

SAR TEST REPORT



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

Equipment Under Test	Smart phone
Brand Name	HONOR
Model No.	ANY-NX1
Applicant	HONOR Device Co., Ltd. Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	2AYGCANY-NX1
Date of Receipt	Feb. 17, 2022
Date of Test(s)	Mar. 23, 2022 ~ Apr. 04, 2022
Date of Issue	Apr. 12, 2022

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.

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Signed on behalf of SGS

Clerk / Ruby Ou	PM / Kiki Lin	Approved By / John Yeh

Date: Apr. 12, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
ES/2022/30012	Rev.00	Initial creation of document	Apr. 08, 2022	Ruby Ou	*
ES/2022/30012	Rev.01	Modify report according to customer requirements	Apr. 11, 2022	Ruby Ou	*
ES/2022/30012	Rev.02	Modify Plimit table in p. 249-250	Apr. 12, 2022	Ruby Ou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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Contents

0.Guidance applied	4
1. General Information	5
1.1 Testing Laboratory	5
1.2 Details of Applicant.....	5
1.3 Description of EUT	6
1.3.1 Ant 0	10
1.3.2 Ant 1	67
1.3.3 Ant 2	74
1.3.4 Ant 3	81
1.3.5 Ant 4	114
1.3.6 Ant 7	163
1.3.7 Ant 9	196
1.3.8 Ant 8	199
1.3.8 Bluetooth conducted power table (Ant 9)	206
1.3.9 Intra-band ULCA power table	212
1.3.10 LTE Downlink CA specification.....	230
1.3.11 SAR test exclusion for LTE DL MIMO	235
1.4 Test Environment	236
1.5 Operation Description	236
1.6 Smart Transmit feature for RF Exposure compliance	247
1.6.1 SAR_design_target and Uncertainty.....	248
1.7 The SAR Measurement System.....	252
1.8 System Components.....	254
1.9 SAR System Verification	256
1.10 Tissue Simulant Fluid for the Frequency Band	258
1.11 Evaluation Procedures	263
1.12 Probe Calibration Procedures	264
1.13 Test Standards and Limits.....	267
2. Summary of Results	269
2.1 Decision rules.....	269
2.2 Summary of Results.....	269
2.3 Reporting statements of conformity	296
3. Simultaneous Transmission Analysis.....	297
3.1 Estimated SAR calculation.....	298
3.2 SPLSR evaluation and analysis.....	298
4. Instruments List	313
5. Measurements	314
6. SAR System Performance Verification	418
7. Uncertainty Budget.....	429
Appendixes.....	431
FCC SAR Part 1 Appendix A ES202230012	431
FCC SAR Part 1 Appendix B ES202230012.....	431
FCC SAR Part 1 Appendix C ES202230012.....	431

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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

KDB648474D04v01r03

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB941225D05Av01r02

KDB941225D06v02r01

KDB447498D01v06

KDB248227D01v02r02

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab	
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	
FCC Designation Number	TW0027
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	HONOR Device Co., Ltd.
Company Address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

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1.3 Description of EUT

Equipment Under Test	Smart phone		
Brand Name	HONOR		
Model No.	ANY-NX1		
Hardware Version	HN3ANYM		
Software Version	4.2.0.42(C900E42R1P3)		
FCC ID	2AYGCANY-NX1		
Mode of Operation	<input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> GPRS <input checked="" type="checkbox"/> EDGE <input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> DC-HSDPA <input checked="" type="checkbox"/> LTE FDD <input checked="" type="checkbox"/> LTE TDD <input checked="" type="checkbox"/> 5G NR <input checked="" type="checkbox"/> WLAN802.11 <input checked="" type="checkbox"/> Bluetooth		
Duty Cycle	GSM (DTM multi class B)	1/8.3	
	GPRS / EDGE (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)	
	WCDMA	1	
	LTE FDD	1	
	LTE TDD	0.633	
	5G NR	1	
	WLAN802.11	Please refer to pages 206-209	
	Bluetooth	0.873	
TX Frequency Range (MHz)	GSM850	824	— 849
	GSM1900	1850	— 1910
	WCDMA Band II	1850	— 1910
	WCDMA Band V	824	— 849

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TX Frequency Range (MHz)	LTE FDD Band 5	824 – 849
	LTE FDD Band 7	2500 – 2570
	LTE TDD Band 38	2570 – 2620
	LTE TDD Band 41	2496 – 2690
	n7	2500 – 2570
	n38	2570 – 2620
	n41	2496 – 2690
	WLAN802.11 b/g/n	2.4GHz (2400.0 – 2483.5)
	WLAN802.11 a/n/ac	5.2GHz (5150.0 – 5350.0) 5.6GHz (5470.0 – 5725.0) 5.8GHz (5725.0 – 5850.0)
	Bluetooth	2.4GHz (2400.0 – 2483.5)
RX Frequency Range (MHz)	GSM850	869-894
	GSM1900	1930-1990
	WCDMA Band II	1930-1990
	WCDMA Band V	869-894
	LTE FDD Band 5	869–894
	LTE FDD Band 7	2620–2690
	LTE TDD Band 38	2570–2620
	LTE TDD Band 41	2496-2690
	n7	2620–2690
	n38	2570-2620
	n41	2496-2690
	WLAN802.11 b/g/n	2.4GHz (2400.0 – 2483.5)
	WLAN802.11 a/n/ac	5.2GHz (5150.0 – 5350.0) 5.6GHz (5470.0 – 5725.0) 5.8GHz (5725.0 – 5850.0)

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RX Frequency Range (MHz)	Bluetooth	2.4GHz (2400.0 – 2483.5)
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Summary of Maximum SAR

Head	Highest SAR 1g (W/kg)
2.4G WLAN	0.59
5G WLAN	0.64
Bluetooth(GFSK)	0.13
WWAN	1.07

Hotspot	Highest SAR 1g (W/kg)
2.4G WLAN	0.37
5G WLAN	0.70
Bluetooth(GFSK)	0.12
WWAN	1.09

Body-Worn	Highest SAR 1g (W/kg)
2.4G WLAN	0.32
5G WLAN	0.38
Bluetooth(GFSK)	0.02
WWAN	0.66

Extremity	Highest SAR 10g (W/kg)
2.4G WLAN	1.68
5G WLAN	2.08
Bluetooth(GFSK)	0.30
WWAN	2.78

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Conducted power table:
1.3.1 Ant 0
2G BODY DSI 3

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power	Source-based time average power	
				Avg. (dBm)	Avg. (dBm)	
GSM1900 (GMSK)	1850.2	512	30.5	29.53	20.50	
	1800	661	30.5	29.62	20.59	
	1909.8	810	30.5	29.66	20.63	
The division factor compared to the number of TX time slot						
Division factor				1 TX time slot		
				-9.03		
Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	25.7	24.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	29.33	25.82	24.11	24.06
	1880	661	29.61	25.85	24.93	24.16
	1909.8	810	29.52	25.57	24.66	24.48
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	20.30	19.80	19.85	21.05
	1880	661	20.58	19.83	20.67	21.15
	1909.8	810	20.49	19.55	20.40	21.47
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	24.5	22.7	21.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	26.99	23.85	22.09	20.87
	1880	661	26.97	23.97	22.20	20.97
	1909.8	810	26.86	23.86	22.10	20.90
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	17.96	17.83	17.83	17.86
	1880	661	17.94	17.95	17.94	17.96
	1909.8	810	17.83	17.84	17.84	17.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

2G_HEAD DSI 8

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power	Source-based time average power
				Avg. (dBm)	Avg. (dBm)
GSM1900 (GMSK)	1850.2	512	30.5	29.53	20.50
	1800	661	30.5	29.62	20.59
	1909.8	810	30.5	29.66	20.63
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	25.7	24.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	29.33	25.82	24.11	22.62
	1880	661	29.61	25.85	24.93	23.11
	1909.8	810	29.52	25.57	24.66	22.89
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	20.30	19.80	19.85	19.61
	1880	661	20.58	19.83	20.67	20.10
	1909.8	810	20.49	19.55	20.40	19.88
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01
Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	24.5	22.7	21.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	26.99	23.85	22.09	20.87
	1880	661	26.97	23.97	22.20	20.97
	1909.8	810	26.86	23.86	22.10	20.90
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	17.96	17.83	17.83	17.86
	1880	661	17.94	17.95	17.94	17.96
	1909.8	810	17.83	17.84	17.84	17.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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2G_HOTSPOT_DSI_13

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Source-based time average power		
				Burst average power Avg. (dBm)	Avg. (dBm)	
GSM1900 (GMSK)	1850.2	512	30.5	29.53	20.50	
	1800	661	30.5	29.62	20.59	
	1909.8	810	30.5	29.66	20.63	
The division factor compared to the number of TX time slot						
Division factor				1 TX time slot		
				-9.03		
Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	25.7	24.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	29.33	25.82	24.11	24.06
	1880	661	29.61	25.85	24.93	24.16
	1909.8	810	29.52	25.57	24.66	24.48
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	20.30	19.80	19.85	21.05
	1880	661	20.58	19.83	20.67	21.15
	1909.8	810	20.49	19.55	20.40	21.47
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	24.5	22.7	21.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	26.99	23.85	22.09	20.87
	1880	661	26.97	23.97	22.20	20.97
	1909.8	810	26.86	23.86	22.10	20.90
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	17.96	17.83	17.83	17.86
	1880	661	17.94	17.95	17.94	17.96
	1909.8	810	17.83	17.84	17.84	17.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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3G_BODY DSI 3

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		22.50		
3GPP Rel 99	RMC 12.2Kbps	22.08	22.36	22.41
3GPP Rel 5	HSDPA Subtest-1	21.64	21.66	21.63
	HSDPA Subtest-2	21.70	21.46	21.48
	HSDPA Subtest-3	21.34	21.02	21.14
	HSDPA Subtest-4	21.27	21.40	21.19
3GPP Rel 6	HSUPA Subtest-1	21.67	21.72	21.64
	HSUPA Subtest-2	19.59	19.70	19.73
	HSUPA Subtest-3	20.55	20.65	20.70
	HSUPA Subtest-4	19.67	19.71	19.81
	HSUPA Subtest-5	21.84	21.58	21.74
3GPP Rel 8	DC-HSDPA Subtest-1	21.69	21.51	21.78
	DC-HSDPA Subtest-2	21.70	21.65	21.60
	DC-HSDPA Subtest-3	21.05	21.07	21.37
	DC-HSDPA Subtest-4	21.20	21.17	21.26

3G_HEAD DSI 8

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		23.50		
3GPP Rel 99	RMC 12.2Kbps	22.18	22.38	22.48
3GPP Rel 5	HSDPA Subtest-1	21.94	21.93	21.90
	HSDPA Subtest-2	21.96	21.82	21.81
	HSDPA Subtest-3	21.57	21.42	21.49
	HSDPA Subtest-4	21.57	21.60	21.48
3GPP Rel 6	HSUPA Subtest-1	21.95	22.02	21.93
	HSUPA Subtest-2	19.93	20.05	20.10
	HSUPA Subtest-3	20.92	21.00	20.98
	HSUPA Subtest-4	20.01	20.08	20.08
	HSUPA Subtest-5	22.06	21.90	22.04
3GPP Rel 8	DC-HSDPA Subtest-1	21.94	21.85	21.98
	DC-HSDPA Subtest-2	21.99	21.88	21.92
	DC-HSDPA Subtest-3	21.44	21.41	21.59
	DC-HSDPA Subtest-4	21.59	21.42	21.48

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3G_HOTSPOT DSI 13

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		21.00		
3GPP Rel 99	RMC 12.2Kbps	19.47	19.57	19.58
3GPP Rel 5	HSDPA Subtest-1	18.82	18.82	18.83
	HSDPA Subtest-2	18.92	18.98	18.92
	HSDPA Subtest-3	18.55	18.49	18.49
	HSDPA Subtest-4	18.59	18.42	18.54
3GPP Rel 6	HSUPA Subtest-1	19.04	18.97	18.99
	HSUPA Subtest-2	17.09	17.00	17.01
	HSUPA Subtest-3	17.97	17.98	18.00
	HSUPA Subtest-4	17.00	16.96	17.09
	HSUPA Subtest-5	18.98	19.09	18.90
3GPP Rel 8	DC-HSDPA Subtest-1	18.81	18.82	18.98
	DC-HSDPA Subtest-2	18.87	18.92	18.93
	DC-HSDPA Subtest-3	18.49	18.41	18.56
	DC-HSDPA Subtest-4	18.54	18.55	18.57

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FD LTE BODY DSI 3

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	22.04	22.01	21.98	23.70	0
		1	50	21.90	21.87	21.97	23.70	0
		1	99	21.95	21.84	21.94	23.70	0
		50	0	20.91	20.80	20.82	22.70	1
		50	25	20.94	20.93	20.78	22.70	1
		50	50	20.83	20.92	20.91	22.70	1
		100	0	20.87	20.96	20.93	22.70	1
	16-QAM	1	0	20.95	20.93	20.77	22.70	1
		1	50	20.96	20.87	20.81	22.70	1
		1	99	20.96	20.92	20.91	22.70	1
		50	0	19.84	19.88	19.86	21.70	2
		50	25	19.77	19.93	19.83	21.70	2
		50	50	19.90	19.90	19.85	21.70	2
		100	0	19.87	19.84	19.81	21.70	2
	64-QAM	1	0	19.79	19.95	19.85	21.70	2
		1	50	19.84	19.83	19.79	21.70	2
		1	99	19.89	19.86	19.83	21.70	2
		50	0	18.90	18.82	18.97	20.70	3
		50	25	18.79	18.78	18.82	20.70	3
		50	50	18.84	18.94	18.95	20.70	3
		100	0	18.89	18.86	18.94	20.70	3
	256-QAM	1	0	18.83	18.96	18.86	20.70	3
		1	50	18.97	18.84	18.92	20.70	3
		1	99	18.88	18.94	18.83	20.70	3
		50	0	17.92	17.88	17.86	19.70	4
		50	25	17.80	17.80	17.82	19.70	4
		50	50	17.90	17.95	17.79	19.70	4
		100	0	17.95	17.86	17.92	19.70	4

