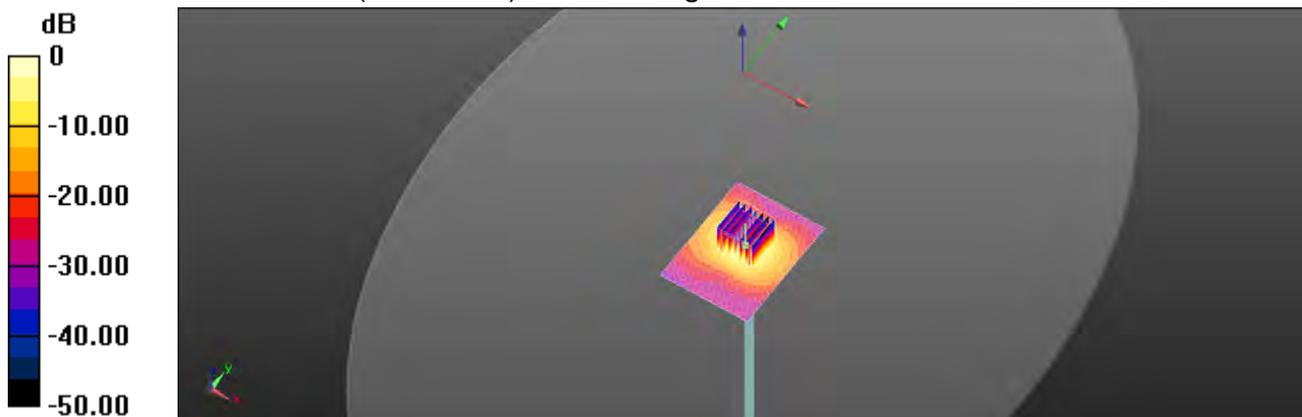
 Maximum value of SAR (interpolated) =  $16.6 \text{ W/kg}$ 
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

 Reference Value =  $59.56 \text{ V/m}$ ; Power Drift =  $0.03 \text{ dB}$ 

 Peak SAR (extrapolated) =  $37.3 \text{ W/kg}$ 
**SAR(1 g) =  $8.51 \text{ W/kg}$ ; SAR(10 g) =  $2.37 \text{ W/kg}$** 

 Smallest distance from peaks to all points 3 dB below =  $7.5 \text{ mm}$ 

 Ratio of SAR at M2 to SAR at M1 =  $55.6\%$ 

 Maximum value of SAR (measured) =  $15.3 \text{ W/kg}$ 

 $0 \text{ dB} = 15.3 \text{ W/kg} = 11.84 \text{ dBW/kg}$ 

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## 7. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabiilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
<b>Measurement system</b>									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy , Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.90%	N	1	1	0.64	0.43	1.22%	0.82%	M
Liquid Conductivity (mea.)	0.87%	N	1	1	0.6	0.49	0.52%	0.43%	M
Combined standard uncertainty		RSS					11.79%	11.74%	
Expant uncertainty (95% confidence)							23.58%	23.49%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	$h=c * f / e$	$i=c * g / e$	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
<b>Measurement system</b>									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<b>Isotropy, Axial</b>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<b>Isotropy, Hemispherical</b>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.91%	N	1	1	0.64	0.43	1.22%	0.82%	M
Liquid Conductivity (mea.)	1.89%	N	1	1	0.6	0.49	1.13%	0.93%	M
Combined standard uncertainty		RSS					11.54%	11.48%	
Expant uncertainty (95% confidence)							23.08%	22.95%	

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## Appendixes

**Refer to separated files for the following appendixes.**

**E5202120015 SAR\_Appendix A Photographs**

**E5202120015 SAR\_Appendix B DAE & Probe Cal. Certificate**

**E5202120015 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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