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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)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	21.73	21.86	21.71	23.70	0
		1	36	21.73	21.75	21.87	23.70	0
		1	74	21.89	21.73	21.81	23.70	0
		36	0	20.82	20.88	20.73	22.70	1
		36	18	20.76	20.88	20.73	22.70	1
		36	37	20.73	20.89	20.72	22.70	1
		75	0	20.84	20.80	20.83	22.70	1
	16-QAM	1	0	20.73	20.90	20.74	22.70	1
		1	36	20.76	20.88	20.90	22.70	1
		1	74	20.78	20.77	20.75	22.70	1
		36	0	19.78	19.85	19.84	21.70	2
		36	18	19.74	19.84	19.87	21.70	2
		36	37	19.79	19.88	19.76	21.70	2
		75	0	19.75	19.89	19.82	21.70	2
	64-QAM	1	0	19.73	19.76	19.85	21.70	2
		1	36	19.72	19.75	19.77	21.70	2
		1	74	19.87	19.71	19.71	21.70	2
		36	0	18.81	18.73	18.90	20.70	3
		36	18	18.85	18.80	18.80	20.70	3
		36	37	18.84	18.90	18.87	20.70	3
		75	0	18.70	18.84	18.85	20.70	3
	256-QAM	1	0	18.79	18.84	18.87	20.70	3
		1	36	18.82	18.79	18.74	20.70	3
		1	74	18.89	18.81	18.87	20.70	3
		36	0	17.84	17.78	17.88	19.70	4
		36	18	17.86	17.71	17.76	19.70	4
		36	37	17.75	17.77	17.84	19.70	4
		75	0	17.78	17.75	17.87	19.70	4

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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	21.86	21.76	21.79	23.70	0
		1	25	21.70	21.70	21.73	23.70	0
		1	49	21.88	21.73	21.89	23.70	0
		25	0	20.80	20.84	20.86	22.70	1
		25	12	20.84	20.88	20.88	22.70	1
		25	25	20.71	20.86	20.86	22.70	1
		50	0	20.80	20.84	20.86	22.70	1
	16-QAM	1	0	20.81	20.87	20.77	22.70	1
		1	25	20.89	20.78	20.70	22.70	1
		1	49	20.76	20.76	20.82	22.70	1
		25	0	19.74	19.89	19.74	21.70	2
		25	12	19.74	19.79	19.79	21.70	2
		25	25	19.90	19.76	19.89	21.70	2
		50	0	19.82	19.80	19.82	21.70	2
	64-QAM	1	0	19.71	19.82	19.74	21.70	2
		1	25	19.76	19.74	19.72	21.70	2
		1	49	19.85	19.75	19.76	21.70	2
		25	0	18.88	18.71	18.86	20.70	3
		25	12	18.80	18.71	18.71	20.70	3
		25	25	18.87	18.70	18.84	20.70	3
		50	0	18.82	18.81	18.86	20.70	3
	256-QAM	1	0	18.85	18.84	18.74	20.70	3
		1	25	18.88	18.84	18.84	20.70	3
		1	49	18.88	18.88	18.89	20.70	3
		25	0	17.76	17.84	17.77	19.70	4
		25	12	17.79	17.79	17.70	19.70	4
		25	25	17.75	17.70	17.72	19.70	4
		50	0	17.74	17.86	17.85	19.70	4

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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)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	21.80	21.75	21.87	23.70	0
		1	12	21.79	21.75	21.84	23.70	0
		1	24	21.80	21.85	21.72	23.70	0
		12	0	20.72	20.70	20.76	22.70	1
		12	6	20.82	20.78	20.79	22.70	1
		12	13	20.87	20.77	20.78	22.70	1
		25	0	20.89	20.75	20.90	22.70	1
	16-QAM	1	0	20.87	20.78	20.85	22.70	1
		1	12	20.80	20.71	20.71	22.70	1
		1	24	20.88	20.83	20.87	22.70	1
		12	0	19.89	19.72	19.86	21.70	2
		12	6	19.77	19.80	19.76	21.70	2
		12	13	19.88	19.81	19.82	21.70	2
		25	0	19.88	19.76	19.88	21.70	2
	64-QAM	1	0	19.88	19.84	19.82	21.70	2
		1	12	19.85	19.76	19.77	21.70	2
		1	24	19.80	19.88	19.71	21.70	2
		12	0	18.76	18.75	18.84	20.70	3
		12	6	18.72	18.82	18.83	20.70	3
		12	13	18.75	18.89	18.86	20.70	3
		25	0	18.86	18.84	18.79	20.70	3
	256-QAM	1	0	18.86	18.80	18.73	20.70	3
		1	12	18.71	18.79	18.77	20.70	3
		1	24	18.82	18.80	18.81	20.70	3
		12	0	17.82	17.82	17.88	19.70	4
		12	6	17.83	17.83	17.78	19.70	4
		12	13	17.87	17.80	17.86	19.70	4
		25	0	17.87	17.81	17.85	19.70	4

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FD LTE HEAD DSI 8

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	22.04	22.01	21.98	23.70	0
		1	50	21.76	21.79	21.80	23.70	0
		1	99	21.86	21.76	21.71	23.70	0
		50	0	20.88	20.84	20.77	22.70	1
		50	25	20.88	20.84	20.84	22.70	1
		50	50	20.86	20.89	20.73	22.70	1
		100	0	20.86	20.88	20.80	22.70	1
	16-QAM	1	0	20.80	20.76	20.75	22.70	1
		1	50	20.81	20.71	20.81	22.70	1
		1	99	20.85	20.74	20.85	22.70	1
		50	0	19.80	19.82	19.75	21.70	2
		50	25	19.75	19.88	19.84	21.70	2
		50	50	19.87	19.74	19.86	21.70	2
		100	0	19.89	19.71	19.82	21.70	2
	64-QAM	1	0	19.76	19.89	19.86	21.70	2
		1	50	19.82	19.82	19.71	21.70	2
		1	99	19.88	19.79	19.89	21.70	2
		50	0	18.86	18.86	18.81	20.70	3
		50	25	18.74	18.82	18.72	20.70	3
		50	50	18.82	18.77	18.76	20.70	3
		100	0	18.74	18.77	18.90	20.70	3
	256-QAM	1	0	18.73	18.80	18.88	20.70	3
		1	50	18.81	18.72	18.83	20.70	3
		1	99	18.74	18.77	18.73	20.70	3
		50	0	17.85	17.79	17.73	19.70	4
		50	25	17.87	17.73	17.74	19.70	4
		50	50	17.71	17.81	17.84	19.70	4
		100	0	17.83	17.87	17.73	19.70	4

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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)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	21.84	21.87	21.74	23.70	0
		1	36	21.76	21.84	21.70	23.70	0
		1	74	21.79	21.73	21.79	23.70	0
		36	0	20.80	20.74	20.73	22.70	1
		36	18	20.72	20.74	20.85	22.70	1
		36	37	20.87	20.82	20.82	22.70	1
		75	0	20.74	20.79	20.82	22.70	1
	16-QAM	1	0	20.90	20.88	20.89	22.70	1
		1	36	20.85	20.87	20.76	22.70	1
		1	74	20.79	20.77	20.89	22.70	1
		36	0	19.86	19.78	19.72	21.70	2
		36	18	19.88	19.77	19.76	21.70	2
		36	37	19.89	19.74	19.76	21.70	2
		75	0	19.73	19.79	19.82	21.70	2
	64-QAM	1	0	19.79	19.73	19.74	21.70	2
		1	36	19.75	19.70	19.83	21.70	2
		1	74	19.86	19.71	19.88	21.70	2
		36	0	18.79	18.84	18.78	20.70	3
		36	18	18.79	18.73	18.86	20.70	3
		36	37	18.88	18.75	18.77	20.70	3
		75	0	18.76	18.90	18.88	20.70	3
	256-QAM	1	0	18.83	18.89	18.80	20.70	3
		1	36	18.84	18.90	18.87	20.70	3
		1	74	18.77	18.87	18.72	20.70	3
		36	0	17.77	17.77	17.90	19.70	4
		36	18	17.89	17.83	17.88	19.70	4
		36	37	17.87	17.86	17.87	19.70	4
		75	0	17.71	17.77	17.85	19.70	4

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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	21.79	21.74	21.81	23.70	0
		1	25	21.79	21.85	21.81	23.70	0
		1	49	21.75	21.87	21.78	23.70	0
		25	0	20.83	20.79	20.73	22.70	1
		25	12	20.72	20.82	20.83	22.70	1
		25	25	20.78	20.70	20.71	22.70	1
		50	0	20.71	20.77	20.89	22.70	1
	16-QAM	1	0	20.72	20.73	20.76	22.70	1
		1	25	20.90	20.82	20.75	22.70	1
		1	49	20.80	20.84	20.81	22.70	1
		25	0	19.87	19.77	19.83	21.70	2
		25	12	19.78	19.76	19.71	21.70	2
		25	25	19.80	19.74	19.73	21.70	2
		50	0	19.79	19.73	19.71	21.70	2
	64-QAM	1	0	19.70	19.81	19.81	21.70	2
		1	25	19.81	19.71	19.76	21.70	2
		1	49	19.70	19.71	19.80	21.70	2
		25	0	18.80	18.79	18.70	20.70	3
		25	12	18.80	18.73	18.84	20.70	3
		25	25	18.73	18.85	18.78	20.70	3
		50	0	18.88	18.86	18.82	20.70	3
	256-QAM	1	0	18.71	18.84	18.79	20.70	3
		1	25	18.74	18.88	18.83	20.70	3
		1	49	18.71	18.71	18.71	20.70	3
		25	0	17.75	17.80	17.89	19.70	4
		25	12	17.79	17.87	17.78	19.70	4
		25	25	17.81	17.82	17.72	19.70	4
		50	0	17.85	17.88	17.73	19.70	4

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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)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	21.86	21.88	21.70	23.70	0
		1	12	21.88	21.70	21.83	23.70	0
		1	24	21.90	21.76	21.85	23.70	0
		12	0	20.87	20.89	20.87	22.70	1
		12	6	20.85	20.82	20.86	22.70	1
		12	13	20.79	20.76	20.71	22.70	1
		25	0	20.79	20.86	20.77	22.70	1
	16-QAM	1	0	20.88	20.89	20.78	22.70	1
		1	12	20.84	20.75	20.84	22.70	1
		1	24	20.74	20.80	20.84	22.70	1
		12	0	19.87	19.74	19.79	21.70	2
		12	6	19.84	19.71	19.80	21.70	2
		12	13	19.76	19.81	19.86	21.70	2
		25	0	19.81	19.83	19.90	21.70	2
	64-QAM	1	0	19.73	19.81	19.79	21.70	2
		1	12	19.73	19.77	19.79	21.70	2
		1	24	19.83	19.73	19.89	21.70	2
		12	0	18.73	18.90	18.78	20.70	3
		12	6	18.71	18.83	18.72	20.70	3
		12	13	18.75	18.77	18.74	20.70	3
		25	0	18.83	18.78	18.76	20.70	3
	256-QAM	1	0	18.90	18.83	18.89	20.70	3
		1	12	18.86	18.79	18.75	20.70	3
		1	24	18.79	18.90	18.85	20.70	3
		12	0	17.89	17.87	17.87	19.70	4
		12	6	17.74	17.84	17.79	19.70	4
		12	13	17.90	17.85	17.78	19.70	4
		25	0	17.76	17.74	17.75	19.70	4

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FD LTE HOTSPOT DSI 13

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	19.74	19.69	19.76	21.20	0
		1	50	19.62	19.60	19.69	21.20	0
		1	99	19.65	19.54	19.62	21.20	0
		50	0	18.62	18.62	18.58	20.20	1
		50	25	18.66	18.61	18.51	20.20	1
		50	50	18.54	18.65	18.52	20.20	1
		100	0	18.67	18.66	18.59	20.20	1
	16-QAM	1	0	18.55	18.53	18.69	20.20	1
		1	50	18.59	18.66	18.58	20.20	1
		1	99	18.54	18.56	18.51	20.20	1
		50	0	17.65	17.62	17.51	19.20	2
		50	25	17.66	17.64	17.63	19.20	2
		50	50	17.53	17.59	17.65	19.20	2
		100	0	17.64	17.54	17.64	19.20	2
	64-QAM	1	0	17.56	17.60	17.51	19.20	2
		1	50	17.51	17.68	17.60	19.20	2
		1	99	17.50	17.60	17.51	19.20	2
		50	0	16.69	16.57	16.63	18.20	3
		50	25	16.60	16.58	16.57	18.20	3
		50	50	16.55	16.70	16.61	18.20	3
		100	0	16.52	16.54	16.66	18.20	3
	256-QAM	1	0	16.57	16.51	16.59	18.20	3
		1	50	16.55	16.53	16.61	18.20	3
		1	99	16.67	16.57	16.58	18.20	3
		50	0	15.61	15.69	15.56	17.20	4
		50	25	15.50	15.56	15.68	17.20	4
		50	50	15.64	15.53	15.59	17.20	4
		100	0	15.60	15.66	15.56	17.20	4

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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)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	19.70	19.59	19.61	21.20	0
		1	36	19.61	19.70	19.52	21.20	0
		1	74	19.53	19.60	19.62	21.20	0
		36	0	18.66	18.58	18.66	20.20	1
		36	18	18.66	18.70	18.66	20.20	1
		36	37	18.69	18.66	18.70	20.20	1
		75	0	18.69	18.69	18.70	20.20	1
	16-QAM	1	0	18.66	18.61	18.66	20.20	1
		1	36	18.50	18.67	18.59	20.20	1
		1	74	18.56	18.61	18.68	20.20	1
		36	0	17.62	17.53	17.58	19.20	2
		36	18	17.53	17.54	17.51	19.20	2
		36	37	17.69	17.53	17.63	19.20	2
		75	0	17.50	17.53	17.50	19.20	2
	64-QAM	1	0	17.56	17.62	17.59	19.20	2
		1	36	17.55	17.67	17.50	19.20	2
		1	74	17.55	17.59	17.58	19.20	2
		36	0	16.57	16.58	16.58	18.20	3
		36	18	16.56	16.63	16.56	18.20	3
		36	37	16.68	16.65	16.51	18.20	3
		75	0	16.55	16.51	16.63	18.20	3
	256-QAM	1	0	16.58	16.65	16.67	18.20	3
		1	36	16.61	16.51	16.66	18.20	3
		1	74	16.58	16.62	16.54	18.20	3
		36	0	15.51	15.60	15.51	17.20	4
		36	18	15.56	15.55	15.58	17.20	4
		36	37	15.56	15.69	15.68	17.20	4
		75	0	15.68	15.57	15.59	17.20	4

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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	19.58	19.65	19.50	21.20	0
		1	25	19.61	19.51	19.60	21.20	0
		1	49	19.53	19.50	19.51	21.20	0
		25	0	18.68	18.53	18.56	20.20	1
		25	12	18.66	18.57	18.51	20.20	1
		25	25	18.69	18.51	18.69	20.20	1
		50	0	18.69	18.57	18.51	20.20	1
	16-QAM	1	0	18.59	18.55	18.64	20.20	1
		1	25	18.67	18.54	18.57	20.20	1
		1	49	18.68	18.55	18.66	20.20	1
		25	0	17.61	17.53	17.53	19.20	2
		25	12	17.67	17.52	17.54	19.20	2
		25	25	17.70	17.61	17.55	19.20	2
		50	0	17.62	17.69	17.66	19.20	2
	64-QAM	1	0	17.69	17.53	17.68	19.20	2
		1	25	17.69	17.63	17.63	19.20	2
		1	49	17.52	17.68	17.63	19.20	2
		25	0	16.58	16.54	16.60	18.20	3
		25	12	16.59	16.59	16.63	18.20	3
		25	25	16.51	16.62	16.56	18.20	3
		50	0	16.65	16.60	16.53	18.20	3
	256-QAM	1	0	16.64	16.55	16.69	18.20	3
		1	25	16.66	16.62	16.69	18.20	3
		1	49	16.59	16.50	16.70	18.20	3
		25	0	15.50	15.57	15.64	17.20	4
		25	12	15.56	15.56	15.50	17.20	4
		25	25	15.53	15.55	15.69	17.20	4
		50	0	15.69	15.57	15.51	17.20	4

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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)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	19.53	19.70	19.55	21.20	0
		1	12	19.69	19.61	19.69	21.20	0
		1	24	19.65	19.54	19.57	21.20	0
		12	0	18.57	18.51	18.64	20.20	1
		12	6	18.53	18.64	18.64	20.20	1
		12	13	18.60	18.65	18.54	20.20	1
		25	0	18.64	18.56	18.63	20.20	1
	16-QAM	1	0	18.58	18.70	18.67	20.20	1
		1	12	18.56	18.57	18.67	20.20	1
		1	24	18.55	18.63	18.59	20.20	1
		12	0	17.52	17.57	17.53	19.20	2
		12	6	17.68	17.66	17.67	19.20	2
		12	13	17.58	17.53	17.50	19.20	2
		25	0	17.55	17.63	17.59	19.20	2
	64-QAM	1	0	17.61	17.68	17.58	19.20	2
		1	12	17.60	17.62	17.57	19.20	2
		1	24	17.53	17.69	17.66	19.20	2
		12	0	16.54	16.64	16.59	18.20	3
		12	6	16.68	16.59	16.52	18.20	3
		12	13	16.55	16.56	16.56	18.20	3
		25	0	16.51	16.59	16.54	18.20	3
	256-QAM	1	0	16.69	16.63	16.61	18.20	3
		1	12	16.66	16.63	16.58	18.20	3
		1	24	16.63	16.51	16.61	18.20	3
		12	0	15.66	15.56	15.63	17.20	4
		12	6	15.58	15.61	15.63	17.20	4
		12	13	15.55	15.51	15.69	17.20	4
		25	0	15.60	15.56	15.58	17.20	4

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NR FDD BODY DSI 3

5G NR n7_15kHz								
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				502000	507000	512000		
20	Pi/2 BPSK	1	1	21.87	22.11	21.90	22.50	0.0
		1	53	21.73	21.68	21.81	22.50	0.0
		1	104	21.78	21.66	21.72	22.50	0.0
		50	0	21.33	21.27	21.19	22.00	0.5
		50	28	21.72	21.72	21.65	22.50	0.0
		50	56	21.31	21.26	21.29	22.00	0.5
		100	0	21.30	21.29	21.28	22.00	0.5
	QPSK	1	1	21.73	21.81	21.75	22.50	0.0
		1	53	21.71	21.79	21.70	22.50	0.0
		1	104	21.70	21.66	21.78	22.50	0.0
		50	0	20.70	20.71	20.69	21.50	1.0
		50	28	21.74	21.75	21.84	22.50	0.0
		50	56	20.70	20.80	20.70	21.50	1.0
		100	0	20.72	20.77	20.84	21.50	1.0
	16-QAM	1	1	20.72	20.77	20.81	21.50	1.0
	64QAM	1	1	19.32	19.18	19.17	20.00	2.5
256-QAM	1	1	17.35	17.15	17.19	18.00	4.5	

5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				501500	507000	512500		
15	Pi/2 BPSK	1	1	21.76	21.82	21.73	22.50	0.0

5G NR n7_15kHz								
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				501000	507000	513000		
10	Pi/2 BPSK	1	1	21.81	21.71	21.72	22.50	0.0

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5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				500500	507000	513500		
5	Pi/2 BPSK	1	1	21.81	21.70	21.77	22.50	0.0

NR FDD HEAD DSI 8

5G NR n7_15kHz								
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				502000	507000	512000		
20	Pi/2 BPSK	1	1	22.17	22.10	22.05	24.00	0.0
		1	53	22.01	22.01	22.03	24.00	0.0
		1	104	22.08	22.08	22.04	24.00	0.0
		50	0	21.57	21.58	21.57	23.50	0.5
		50	28	22.08	22.05	22.01	24.00	0.0
		50	56	21.53	21.59	21.51	23.50	0.5
		100	0	21.56	21.54	21.56	23.50	0.5
	QPSK	1	1	22.09	22.04	22.03	24.00	0.0
		1	53	22.10	22.07	22.03	24.00	0.0
		1	104	22.10	22.06	22.02	24.00	0.0
		50	0	21.08	21.02	21.03	23.00	1.0
		50	28	22.01	22.00	22.02	24.00	0.0
		50	56	21.03	21.04	21.05	23.00	1.0
		100	0	21.08	21.03	21.05	23.00	1.0
	16-QAM	1	1	21.04	21.04	21.00	23.00	1.0
	64QAM	1	1	19.55	19.55	19.51	21.50	2.5
	256-QAM	1	1	17.50	17.55	17.57	19.50	4.5

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5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				501500	507000	512500		
15	Pi/2 BPSK	1	1	22.01	22.07	22.01	24.00	0.0
5G NR n7_15kHz								
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				501000	507000	513000		
10	Pi/2 BPSK	1	1	22.08	22.06	22.02	24.00	0.0
5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				500500	507000	513500		
5	Pi/2 BPSK	1	1	22.09	22.06	22.01	24.00	0.0

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NR FDD HOTSPOT DSI 13

5G NR n7_15kHz								
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				502000	507000	512000		
20	Pi/2 BPSK	1	1	20.75	20.76	20.84	21.00	0.0
		1	53	20.59	20.67	20.69	21.00	0.0
		1	104	20.57	20.57	20.63	21.00	0.0
		50	0	20.18	20.11	20.18	20.50	0.5
		50	28	20.70	20.56	20.69	21.00	0.0
		50	56	20.15	20.24	20.24	20.50	0.5
		100	0	20.22	20.12	20.08	20.50	0.5
	QPSK	1	1	20.71	20.70	20.59	21.00	0.0
		1	53	20.68	20.66	20.71	21.00	0.0
		1	104	20.60	20.72	20.64	21.00	0.0
		50	0	19.68	19.59	19.60	20.00	1.0
		50	28	20.68	20.65	20.65	21.00	0.0
		50	56	19.59	19.66	19.63	20.00	1.0
	100	0	19.68	19.60	19.70	20.00	1.0	
	16-QAM	1	1	19.66	19.66	19.56	20.00	1.0
64QAM	1	1	18.09	18.16	18.18	18.50	2.5	
256-QAM	1	1	16.19	16.22	16.11	16.50	4.5	

5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				501500	507000	512500		
15	Pi/2 BPSK	1	1	20.69	20.61	20.56	21.00	0.0

5G NR n7_15kHz								
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				501000	507000	513000		
10	Pi/2 BPSK	1	1	20.59	20.69	20.67	21.00	0.0

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5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				500500	507000	513500		
5	Pi/2 BPSK	1	1	20.63	20.59	20.59	21.00	0.0

NR TDD BODY DSI 3

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	22.72	22.69	22.98	23.00	0.0
		1	53	22.69	22.80	22.75	23.00	0.0
		1	104	22.69	22.76	22.82	23.00	0.0
		50	0	22.22	22.26	22.33	22.50	0.5
		50	28	22.73	22.83	22.79	23.00	0.0
		50	56	22.25	22.29	22.23	22.50	0.5
		100	0	22.25	22.21	22.32	22.50	0.5
	QPSK	1	1	22.73	22.82	22.64	23.00	0.0
		1	53	22.65	22.82	22.71	23.00	0.0
		1	104	22.69	22.74	22.75	23.00	0.0
		50	0	21.81	21.77	21.68	22.00	1.0
		50	28	22.84	22.82	22.66	23.00	0.0
		50	56	21.65	21.74	21.70	22.00	1.0
		100	0	21.77	21.76	21.84	22.00	1.0
	16-QAM	1	1	21.80	21.77	21.74	22.00	1.0
	64QAM	1	1	20.27	20.32	20.15	20.50	2.5
	256-QAM	1	1	18.25	18.21	18.22	18.50	4.5

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5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	22.71	22.83	22.76	23.00	0.0
5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	22.65	22.76	22.77	23.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	23.33	23.08	23.10	25.00	0.0
		1	137	23.07	23.05	23.04	25.00	0.0
		1	271	23.09	23.05	23.07	25.00	0.0
		135	0	22.70	22.67	22.52	24.50	0.5
		135	69	23.18	23.01	23.07	25.00	0.0
		135	138	22.62	22.57	22.65	24.50	0.5
		270	0	22.58	22.57	22.70	24.50	0.5
	QPSK	1	1	23.18	23.02	23.05	25.00	0.0
		1	137	23.19	23.02	23.07	25.00	0.0
		1	271	23.11	23.07	23.08	25.00	0.0
		135	0	22.11	22.20	22.12	24.00	1.0
		135	69	23.10	23.01	23.00	25.00	0.0
		135	138	22.06	22.01	22.19	24.00	1.0
		270	0	22.11	22.03	22.09	24.00	1.0
16-QAM	1	1	22.08	22.02	22.02	24.00	1.0	
64QAM	1	1	20.56	20.53	20.52	22.50	2.5	
256-QAM	1	1	20.38	20.43	20.44	20.50	4.5	

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	23.05	23.06	23.00	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	23.20	23.07	23.03	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	23.13	23.06	23.05	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	23.13	23.02	23.05	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	23.15	23.02	23.03	25.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	23.20	23.01	23.04	25.00	0.0

NR TDD HEAD DSI 8

5G NR n38_30kHz									
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				516000	519000	522000			
20	Pi/2 BPSK	1	1	23.16	23.25	23.09	25.00	0.0	
		1	53	23.01	23.03	23.02	25.00	0.0	
		1	104	23.04	23.07	23.02	25.00	0.0	
		50	0	22.57	22.57	22.52	24.50	0.5	
		50	28	23.04	23.03	23.03	25.00	0.0	
		50	56	22.54	22.53	22.52	24.50	0.5	
	QPSK	100	0	22.50	22.57	22.59	24.50	0.5	
		1	1	23.02	23.01	23.07	25.00	0.0	
		1	53	23.06	23.06	23.00	25.00	0.0	
		1	104	23.04	23.02	23.03	25.00	0.0	
		50	0	22.03	22.10	22.07	24.00	1.0	
		50	28	23.03	23.08	23.07	25.00	0.0	
	16-QAM	50	56	22.08	22.02	22.03	24.00	1.0	
		100	0	22.06	22.06	22.03	24.00	1.0	
		16-QAM	1	1	22.02	22.04	22.07	24.00	1.0
		64QAM	1	1	20.53	20.54	20.56	22.50	2.5
		256-QAM	1	1	18.57	18.56	18.54	20.50	4.5

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5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	23.06	23.02	23.05	25.00	0.0
5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	23.04	23.08	23.02	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	23.33	23.08	23.10	25.00	0.0
		1	137	23.01	23.02	23.08	25.00	0.0
		1	271	23.01	23.05	23.06	25.00	0.0
		135	0	22.50	22.53	22.52	24.50	0.5
		135	69	23.01	23.02	23.09	25.00	0.0
		135	138	22.56	22.59	22.50	24.50	0.5
		270	0	22.59	22.52	22.52	24.50	0.5
	QPSK	1	1	23.07	23.05	23.03	25.00	0.0
		1	137	23.09	23.04	23.03	25.00	0.0
		1	271	23.10	23.01	23.02	25.00	0.0
		135	0	22.08	22.06	22.04	24.00	1.0
		135	69	23.05	23.04	23.06	25.00	0.0
		135	138	22.03	22.07	22.00	24.00	1.0
		270	0	22.07	22.01	22.02	24.00	1.0
16-QAM	1	1	22.08	22.08	22.06	24.00	1.0	
64QAM	1	1	20.53	20.55	20.52	22.50	2.5	
256-QAM	1	1	18.55	18.58	18.54	20.50	4.5	

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	23.28	23.04	23.15	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	23.26	23.11	23.08	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	23.20	23.04	23.04	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	23.18	23.01	23.01	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	23.28	23.02	23.08	25.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	23.17	23.00	23.02	25.00	0.0

NR TDD HOTSPOT DSI 13

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	22.85	22.89	22.98	23.00	0.0
		1	53	22.77	22.79	22.77	23.00	0.0
		1	104	22.83	22.85	22.72	23.00	0.0
		50	0	22.26	22.28	22.35	22.50	0.5
		50	28	22.73	22.67	22.66	23.00	0.0
		50	56	22.24	22.26	22.18	22.50	0.5
		100	0	22.19	22.17	22.33	22.50	0.5
	QPSK	1	1	22.84	22.84	22.83	23.00	0.0
		1	53	22.72	22.76	22.66	23.00	0.0
		1	104	22.72	22.79	22.68	23.00	0.0
		50	0	21.77	21.71	21.71	22.00	1.0
		50	28	22.78	22.73	22.67	23.00	0.0
		50	56	21.66	21.80	21.70	22.00	1.0
		100	0	21.77	21.78	21.83	22.00	1.0
	16-QAM	1	1	21.81	21.76	21.81	22.00	1.0
	64QAM	1	1	20.27	20.16	20.16	20.50	2.5
	256-QAM	1	1	18.18	18.20	18.31	18.50	4.5

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5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	22.83	22.78	22.71	23.00	0.0
5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	22.75	22.85	22.80	23.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	22.90	23.00	22.84	23.00	0.0
		1	137	22.83	22.83	22.80	23.00	0.0
		1	271	22.77	22.79	22.68	23.00	0.0
		135	0	22.34	22.23	22.22	22.50	0.5
		135	69	22.69	22.74	22.66	23.00	0.0
		135	138	22.35	22.29	22.33	22.50	0.5
		270	0	22.33	22.17	22.26	22.50	0.5
	QPSK	1	1	22.75	22.70	22.80	23.00	0.0
		1	137	22.71	22.82	22.82	23.00	0.0
		1	271	22.83	22.67	22.68	23.00	0.0
		135	0	21.74	21.82	21.83	22.00	1.0
		135	69	22.79	22.66	22.80	23.00	0.0
		135	138	21.78	21.71	21.82	22.00	1.0
		270	0	21.68	21.76	21.65	22.00	1.0
16-QAM	1	1	21.72	21.81	21.81	22.00	1.0	
64QAM	1	1	20.22	20.25	20.20	20.50	2.5	
256-QAM	1	1	18.26	18.26	18.27	18.50	4.5	

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	22.76	22.73	22.73	23.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	22.73	22.85	22.85	23.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	22.74	22.81	22.80	23.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	22.83	22.83	22.72	23.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	22.78	22.71	22.65	23.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	22.69	22.78	22.69	23.00	0.0

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TD LTE BODY DSI 3

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	23.22	23.15	23.04	24.70	0
		1	50	22.88	22.95	22.84	24.70	0
		1	99	22.93	23.02	22.99	24.70	0
		50	0	21.97	21.86	21.95	23.70	1
		50	25	22.00	21.94	21.97	23.70	1
		50	50	21.86	21.83	21.99	23.70	1
		100	0	22.03	22.00	21.91	23.70	1
	16-QAM	1	0	21.84	21.94	21.87	23.70	1
		1	50	21.92	21.96	21.84	23.70	1
		1	99	21.88	21.89	21.98	23.70	1
		50	0	21.02	20.89	20.84	22.70	2
		50	25	20.84	20.94	20.99	22.70	2
		50	50	21.03	20.89	20.90	22.70	2
		100	0	20.88	20.99	20.89	22.70	2
	64-QAM	1	0	20.99	21.03	20.89	22.70	2
		1	50	20.91	20.86	20.96	22.70	2
		1	99	20.88	20.96	20.89	22.70	2
		50	0	20.00	19.87	20.00	21.70	3
		50	25	20.00	19.87	19.93	21.70	3
		50	50	19.95	19.97	19.94	21.70	3
		100	0	19.99	19.92	19.84	21.70	3
	256-QAM	1	0	20.02	20.01	19.88	21.70	3
		1	50	19.96	19.86	19.94	21.70	3
		1	99	20.01	20.01	19.96	21.70	3
		50	0	19.01	18.96	18.89	20.70	4
		50	25	18.98	18.84	18.94	20.70	4
		50	50	18.88	18.87	18.85	20.70	4
		100	0	18.94	18.85	18.97	20.70	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.79	22.87	22.84	24.70	0
		1	36	22.80	22.86	22.73	24.70	0
		1	74	22.85	22.77	22.70	24.70	0
		36	0	21.83	21.74	21.75	23.70	1
		36	18	21.84	21.72	21.71	23.70	1
		36	37	21.76	21.81	21.81	23.70	1
		75	0	21.85	21.74	21.90	23.70	1
	16-QAM	1	0	21.83	21.73	21.75	23.70	1
		1	36	21.79	21.71	21.87	23.70	1
		1	74	21.77	21.70	21.73	23.70	1
		36	0	20.73	20.77	20.89	22.70	2
		36	18	20.89	20.82	20.85	22.70	2
		36	37	20.77	20.88	20.80	22.70	2
		75	0	20.88	20.74	20.79	22.70	2
	64-QAM	1	0	20.89	20.81	20.75	22.70	2
		1	36	20.90	20.86	20.70	22.70	2
		1	74	20.81	20.76	20.74	22.70	2
		36	0	19.81	19.86	19.81	21.70	3
		36	18	19.79	19.85	19.81	21.70	3
		36	37	19.76	19.81	19.78	21.70	3
		75	0	19.85	19.85	19.84	21.70	3
	256-QAM	1	0	19.71	19.71	19.86	21.70	3
		1	36	19.79	19.87	19.71	21.70	3
		1	74	19.89	19.78	19.81	21.70	3
		36	0	18.84	18.88	18.84	20.70	4
		36	18	18.73	18.79	18.82	20.70	4
		36	37	18.83	18.89	18.76	20.70	4
		75	0	18.71	18.88	18.74	20.70	4

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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	22.73	22.70	22.73	24.70	0
		1	25	22.90	22.89	22.79	24.70	0
		1	49	22.73	22.86	22.79	24.70	0
		25	0	21.73	21.72	21.71	23.70	1
		25	12	21.72	21.90	21.81	23.70	1
		25	25	21.90	21.71	21.71	23.70	1
		50	0	21.71	21.86	21.84	23.70	1
	16-QAM	1	0	21.88	21.90	21.81	23.70	1
		1	25	21.88	21.84	21.79	23.70	1
		1	49	21.76	21.75	21.73	23.70	1
		25	0	20.87	20.80	20.73	22.70	2
		25	12	20.84	20.80	20.78	22.70	2
		25	25	20.78	20.84	20.76	22.70	2
		50	0	20.76	20.80	20.72	22.70	2
	64-QAM	1	0	20.90	20.82	20.71	22.70	2
		1	25	20.75	20.74	20.85	22.70	2
		1	49	20.73	20.80	20.79	22.70	2
		25	0	19.78	19.90	19.85	21.70	3
		25	12	19.88	19.72	19.74	21.70	3
		25	25	19.84	19.89	19.78	21.70	3
		50	0	19.80	19.73	19.87	21.70	3
	256-QAM	1	0	19.74	19.84	19.73	21.70	3
		1	25	19.72	19.80	19.88	21.70	3
		1	49	19.88	19.72	19.76	21.70	3
		25	0	18.89	18.86	18.74	20.70	4
		25	12	18.90	18.87	18.76	20.70	4
		25	25	18.84	18.85	18.82	20.70	4
		50	0	18.81	18.89	18.74	20.70	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	22.87	22.74	22.89	24.70	0
		1	12	22.70	22.86	22.85	24.70	0
		1	24	22.79	22.82	22.86	24.70	0
		12	0	21.89	21.80	21.83	23.70	1
		12	6	21.79	21.75	21.80	23.70	1
		12	13	21.84	21.82	21.88	23.70	1
		25	0	21.83	21.75	21.72	23.70	1
	16-QAM	1	0	21.86	21.79	21.80	23.70	1
		1	12	21.80	21.80	21.76	23.70	1
		1	24	21.71	21.82	21.82	23.70	1
		12	0	20.89	20.82	20.87	22.70	2
		12	6	20.82	20.79	20.81	22.70	2
		12	13	20.79	20.89	20.76	22.70	2
		25	0	20.75	20.80	20.88	22.70	2
	64-QAM	1	0	20.87	20.86	20.72	22.70	2
		1	12	20.83	20.83	20.88	22.70	2
		1	24	20.72	20.70	20.80	22.70	2
		12	0	19.80	19.82	19.73	21.70	3
		12	6	19.81	19.77	19.89	21.70	3
		12	13	19.78	19.72	19.86	21.70	3
		25	0	19.87	19.73	19.81	21.70	3
	256-QAM	1	0	19.73	19.84	19.85	21.70	3
		1	12	19.84	19.86	19.73	21.70	3
		1	24	19.77	19.84	19.83	21.70	3
		12	0	18.80	18.73	18.81	20.70	4
		12	6	18.78	18.90	18.74	20.70	4
		12	13	18.83	18.87	18.72	20.70	4
		25	0	18.77	18.79	18.71	20.70	4

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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	23.13	23.25	23.05	23.01	23.21	24.70	0
		1	50	22.88	22.88	22.94	22.91	22.84	24.70	0
		1	99	22.92	22.90	22.86	22.85	22.92	24.70	0
		50	0	21.91	21.84	21.88	21.92	21.83	23.70	1
		50	25	21.91	21.99	21.83	21.83	21.88	23.70	1
		50	50	21.94	21.81	21.95	21.82	21.93	23.70	1
	16-QAM	100	0	21.86	21.85	21.86	22.00	21.92	23.70	1
		1	0	21.99	21.84	21.83	21.99	21.98	23.70	1
		1	50	21.94	21.94	21.81	21.87	21.85	23.70	1
		1	99	21.96	21.92	21.99	21.94	21.80	23.70	1
		50	0	20.91	20.97	20.91	20.99	20.87	22.70	2
		50	25	20.96	20.83	20.99	20.90	20.98	22.70	2
	64-QAM	50	50	20.87	20.80	20.89	20.94	20.88	22.70	2
		100	0	20.94	20.87	20.92	20.95	20.85	22.70	2
		1	0	20.95	20.97	20.82	20.81	20.84	22.70	2
		1	50	20.85	20.97	20.92	20.98	20.80	22.70	2
		1	99	20.81	20.93	20.96	20.86	20.97	22.70	2
		50	0	19.96	19.87	19.87	19.88	19.84	21.70	3
	256-QAM	50	25	19.81	19.98	19.81	20.00	19.87	21.70	3
		50	50	19.91	19.93	19.91	19.90	19.91	21.70	3
		100	0	19.93	19.99	19.80	19.97	19.98	21.70	3
		1	0	19.94	19.81	19.93	19.99	19.93	21.70	3
		1	50	19.93	19.99	19.83	19.86	19.90	21.70	3
		1	99	19.89	19.98	19.90	19.93	19.98	21.70	3
	50	0	19.00	18.89	18.84	18.89	18.95	20.70	4	
	50	25	18.82	18.87	18.92	19.00	18.81	20.70	4	
	50	50	19.00	18.95	18.89	18.96	18.97	20.70	4	
	100	0	18.85	18.88	18.81	18.98	18.99	20.70	4	

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	22.89	22.90	22.84	22.87	22.79	24.70	0
		1	36	22.75	22.75	22.82	22.77	22.74	24.70	0
		1	74	22.86	22.89	22.74	22.86	22.78	24.70	0
		36	0	21.85	21.79	21.74	21.77	21.73	23.70	1
		36	18	21.87	21.71	21.81	21.88	21.87	23.70	1
		36	37	21.88	21.73	21.85	21.89	21.85	23.70	1
		75	0	21.88	21.90	21.78	21.74	21.86	23.70	1
	16-QAM	1	0	21.77	21.89	21.77	21.75	21.88	23.70	1
		1	36	21.85	21.71	21.71	21.81	21.90	23.70	1
		1	74	21.73	21.81	21.82	21.86	21.88	23.70	1
		36	0	20.71	20.88	20.87	20.86	20.77	22.70	2
		36	18	20.84	20.73	20.89	20.86	20.87	22.70	2
		36	37	20.85	20.72	20.80	20.89	20.88	22.70	2
		75	0	20.83	20.78	20.90	20.74	20.73	22.70	2
	64-QAM	1	0	20.78	20.84	20.79	20.87	20.72	22.70	2
		1	36	20.86	20.77	20.82	20.73	20.90	22.70	2
		1	74	20.74	20.75	20.73	20.86	20.83	22.70	2
		36	0	19.76	19.80	19.90	19.76	19.81	21.70	3
		36	18	19.81	19.73	19.85	19.82	19.86	21.70	3
		36	37	19.71	19.77	19.88	19.82	19.78	21.70	3
		75	0	19.82	19.85	19.70	19.75	19.77	21.70	3
	256-QAM	1	0	19.77	19.86	19.87	19.74	19.75	21.70	3
		1	36	19.78	19.78	19.86	19.79	19.74	21.70	3
		1	74	19.78	19.86	19.89	19.79	19.72	21.70	3
		36	0	18.81	18.78	18.74	18.72	18.90	20.70	4
		36	18	18.88	18.72	18.85	18.81	18.86	20.70	4
		36	37	18.81	18.80	18.74	18.71	18.80	20.70	4
		75	0	18.77	18.78	18.88	18.76	18.85	20.70	4

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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	22.85	22.82	22.74	22.84	22.82	24.70	0
		1	25	22.70	22.85	22.74	22.78	22.84	24.70	0
		1	49	22.81	22.82	22.88	22.84	22.84	24.70	0
		25	0	21.82	21.84	21.88	21.87	21.85	23.70	1
		25	12	21.72	21.81	21.85	21.86	21.88	23.70	1
		25	25	21.81	21.88	21.71	21.80	21.90	23.70	1
	16-QAM	50	0	21.80	21.79	21.89	21.80	21.76	23.70	1
		1	0	21.81	21.82	21.81	21.83	21.86	23.70	1
		1	25	21.82	21.85	21.80	21.81	21.82	23.70	1
		1	49	21.87	21.72	21.74	21.75	21.78	23.70	1
		25	0	20.78	20.81	20.79	20.74	20.81	22.70	2
		25	12	20.82	20.85	20.90	20.89	20.73	22.70	2
	64-QAM	25	25	20.86	20.76	20.72	20.74	20.76	22.70	2
		50	0	20.73	20.76	20.70	20.82	20.85	22.70	2
		1	0	20.76	20.84	20.85	20.73	20.74	22.70	2
		1	25	20.70	20.84	20.78	20.88	20.78	22.70	2
		1	49	20.75	20.89	20.82	20.76	20.83	22.70	2
		25	0	19.80	19.71	19.83	19.73	19.86	21.70	3
	256-QAM	25	12	19.75	19.89	19.74	19.80	19.77	21.70	3
		25	25	19.74	19.78	19.74	19.88	19.90	21.70	3
		50	0	19.90	19.84	19.89	19.86	19.85	21.70	3
		1	0	19.82	19.71	19.81	19.88	19.79	21.70	3
		1	25	19.81	19.87	19.83	19.74	19.78	21.70	3
		1	49	19.78	19.82	19.89	19.88	19.71	21.70	3
		25	0	18.86	18.73	18.82	18.87	18.89	20.70	4
		25	12	18.73	18.82	18.87	18.83	18.84	20.70	4
		25	25	18.70	18.80	18.88	18.81	18.77	20.70	4
		50	0	18.70	18.85	18.85	18.85	18.72	20.70	4

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	22.90	22.78	22.71	22.90	22.72	24.70	0
		1	12	22.88	22.74	22.72	22.74	22.87	24.70	0
		1	24	22.85	22.85	22.88	22.71	22.88	24.70	0
		12	0	21.78	21.78	21.87	21.88	21.79	23.70	1
		12	6	21.78	21.88	21.85	21.88	21.80	23.70	1
		12	13	21.88	21.78	21.71	21.80	21.79	23.70	1
	16-QAM	25	0	21.83	21.77	21.87	21.82	21.72	23.70	1
		1	0	21.78	21.75	21.85	21.85	21.81	23.70	1
		1	12	21.79	21.78	21.71	21.73	21.79	23.70	1
		1	24	21.84	21.82	21.73	21.89	21.73	23.70	1
		12	0	20.78	20.78	20.84	20.84	20.75	22.70	2
		12	6	20.77	20.88	20.74	20.88	20.79	22.70	2
	64-QAM	12	13	20.81	20.85	20.76	20.73	20.70	22.70	2
		25	0	20.83	20.73	20.89	20.72	20.75	22.70	2
		1	0	20.71	20.81	20.77	20.78	20.83	22.70	2
		1	12	20.88	20.84	20.80	20.84	20.72	22.70	2
		1	24	20.76	20.70	20.80	20.83	20.76	22.70	2
		12	0	19.81	19.76	19.77	19.88	19.88	21.70	3
	256-QAM	12	6	19.75	19.71	19.72	19.77	19.72	21.70	3
		12	13	19.90	19.84	19.82	19.87	19.76	21.70	3
		25	0	19.81	19.84	19.72	19.87	19.83	21.70	3
		1	0	19.76	19.71	19.85	19.81	19.83	21.70	3
		1	12	19.85	19.78	19.86	19.74	19.88	21.70	3
		1	24	19.73	19.79	19.76	19.89	19.70	21.70	3
		12	0	18.79	18.88	18.83	18.70	18.72	20.70	4
		12	6	18.85	18.81	18.82	18.80	18.90	20.70	4
		12	13	18.71	18.77	18.86	18.85	18.75	20.70	4
		25	0	18.84	18.84	18.82	18.84	18.70	20.70	4

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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)			2580	2595	2610			
Channel			37850	38000	38150			
20	QPSK	1	0	23.22	23.15	23.04	24.70	0
		1	50	22.71	22.75	22.73	24.70	0
		1	99	22.73	22.88	22.82	24.70	0
		50	0	21.82	21.89	21.87	23.70	1
		50	25	21.84	21.71	21.84	23.70	1
		50	50	21.90	21.87	21.80	23.70	1
		100	0	21.87	21.85	21.88	23.70	1
	16-QAM	1	0	21.75	21.89	21.85	23.70	1
		1	50	21.76	21.81	21.83	23.70	1
		1	99	21.78	21.79	21.80	23.70	1
		50	0	20.82	20.77	20.81	22.70	2
		50	25	20.87	20.83	20.85	22.70	2
		50	50	20.87	20.82	20.87	22.70	2
		100	0	20.87	20.84	20.85	22.70	2
	64-QAM	1	0	20.89	20.79	20.85	22.70	2
		1	50	20.79	20.72	20.81	22.70	2
		1	99	20.83	20.72	20.79	22.70	2
		50	0	19.81	19.89	19.82	21.70	3
		50	25	19.84	19.83	19.76	21.70	3
		50	50	19.88	19.77	19.83	21.70	3
		100	0	19.89	19.79	19.85	21.70	3
	256-QAM	1	0	19.75	19.85	19.87	21.70	3
		1	50	19.75	19.79	19.77	21.70	3
		1	99	19.74	19.79	19.88	21.70	3
		50	0	18.76	18.73	18.78	20.70	4
		50	25	18.70	18.79	18.77	20.70	4
		50	50	18.73	18.77	18.81	20.70	4
		100	0	18.89	18.78	18.79	20.70	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.77	22.77	22.78	24.70	0
		1	36	22.81	22.70	22.89	24.70	0
		1	74	22.72	22.74	22.77	24.70	0
		36	0	21.75	21.79	21.89	23.70	1
		36	18	21.89	21.82	21.88	23.70	1
		36	37	21.82	21.83	21.70	23.70	1
		75	0	21.75	21.71	21.72	23.70	1
	16-QAM	1	0	21.77	21.76	21.84	23.70	1
		1	36	21.85	21.81	21.71	23.70	1
		1	74	21.85	21.89	21.79	23.70	1
		36	0	20.71	20.73	20.70	22.70	2
		36	18	20.76	20.72	20.74	22.70	2
		36	37	20.80	20.76	20.84	22.70	2
		75	0	20.79	20.89	20.78	22.70	2
	64-QAM	1	0	20.85	20.72	20.84	22.70	2
		1	36	20.87	20.73	20.86	22.70	2
		1	74	20.73	20.78	20.89	22.70	2
		36	0	19.71	19.81	19.85	21.70	3
		36	18	19.78	19.74	19.71	21.70	3
		36	37	19.80	19.81	19.82	21.70	3
		75	0	19.90	19.88	19.82	21.70	3
	256-QAM	1	0	19.89	19.79	19.81	21.70	3
		1	36	19.71	19.78	19.90	21.70	3
		1	74	19.89	19.75	19.73	21.70	3
		36	0	18.80	18.71	18.71	20.70	4
		36	18	18.89	18.88	18.80	20.70	4
		36	37	18.70	18.76	18.85	20.70	4
		75	0	18.79	18.79	18.90	20.70	4

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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	22.73	22.80	22.75	24.70	0
		1	25	22.70	22.90	22.74	24.70	0
		1	49	22.77	22.72	22.71	24.70	0
		25	0	21.75	21.84	21.86	23.70	1
		25	12	21.79	21.75	21.88	23.70	1
		25	25	21.88	21.76	21.80	23.70	1
		50	0	21.86	21.74	21.88	23.70	1
	16-QAM	1	0	21.89	21.72	21.88	23.70	1
		1	25	21.78	21.77	21.78	23.70	1
		1	49	21.86	21.70	21.85	23.70	1
		25	0	20.73	20.86	20.73	22.70	2
		25	12	20.88	20.85	20.80	22.70	2
		25	25	20.78	20.78	20.81	22.70	2
		50	0	20.83	20.71	20.87	22.70	2
	64-QAM	1	0	20.83	20.86	20.87	22.70	2
		1	25	20.76	20.81	20.71	22.70	2
		1	49	20.79	20.70	20.88	22.70	2
		25	0	19.79	19.72	19.81	21.70	3
		25	12	19.88	19.75	19.88	21.70	3
		25	25	19.72	19.76	19.83	21.70	3
		50	0	19.78	19.80	19.75	21.70	3
	256-QAM	1	0	19.85	19.79	19.75	21.70	3
		1	25	19.71	19.75	19.83	21.70	3
		1	49	19.84	19.87	19.85	21.70	3
		25	0	18.81	18.70	18.84	20.70	4
		25	12	18.79	18.82	18.75	20.70	4
		25	25	18.77	18.83	18.73	20.70	4
		50	0	18.86	18.71	18.79	20.70	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	22.78	22.87	22.79	24.70	0
		1	12	22.89	22.85	22.87	24.70	0
		1	24	22.87	22.77	22.72	24.70	0
		12	0	21.80	21.79	21.79	23.70	1
		12	6	21.84	21.73	21.88	23.70	1
		12	13	21.76	21.74	21.79	23.70	1
		25	0	21.90	21.73	21.88	23.70	1
	16-QAM	1	0	21.82	21.80	21.74	23.70	1
		1	12	21.90	21.84	21.71	23.70	1
		1	24	21.86	21.88	21.85	23.70	1
		12	0	20.83	20.88	20.84	22.70	2
		12	6	20.85	20.87	20.85	22.70	2
		12	13	20.71	20.85	20.75	22.70	2
		25	0	20.75	20.85	20.88	22.70	2
	64-QAM	1	0	20.71	20.78	20.81	22.70	2
		1	12	20.89	20.76	20.77	22.70	2
		1	24	20.79	20.76	20.78	22.70	2
		12	0	19.76	19.90	19.86	21.70	3
		12	6	19.70	19.83	19.76	21.70	3
		12	13	19.76	19.76	19.84	21.70	3
		25	0	19.80	19.71	19.73	21.70	3
	256-QAM	1	0	19.88	19.88	19.89	21.70	3
		1	12	19.72	19.85	19.78	21.70	3
		1	24	19.71	19.78	19.82	21.70	3
		12	0	18.82	18.85	18.80	20.70	4
		12	6	18.79	18.75	18.89	20.70	4
		12	13	18.83	18.82	18.73	20.70	4
		25	0	18.88	18.73	18.89	20.70	4

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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	23.13	23.25	23.05	23.01	23.21	24.70	0
		1	50	22.76	22.75	22.78	22.84	22.83	24.70	0
		1	99	22.72	22.75	22.72	22.79	22.76	24.70	0
		50	0	21.76	21.76	21.82	21.71	21.77	23.70	1
		50	25	21.74	21.80	21.80	21.84	21.74	23.70	1
		50	50	21.85	21.72	21.77	21.84	21.72	23.70	1
	16-QAM	100	0	21.89	21.86	21.88	21.76	21.85	23.70	1
		1	0	21.82	21.75	21.88	21.89	21.85	23.70	1
		1	50	21.87	21.78	21.75	21.77	21.71	23.70	1
		1	99	21.86	21.77	21.76	21.79	21.82	23.70	1
		50	0	20.84	20.88	20.86	20.84	20.80	22.70	2
		50	25	20.76	20.88	20.80	20.84	20.84	22.70	2
	64-QAM	50	50	20.76	20.75	20.82	20.75	20.87	22.70	2
		100	0	20.71	20.74	20.70	20.82	20.81	22.70	2
		1	0	20.86	20.83	20.83	20.86	20.71	22.70	2
		1	50	20.76	20.83	20.74	20.83	20.88	22.70	2
		1	99	20.76	20.73	20.82	20.74	20.75	22.70	2
		50	0	19.72	19.73	19.80	19.84	19.77	21.70	3
	256-QAM	50	25	19.76	19.89	19.88	19.73	19.77	21.70	3
		50	50	19.76	19.74	19.80	19.89	19.77	21.70	3
		100	0	19.83	19.85	19.83	19.83	19.79	21.70	3
		1	0	19.82	19.81	19.82	19.89	19.71	21.70	3
		1	50	19.83	19.75	19.79	19.80	19.79	21.70	3
		1	99	19.83	19.71	19.87	19.88	19.72	21.70	3
		50	0	18.89	18.71	18.81	18.79	18.86	20.70	4
		50	25	18.89	18.78	18.85	18.70	18.79	20.70	4
		50	50	18.80	18.87	18.73	18.89	18.88	20.70	4
		100	0	18.71	18.83	18.71	18.85	18.87	20.70	4

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	22.73	22.78	22.83	22.85	22.81	24.70	0
		1	36	22.86	22.90	22.71	22.84	22.86	24.70	0
		1	74	22.87	22.83	22.88	22.86	22.72	24.70	0
		36	0	21.84	21.72	21.78	21.86	21.71	23.70	1
		36	18	21.78	21.83	21.70	21.78	21.81	23.70	1
		36	37	21.88	21.90	21.82	21.78	21.78	23.70	1
		75	0	21.77	21.73	21.73	21.77	21.89	23.70	1
	16-QAM	1	0	21.73	21.81	21.88	21.71	21.79	23.70	1
		1	36	21.83	21.74	21.76	21.80	21.79	23.70	1
		1	74	21.81	21.79	21.82	21.76	21.72	23.70	1
		36	0	20.89	20.88	20.77	20.73	20.71	22.70	2
		36	18	20.77	20.88	20.90	20.85	20.81	22.70	2
		36	37	20.74	20.70	20.85	20.72	20.71	22.70	2
		75	0	20.84	20.88	20.89	20.76	20.83	22.70	2
	64-QAM	1	0	20.78	20.73	20.71	20.75	20.87	22.70	2
		1	36	20.79	20.88	20.85	20.90	20.85	22.70	2
		1	74	20.71	20.81	20.81	20.88	20.87	22.70	2
		36	0	19.84	19.89	19.71	19.87	19.76	21.70	3
		36	18	19.83	19.76	19.85	19.75	19.81	21.70	3
		36	37	19.71	19.85	19.72	19.90	19.73	21.70	3
		75	0	19.84	19.88	19.84	19.88	19.71	21.70	3
	256-QAM	1	0	19.77	19.77	19.84	19.83	19.74	21.70	3
		1	36	19.73	19.80	19.84	19.75	19.75	21.70	3
		1	74	19.89	19.75	19.86	19.71	19.88	21.70	3
		36	0	18.78	18.89	18.90	18.71	18.72	20.70	4
		36	18	18.70	18.77	18.87	18.76	18.76	20.70	4
		36	37	18.80	18.80	18.70	18.71	18.76	20.70	4
		75	0	18.74	18.80	18.78	18.84	18.72	20.70	4

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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	22.79	22.84	22.76	22.89	22.73	24.70	0
		1	25	22.86	22.82	22.78	22.80	22.86	24.70	0
		1	49	22.73	22.76	22.89	22.82	22.80	24.70	0
		25	0	21.88	21.84	21.85	21.71	21.89	23.70	1
		25	12	21.72	21.86	21.80	21.89	21.79	23.70	1
		25	25	21.83	21.86	21.87	21.72	21.73	23.70	1
	16-QAM	50	0	21.77	21.80	21.88	21.72	21.80	23.70	1
		1	0	21.83	21.70	21.89	21.80	21.74	23.70	1
		1	25	21.79	21.89	21.86	21.78	21.84	23.70	1
		1	49	21.83	21.81	21.85	21.87	21.71	23.70	1
		25	0	20.81	20.75	20.85	20.79	20.80	22.70	2
		25	12	20.81	20.84	20.88	20.71	20.75	22.70	2
	64-QAM	25	25	20.87	20.88	20.83	20.72	20.76	22.70	2
		50	0	20.76	20.86	20.80	20.85	20.87	22.70	2
		1	0	20.84	20.88	20.79	20.85	20.80	22.70	2
		1	25	20.90	20.76	20.86	20.86	20.77	22.70	2
		1	49	20.82	20.79	20.70	20.73	20.83	22.70	2
		25	0	19.87	19.72	19.75	19.88	19.86	21.70	3
	256-QAM	25	12	19.82	19.84	19.76	19.86	19.89	21.70	3
		25	25	19.87	19.83	19.82	19.75	19.77	21.70	3
		50	0	19.73	19.72	19.87	19.80	19.90	21.70	3
		1	0	19.79	19.72	19.90	19.74	19.77	21.70	3
		1	25	19.85	19.89	19.87	19.85	19.72	21.70	3
		1	49	19.84	19.71	19.72	19.72	19.82	21.70	3
	25	0	18.75	18.71	18.80	18.84	18.82	20.70	4	
	25	12	18.88	18.87	18.71	18.76	18.74	20.70	4	
	25	25	18.83	18.74	18.90	18.90	18.72	20.70	4	
	50	0	18.75	18.78	18.75	18.89	18.75	20.70	4	

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	22.72	22.89	22.77	22.79	22.83	24.70	0
		1	12	22.80	22.89	22.71	22.76	22.70	24.70	0
		1	24	22.73	22.82	22.83	22.80	22.74	24.70	0
		12	0	21.73	21.80	21.76	21.71	21.85	23.70	1
		12	6	21.78	21.80	21.84	21.80	21.75	23.70	1
		12	13	21.88	21.83	21.82	21.88	21.80	23.70	1
		25	0	21.84	21.86	21.83	21.85	21.81	23.70	1
	16-QAM	1	0	21.90	21.78	21.87	21.90	21.73	23.70	1
		1	12	21.74	21.83	21.84	21.82	21.88	23.70	1
		1	24	21.77	21.70	21.90	21.76	21.83	23.70	1
		12	0	20.74	20.78	20.78	20.86	20.82	22.70	2
		12	6	20.80	20.86	20.74	20.86	20.81	22.70	2
		12	13	20.83	20.87	20.90	20.78	20.73	22.70	2
		25	0	20.87	20.75	20.89	20.84	20.80	22.70	2
	64-QAM	1	0	20.70	20.76	20.72	20.73	20.73	22.70	2
		1	12	20.85	20.75	20.84	20.87	20.82	22.70	2
		1	24	20.89	20.75	20.77	20.78	20.87	22.70	2
		12	0	19.89	19.90	19.82	19.80	19.71	21.70	3
		12	6	19.79	19.89	19.75	19.83	19.71	21.70	3
		12	13	19.85	19.83	19.71	19.77	19.86	21.70	3
		25	0	19.87	19.81	19.76	19.81	19.71	21.70	3
	256-QAM	1	0	19.86	19.86	19.70	19.82	19.89	21.70	3
		1	12	19.78	19.70	19.81	19.72	19.86	21.70	3
		1	24	19.70	19.72	19.74	19.76	19.81	21.70	3
		12	0	18.85	18.81	18.70	18.75	18.72	20.70	4
		12	6	18.81	18.78	18.72	18.71	18.74	20.70	4
		12	13	18.82	18.72	18.77	18.86	18.88	20.70	4
		25	0	18.81	18.82	18.83	18.85	18.86	20.70	4

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TD LTE HOTSPOT DSI 13

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	23.22	23.15	23.04	24.70	0
		1	50	22.94	22.94	22.99	24.70	0
		1	99	22.95	22.96	22.83	24.70	0
		50	0	21.94	21.94	21.92	23.70	1
		50	25	21.99	21.85	21.96	23.70	1
		50	50	21.99	21.86	21.96	23.70	1
		100	0	21.96	21.90	21.94	23.70	1
	16-QAM	1	0	22.00	21.92	21.90	23.70	1
		1	50	21.98	21.92	21.83	23.70	1
		1	99	21.84	22.01	21.88	23.70	1
		50	0	21.00	21.01	20.93	22.70	2
		50	25	21.01	21.02	20.97	22.70	2
		50	50	20.91	20.99	20.90	22.70	2
		100	0	21.00	20.89	20.98	22.70	2
	64-QAM	1	0	20.97	20.96	21.00	22.70	2
		1	50	20.93	20.95	20.92	22.70	2
		1	99	20.94	20.92	20.87	22.70	2
		50	0	20.00	19.86	19.89	21.70	3
		50	25	19.90	19.87	20.00	21.70	3
		50	50	19.97	19.86	19.99	21.70	3
		100	0	19.96	20.01	19.95	21.70	3
	256-QAM	1	0	20.02	19.85	20.02	21.70	3
		1	50	19.99	19.84	19.95	21.70	3
		1	99	20.01	19.96	19.90	21.70	3
		50	0	18.92	19.01	19.00	20.70	4
		50	25	18.88	18.91	18.92	20.70	4
		50	50	19.02	18.86	18.94	20.70	4
		100	0	18.85	18.85	18.87	20.70	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.84	22.71	22.80	24.70	0
		1	36	22.71	22.83	22.74	24.70	0
		1	74	22.75	22.74	22.72	24.70	0
		36	0	21.75	21.71	21.77	23.70	1
		36	18	21.80	21.80	21.72	23.70	1
		36	37	21.72	21.74	21.80	23.70	1
		75	0	21.87	21.74	21.70	23.70	1
	16-QAM	1	0	21.71	21.79	21.71	23.70	1
		1	36	21.72	21.78	21.72	23.70	1
		1	74	21.86	21.76	21.87	23.70	1
		36	0	20.73	20.79	20.79	22.70	2
		36	18	20.74	20.74	20.73	22.70	2
		36	37	20.79	20.75	20.87	22.70	2
		75	0	20.70	20.89	20.78	22.70	2
	64-QAM	1	0	20.82	20.73	20.72	22.70	2
		1	36	20.79	20.88	20.74	22.70	2
		1	74	20.74	20.75	20.75	22.70	2
		36	0	19.83	19.87	19.77	21.70	3
		36	18	19.72	19.70	19.85	21.70	3
		36	37	19.79	19.73	19.90	21.70	3
		75	0	19.78	19.71	19.87	21.70	3
	256-QAM	1	0	19.80	19.85	19.80	21.70	3
		1	36	19.88	19.80	19.78	21.70	3
		1	74	19.86	19.79	19.78	21.70	3
		36	0	18.72	18.75	18.78	20.70	4
		36	18	18.84	18.88	18.70	20.70	4
		36	37	18.82	18.84	18.90	20.70	4
		75	0	18.73	18.82	18.89	20.70	4

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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	22.89	22.83	22.76	24.70	0
		1	25	22.86	22.77	22.86	24.70	0
		1	49	22.85	22.86	22.85	24.70	0
		25	0	21.87	21.78	21.89	23.70	1
		25	12	21.85	21.86	21.76	23.70	1
		25	25	21.77	21.82	21.86	23.70	1
		50	0	21.89	21.83	21.73	23.70	1
	16-QAM	1	0	21.76	21.88	21.80	23.70	1
		1	25	21.83	21.75	21.84	23.70	1
		1	49	21.83	21.88	21.85	23.70	1
		25	0	20.85	20.80	20.88	22.70	2
		25	12	20.88	20.87	20.77	22.70	2
		25	25	20.80	20.74	20.72	22.70	2
		50	0	20.84	20.82	20.75	22.70	2
	64-QAM	1	0	20.71	20.73	20.72	22.70	2
		1	25	20.83	20.84	20.82	22.70	2
		1	49	20.89	20.76	20.71	22.70	2
		25	0	19.72	19.83	19.71	21.70	3
		25	12	19.81	19.77	19.86	21.70	3
		25	25	19.83	19.80	19.84	21.70	3
		50	0	19.88	19.76	19.88	21.70	3
	256-QAM	1	0	19.80	19.78	19.70	21.70	3
		1	25	19.72	19.82	19.79	21.70	3
		1	49	19.84	19.80	19.76	21.70	3
		25	0	18.70	18.81	18.78	20.70	4
		25	12	18.80	18.71	18.73	20.70	4
		25	25	18.75	18.85	18.89	20.70	4
		50	0	18.73	18.79	18.71	20.70	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	22.81	22.85	22.73	24.70	0
		1	12	22.76	22.77	22.72	24.70	0
		1	24	22.83	22.75	22.87	24.70	0
		12	0	21.71	21.85	21.78	23.70	1
		12	6	21.71	21.86	21.84	23.70	1
		12	13	21.80	21.81	21.81	23.70	1
		25	0	21.85	21.75	21.72	23.70	1
	16-QAM	1	0	21.73	21.79	21.84	23.70	1
		1	12	21.70	21.84	21.76	23.70	1
		1	24	21.80	21.84	21.84	23.70	1
		12	0	20.87	20.86	20.75	22.70	2
		12	6	20.77	20.86	20.89	22.70	2
		12	13	20.73	20.90	20.83	22.70	2
		25	0	20.74	20.73	20.78	22.70	2
	64-QAM	1	0	20.86	20.72	20.82	22.70	2
		1	12	20.79	20.81	20.72	22.70	2
		1	24	20.88	20.78	20.73	22.70	2
		12	0	19.84	19.78	19.88	21.70	3
		12	6	19.75	19.76	19.76	21.70	3
		12	13	19.71	19.71	19.86	21.70	3
		25	0	19.79	19.84	19.89	21.70	3
	256-QAM	1	0	19.77	19.78	19.84	21.70	3
		1	12	19.71	19.77	19.70	21.70	3
		1	24	19.70	19.89	19.74	21.70	3
		12	0	18.74	18.72	18.77	20.70	4
		12	6	18.81	18.88	18.89	20.70	4
		12	13	18.77	18.82	18.81	20.70	4
		25	0	18.86	18.79	18.76	20.70	4

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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	23.13	23.25	23.05	23.01	23.21	24.70	0
		1	50	22.98	22.98	22.82	22.82	22.91	24.70	0
		1	99	22.85	22.98	22.96	22.81	22.95	24.70	0
		50	0	21.94	21.98	21.98	21.81	21.83	23.70	1
		50	25	21.99	21.88	21.93	21.97	21.83	23.70	1
		50	50	21.89	21.90	21.81	21.92	21.85	23.70	1
		100	0	21.85	21.87	21.95	21.97	21.95	23.70	1
	16-QAM	1	0	21.87	21.90	21.97	22.00	21.82	23.70	1
		1	50	21.88	21.89	21.95	21.96	21.88	23.70	1
		1	99	21.89	21.89	21.85	21.91	21.81	23.70	1
		50	0	20.91	20.89	20.82	20.88	20.92	22.70	2
		50	25	20.83	20.83	21.00	20.85	21.00	22.70	2
		50	50	20.90	20.98	20.81	20.88	20.82	22.70	2
		100	0	20.85	20.86	20.86	20.98	20.82	22.70	2
	64-QAM	1	0	20.91	20.88	20.85	20.90	20.95	22.70	2
		1	50	20.93	20.92	20.81	20.85	20.91	22.70	2
		1	99	20.97	20.96	20.83	20.92	20.97	22.70	2
		50	0	19.89	19.91	19.88	19.92	19.84	21.70	3
		50	25	19.95	19.95	20.00	19.86	19.98	21.70	3
		50	50	19.87	19.91	19.96	19.89	19.86	21.70	3
		100	0	19.94	19.87	19.82	19.88	19.82	21.70	3
	256-QAM	1	0	19.82	19.94	19.99	19.88	19.91	21.70	3
		1	50	19.91	19.85	19.96	19.86	19.87	21.70	3
		1	99	19.97	19.88	19.91	19.98	19.99	21.70	3
		50	0	18.89	18.86	18.92	19.00	18.85	20.70	4
		50	25	18.86	18.95	18.93	18.82	18.97	20.70	4
		50	50	18.85	18.93	18.94	18.93	18.95	20.70	4
		100	0	18.90	18.92	18.97	18.97	18.86	20.70	4

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	22.98	22.86	22.86	22.94	22.82	24.70	0
		1	36	22.90	22.88	22.97	23.00	22.93	24.70	0
		1	74	22.87	22.86	22.86	22.96	22.91	24.70	0
		36	0	21.90	21.86	21.91	21.82	21.98	23.70	1
		36	18	21.92	21.89	21.95	21.88	21.95	23.70	1
		36	37	21.97	21.97	21.86	21.98	21.91	23.70	1
		75	0	21.91	21.80	21.94	21.93	21.99	23.70	1
	16-QAM	1	0	21.88	21.93	21.84	21.85	21.92	23.70	1
		1	36	21.94	21.96	21.95	21.84	21.83	23.70	1
		1	74	21.89	21.90	21.98	21.88	21.85	23.70	1
		36	0	20.87	20.92	20.94	20.91	20.84	22.70	2
		36	18	20.91	21.00	20.99	20.80	20.86	22.70	2
		36	37	20.80	20.81	21.00	20.88	20.91	22.70	2
		75	0	20.94	20.88	20.92	20.98	20.96	22.70	2
	64-QAM	1	0	20.84	20.90	20.92	20.88	20.92	22.70	2
		1	36	20.84	20.90	20.95	20.90	20.99	22.70	2
		1	74	20.86	20.87	20.93	21.00	20.88	22.70	2
		36	0	19.98	19.86	19.98	19.94	19.80	21.70	3
		36	18	19.88	19.86	19.99	19.89	19.87	21.70	3
		36	37	19.91	19.94	19.91	19.96	19.96	21.70	3
		75	0	19.98	19.81	19.95	19.91	19.99	21.70	3
	256-QAM	1	0	19.93	19.96	19.81	19.86	19.93	21.70	3
		1	36	19.85	19.88	19.93	19.85	19.93	21.70	3
		1	74	19.83	19.84	19.91	19.88	19.98	21.70	3
		36	0	18.95	18.94	18.94	18.88	18.83	20.70	4
		36	18	18.88	18.94	18.99	18.99	18.81	20.70	4
		36	37	18.80	18.84	18.93	18.95	18.99	20.70	4
		75	0	18.81	18.83	18.93	18.96	18.91	20.70	4

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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	22.98	22.98	22.95	22.92	22.92	24.70	0
		1	25	22.97	22.96	22.86	22.90	22.94	24.70	0
		1	49	22.96	22.96	22.97	22.82	22.92	24.70	0
		25	0	21.98	21.87	21.88	21.83	21.80	23.70	1
		25	12	21.95	21.96	21.93	21.80	21.82	23.70	1
		25	25	21.99	21.82	21.94	21.94	21.85	23.70	1
	16-QAM	50	0	21.88	21.87	21.89	21.85	21.90	23.70	1
		1	0	21.84	21.99	22.00	21.91	21.91	23.70	1
		1	25	21.86	21.96	21.84	21.87	21.85	23.70	1
		1	49	21.84	21.86	21.95	21.85	21.84	23.70	1
		25	0	20.96	20.90	20.85	20.99	20.82	22.70	2
		25	12	20.94	20.93	20.86	20.99	20.99	22.70	2
	64-QAM	25	25	20.82	20.83	20.84	21.00	21.00	22.70	2
		50	0	20.89	20.92	20.94	20.89	20.95	22.70	2
		1	0	20.89	21.00	20.87	20.91	20.91	22.70	2
		1	25	20.92	20.98	20.91	20.83	20.82	22.70	2
		1	49	20.86	20.93	20.93	20.94	20.95	22.70	2
		25	0	19.93	19.95	19.83	19.91	19.87	21.70	3
	256-QAM	25	12	19.96	19.93	19.92	19.92	19.92	21.70	3
		25	25	19.97	19.99	19.81	19.87	19.81	21.70	3
		50	0	19.87	19.89	19.91	19.96	19.97	21.70	3
		1	0	19.90	19.87	19.95	19.93	20.00	21.70	3
		1	25	19.98	19.97	19.93	19.92	19.88	21.70	3
		1	49	19.90	19.81	19.87	19.87	19.84	21.70	3
		25	0	18.85	18.97	18.92	18.90	18.84	20.70	4
		25	12	18.86	18.87	18.84	18.85	18.86	20.70	4
		25	25	18.96	18.94	18.96	18.88	18.81	20.70	4
		50	0	18.90	18.89	18.92	18.82	18.95	20.70	4

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	22.94	22.86	22.91	22.87	22.94	24.70	0
		1	12	22.89	22.85	22.89	22.82	23.00	24.70	0
		1	24	22.96	22.80	22.95	22.81	22.88	24.70	0
		12	0	21.96	21.82	21.81	21.81	22.00	23.70	1
		12	6	21.91	21.90	21.83	21.92	21.86	23.70	1
		12	13	21.89	21.98	21.95	21.84	21.87	23.70	1
	16-QAM	25	0	21.86	21.87	21.82	21.99	21.92	23.70	1
		1	0	21.95	21.88	21.85	21.85	21.99	23.70	1
		1	12	21.94	21.96	21.80	21.91	21.97	23.70	1
		1	24	21.94	21.80	21.82	21.80	21.88	23.70	1
		12	0	20.91	20.81	21.00	20.88	20.87	22.70	2
		12	6	20.92	20.99	20.80	20.88	20.92	22.70	2
	64-QAM	12	13	20.85	20.88	20.85	20.97	20.94	22.70	2
		25	0	20.84	21.00	20.97	20.90	20.90	22.70	2
		1	0	20.94	20.86	20.88	20.90	20.91	22.70	2
		1	12	20.83	20.85	20.93	20.81	20.84	22.70	2
		1	24	20.95	20.96	20.98	20.92	20.85	22.70	2
		12	0	19.99	19.86	19.96	19.89	19.82	21.70	3
	256-QAM	12	6	19.91	19.93	19.91	19.80	19.89	21.70	3
		12	13	19.82	19.93	19.95	19.94	19.89	21.70	3
		25	0	19.82	19.98	19.90	19.92	19.90	21.70	3
		1	0	19.90	19.98	20.00	19.91	19.97	21.70	3
		1	12	19.94	19.92	19.81	19.93	20.00	21.70	3
		1	24	19.82	19.80	19.95	19.82	19.81	21.70	3
		12	0	18.86	18.95	18.96	18.84	18.92	20.70	4
		12	6	18.89	18.82	18.98	18.95	18.88	20.70	4
		12	13	18.84	18.98	18.90	18.95	18.81	20.70	4
		25	0	18.98	18.97	18.97	18.88	18.90	20.70	4

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1.3.2 Ant 1

2G

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power		Source-based time average power	
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GSM 850 (GMSK)	824.2	128	33.8	32.11	23.08		
	836.6	190	33.8	32.34	23.31		
	848.8	251	33.8	32.27	23.24		
The division factor compared to the number of TX time slot							
Division factor				1 TX time slot			
				-9.03			
Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.8	30.8	29	27.5	
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12	
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850 (GMSK)	824.2	128	32.04	29.60	27.29	25.53	
	836.6	190	32.33	29.65	28.34	26.55	
	848.8	251	32.12	29.63	28.14	26.12	
Source-based time average power							
GPRS 850 (GMSK)	824.2	128	23.01	23.58	23.03	22.52	
	836.6	190	23.30	23.63	24.08	23.54	
	848.8	251	23.09	23.61	23.88	23.11	
The division factor compared to the number of TX time slot							
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot	
			-9.03	-6.02	-4.26	-3.01	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			28.2	25.5	23.7	22.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (8PSK)	824.2	128	27.77	25.10	23.31	22.11
	836.6	190	27.73	25.12	23.31	22.07
	848.8	251	27.81	25.09	23.26	22.09
Source-based time average power						
EDGE 850 (8PSK)	824.2	128	18.74	19.08	19.05	19.10
	836.6	190	18.70	19.10	19.05	19.06
	848.8	251	18.78	19.07	19.00	19.08
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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3G

Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		25.00		
3GPP Rel 99	RMC 12.2Kbps	23.75	23.83	23.82
3GPP Rel 5	HSDPA Subtest-1	23.06	23.18	23.18
	HSDPA Subtest-2	23.06	23.01	23.15
	HSDPA Subtest-3	22.60	22.52	22.52
	HSDPA Subtest-4	22.65	22.66	22.65
3GPP Rel 6	HSUPA Subtest-1	23.09	23.09	23.05
	HSUPA Subtest-2	20.94	21.07	20.90
	HSUPA Subtest-3	22.05	22.00	22.06
	HSUPA Subtest-4	20.99	21.07	21.10
	HSUPA Subtest-5	23.04	22.96	22.97
3GPP Rel 8	DC-HSDPA Subtest-1	23.06	23.16	23.03
	DC-HSDPA Subtest-2	23.09	23.06	23.04
	DC-HSDPA Subtest-3	22.59	22.52	22.69
	DC-HSDPA Subtest-4	22.65	22.63	22.64

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FD LTE

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	23.85	23.93	23.84	25.00	0
		1	25	23.80	23.87	23.82	25.00	0
		1	49	23.81	23.72	23.80	25.00	0
		25	0	22.82	22.69	22.80	24.00	1
		25	12	22.82	22.79	22.79	24.00	1
		25	25	22.73	22.74	22.77	24.00	1
		50	0	22.86	22.76	22.80	24.00	1
	16-QAM	1	0	22.74	22.69	22.85	24.00	1
		1	25	22.82	22.72	22.76	24.00	1
		1	49	22.74	22.85	22.78	24.00	1
		25	0	21.76	21.74	21.82	23.00	2
		25	12	21.74	21.70	21.71	23.00	2
		25	25	21.87	21.74	21.83	23.00	2
		50	0	21.75	21.72	21.86	23.00	2
	64-QAM	1	0	21.87	21.77	21.89	23.00	2
		1	25	21.69	21.70	21.79	23.00	2
		1	49	21.85	21.80	21.77	23.00	2
		25	0	20.79	20.81	20.75	22.00	3
		25	12	20.88	20.86	20.86	22.00	3
		25	25	20.75	20.70	20.71	22.00	3
		50	0	20.89	20.79	20.70	22.00	3
	256-QAM	1	0	20.80	20.70	20.73	22.00	3
		1	25	20.71	20.72	20.79	22.00	3
		1	49	20.76	20.72	20.71	22.00	3
		25	0	19.86	19.77	19.88	21.00	4
		25	12	19.73	19.87	19.75	21.00	4
		25	25	19.75	19.88	19.87	21.00	4
		50	0	19.69	19.79	19.77	21.00	4

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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)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	23.73	23.88	23.84	25.00	0
		1	12	23.84	23.76	23.88	25.00	0
		1	24	23.78	23.88	23.72	25.00	0
		12	0	22.75	22.86	22.82	24.00	1
		12	6	22.81	22.83	22.75	24.00	1
		12	13	22.88	22.83	22.79	24.00	1
		25	0	22.88	22.80	22.73	24.00	1
	16-QAM	1	0	22.85	22.77	22.78	24.00	1
		1	12	22.79	22.80	22.84	24.00	1
		1	24	22.89	22.81	22.87	24.00	1
		12	0	21.76	21.85	21.85	23.00	2
		12	6	21.82	21.76	21.86	23.00	2
		12	13	21.74	21.85	21.74	23.00	2
		25	0	21.86	21.71	21.87	23.00	2
	64-QAM	1	0	21.73	21.72	21.70	23.00	2
		1	12	21.81	21.72	21.79	23.00	2
		1	24	21.80	21.77	21.74	23.00	2
		12	0	20.71	20.74	20.80	22.00	3
		12	6	20.77	20.84	20.87	22.00	3
		12	13	20.78	20.76	20.77	22.00	3
		25	0	20.84	20.76	20.84	22.00	3
	256-QAM	1	0	20.80	20.70	20.87	22.00	3
		1	12	20.73	20.86	20.78	22.00	3
		1	24	20.84	20.79	20.71	22.00	3
		12	0	19.75	19.78	19.76	21.00	4
		12	6	19.72	19.83	19.83	21.00	4
		12	13	19.87	19.79	19.71	21.00	4
		25	0	19.76	19.84	19.76	21.00	4

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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	23.75	23.88	23.79	25.00	0
		1	7	23.76	23.71	23.79	25.00	0
		1	14	23.88	23.84	23.81	25.00	0
		8	0	22.87	22.72	22.74	24.00	1
		8	4	22.89	22.80	22.79	24.00	1
		8	7	22.85	22.89	22.81	24.00	1
		15	0	22.87	22.87	22.77	24.00	1
	16-QAM	1	0	22.79	22.71	22.74	24.00	1
		1	7	22.77	22.77	22.85	24.00	1
		1	14	22.69	22.89	22.69	24.00	1
		8	0	21.71	21.85	21.84	23.00	2
		8	4	21.81	21.81	21.71	23.00	2
		8	7	21.75	21.71	21.75	23.00	2
		15	0	21.86	21.80	21.69	23.00	2
	64-QAM	1	0	21.86	21.88	21.83	23.00	2
		1	7	21.77	21.75	21.76	23.00	2
		1	14	21.89	21.85	21.72	23.00	2
		8	0	20.74	20.76	20.86	22.00	3
		8	4	20.73	20.78	20.71	22.00	3
		8	7	20.77	20.81	20.85	22.00	3
		15	0	20.79	20.86	20.81	22.00	3
	256-QAM	1	0	20.83	20.71	20.84	22.00	3
		1	7	20.78	20.74	20.70	22.00	3
		1	14	20.74	20.82	20.73	22.00	3
		8	0	19.70	19.86	19.77	21.00	4
		8	4	19.75	19.81	19.75	21.00	4
		8	7	19.72	19.82	19.82	21.00	4
		15	0	19.79	19.84	19.74	21.00	4

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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)				824.7	836.5	848.3			
Channel				20407	20525	20643			
1.4	QPSK	1	0	23.86	23.70	23.81	25.00	0	
		1	2	23.77	23.83	23.82	25.00	0	
		1	5	23.73	23.75	23.78	25.00	0	
		3	0	23.81	23.80	23.72	25.00	0	
		3	2	23.86	23.85	23.82	25.00	0	
		3	3	23.84	23.73	23.87	25.00	0	
	16-QAM	6	0	22.79	22.84	22.73	24.00	1	
		1	0	22.77	22.83	22.87	24.00	1	
		1	2	22.77	22.87	22.82	24.00	1	
		1	5	22.84	22.75	22.77	24.00	1	
		3	0	22.70	22.73	22.88	24.00	1	
		3	2	22.77	22.78	22.80	24.00	1	
	64-QAM	3	3	22.72	22.80	22.87	24.00	1	
		6	0	21.70	21.76	21.80	23.00	2	
		1	0	21.86	21.72	21.85	23.00	2	
		1	2	21.86	21.74	21.83	23.00	2	
		1	5	21.87	21.76	21.89	23.00	2	
		3	0	21.79	21.79	21.76	23.00	2	
	256-QAM	3	2	21.77	21.89	21.80	23.00	2	
		3	3	21.88	21.74	21.76	23.00	2	
		6	0	20.77	20.75	20.84	22.00	3	
		1	0	20.84	20.79	20.85	22.00	3	
		1	2	20.70	20.75	20.81	22.00	3	
		1	5	20.82	20.86	20.82	22.00	3	
			3	0	20.77	20.70	20.73	22.00	3
			3	2	20.84	20.80	20.72	22.00	3
			3	3	20.87	20.81	20.80	22.00	3
			6	0	19.74	19.76	19.87	21.00	4

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1.3.3 Ant 2

2G BODY DSI 3

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power		Source-based time average power	
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GSM1900 (GMSK)	1850.2	512	30.5	29.45	20.42		
	1800	661	30.5	29.51	20.48		
	1909.8	810	30.5	29.50	20.47		
The division factor compared to the number of TX time slot							
Division factor				1 TX time slot			
				-9.03			
Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	25.7	24.5	
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12	
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	29.41	26.67	23.75	23.50	
	1880	661	29.43	26.80	25.23	24.37	
	1909.8	810	29.45	26.81	24.70	24.33	
Source-based time average power							
GPRS 1900 (GMSK)	1850.2	512	20.38	20.65	19.49	20.49	
	1880	661	20.40	20.78	20.97	21.36	
	1909.8	810	20.42	20.79	20.44	21.32	
The division factor compared to the number of TX time slot							
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot	
			-9.03	-6.02	-4.26	-3.01	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	24.5	22.7	21.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	26.87	24.05	21.10	21.05
	1880	661	26.70	24.08	22.09	20.91
	1909.8	810	26.97	24.20	22.17	21.13
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	17.84	18.03	16.84	18.04
	1880	661	17.67	18.06	17.83	17.90
	1909.8	810	17.94	18.18	17.91	18.12
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

2G HEAD DSI 8

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power	Source-based time average power
				Avg. (dBm)	Avg. (dBm)
GSM1900 (GMSK)	1850.2	512	29	28.10	19.07
	1800	661	29	27.81	18.78
	1909.8	810	29	28.55	19.52
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			29	26	24.2	23
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	28.12	25.02	23.21	21.62
	1880	661	27.86	24.74	23.32	21.35
	1909.8	810	28.56	25.78	23.85	22.26
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	19.09	19.00	18.95	18.61
	1880	661	18.83	18.72	19.06	18.34
	1909.8	810	19.53	19.76	19.59	19.25
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01
Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	24.5	22.7	21.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	26.11	22.96	21.17	19.55
	1880	661	25.85	22.65	21.32	19.86
	1909.8	810	26.55	23.74	21.82	20.23
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	17.08	16.94	16.91	16.54
	1880	661	16.82	16.63	17.06	16.85
	1909.8	810	17.52	17.72	17.56	17.22
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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2G_HOTSPOT_DSI_13

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power		Source-based time average power	
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GSM1900 (GMSK)	1850.2	512	30.5	29.45	20.42		
	1800	661	30.5	29.51	20.48		
	1909.8	810	30.5	29.50	20.47		
The division factor compared to the number of TX time slot							
Division factor				1 TX time slot			
				-9.03			
Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	25.7	24.5	
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12	
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	29.41	26.67	23.75	23.50	
	1880	661	29.43	26.80	25.23	24.37	
	1909.8	810	29.45	26.81	24.70	24.33	
Source-based time average power							
GPRS 1900 (GMSK)	1850.2	512	20.38	20.65	19.49	20.49	
	1880	661	20.40	20.78	20.97	21.36	
	1909.8	810	20.42	20.79	20.44	21.32	
The division factor compared to the number of TX time slot							
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot	
			-9.03	-6.02	-4.26	-3.01	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	24.5	22.7	21.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	26.87	24.05	21.10	21.05
	1880	661	26.70	24.08	22.09	20.91
	1909.8	810	26.97	24.20	22.17	21.13
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	17.84	18.03	16.84	18.04
	1880	661	17.67	18.06	17.83	17.90
	1909.8	810	17.94	18.18	17.91	18.12
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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3G_BODY DSI 3

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		20.50		
3GPP Rel 99	RMC 12.2Kbps	19.22	19.31	19.32
3GPP Rel 5	HSDPA Subtest-1	18.13	18.33	18.30
	HSDPA Subtest-2	18.35	18.29	18.21
	HSDPA Subtest-3	17.90	17.79	17.74
	HSDPA Subtest-4	17.82	17.93	17.74
3GPP Rel 6	HSUPA Subtest-1	18.34	18.25	18.39
	HSUPA Subtest-2	16.36	16.47	16.41
	HSUPA Subtest-3	17.41	17.17	17.39
	HSUPA Subtest-4	16.39	16.49	16.28
	HSUPA Subtest-5	18.19	18.23	18.26
3GPP Rel 8	DC-HSDPA Subtest-1	18.23	18.25	18.34
	DC-HSDPA Subtest-2	18.10	18.35	18.26
	DC-HSDPA Subtest-3	17.88	17.92	17.84
	DC-HSDPA Subtest-4	17.80	17.77	17.83

3G_HEAD DSI 8

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		19.50		
3GPP Rel 99	RMC 12.2Kbps	18.14	18.17	18.22
3GPP Rel 5	HSDPA Subtest-1	17.28	17.28	17.27
	HSDPA Subtest-2	17.28	17.27	17.25
	HSDPA Subtest-3	16.82	16.89	16.88
	HSDPA Subtest-4	16.85	16.81	16.85
3GPP Rel 6	HSUPA Subtest-1	17.36	17.32	17.30
	HSUPA Subtest-2	15.31	15.40	15.37
	HSUPA Subtest-3	16.34	16.40	16.32
	HSUPA Subtest-4	15.39	15.38	15.39
	HSUPA Subtest-5	17.38	17.34	17.30
3GPP Rel 8	DC-HSDPA Subtest-1	17.29	17.26	17.23
	DC-HSDPA Subtest-2	17.22	17.20	17.25
	DC-HSDPA Subtest-3	16.81	16.82	16.85
	DC-HSDPA Subtest-4	16.85	16.82	16.83

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3G_HOTSPOT DSI 13

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		19.50		
3GPP Rel 99	RMC 12.2Kbps	18.12	18.15	18.03
3GPP Rel 5	HSDPA Subtest-1	17.26	17.20	17.21
	HSDPA Subtest-2	17.24	17.28	17.24
	HSDPA Subtest-3	16.89	16.88	16.85
	HSDPA Subtest-4	16.85	16.84	16.81
3GPP Rel 6	HSUPA Subtest-1	17.33	17.37	17.35
	HSUPA Subtest-2	15.32	15.37	15.34
	HSUPA Subtest-3	16.37	16.35	16.32
	HSUPA Subtest-4	15.30	15.35	15.40
	HSUPA Subtest-5	17.35	17.38	17.34
3GPP Rel 8	DC-HSDPA Subtest-1	17.26	17.30	17.30
	DC-HSDPA Subtest-2	17.25	17.27	17.23
	DC-HSDPA Subtest-3	16.90	16.84	16.81
	DC-HSDPA Subtest-4	16.87	16.85	16.85

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1.3.4 Ant 3
NR TDD BODY DSI 3

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	22.95	22.90	22.80	24.30	0.0
		1	53	22.74	22.74	22.62	24.30	0.0
		1	104	22.73	22.65	22.72	24.30	0.0
		50	0	22.22	22.17	22.22	23.80	0.5
		50	28	22.66	22.73	22.71	24.30	0.0
		50	56	22.27	22.14	22.11	23.80	0.5
		100	0	22.29	22.22	22.25	23.80	0.5
	QPSK	1	1	22.75	22.65	22.66	24.30	0.0
		1	53	22.61	22.60	22.69	24.30	0.0
		1	104	22.69	22.77	22.67	24.30	0.0
		50	0	21.68	21.61	21.59	23.30	1.0
		50	28	22.66	22.72	22.66	24.30	0.0
		50	56	21.74	21.68	21.62	23.30	1.0
	100	0	21.69	21.61	21.72	23.30	1.0	
	16-QAM	1	1	21.77	21.76	21.70	23.30	1.0
	64QAM	1	1	21.42	21.49	21.44	21.80	2.5
	256-QAM	1	1	19.41	19.51	19.44	19.80	4.5
5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	22.71	22.72	22.66	24.30	0.0

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5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	22.59	22.64	22.79	24.30	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	23.02	23.07	22.80	24.50	0.0
		1	137	22.98	23.06	22.67	24.50	0.0
		1	271	23.01	22.89	22.62	24.50	0.0
		135	0	22.44	22.52	22.19	24.00	0.5
		135	69	22.98	22.97	22.76	24.50	0.0
		135	138	22.58	22.59	22.22	24.00	0.5
		270	0	22.49	22.45	22.29	24.00	0.5
	QPSK	1	1	22.99	23.00	22.73	24.50	0.0
		1	137	23.02	23.03	22.69	24.50	0.0
		1	271	22.99	23.05	22.73	24.50	0.0
		135	0	22.03	22.01	21.66	23.50	1.0
		135	69	22.96	22.92	22.72	24.50	0.0
		135	138	22.03	21.92	21.71	23.50	1.0
		270	0	22.07	22.06	21.78	23.50	1.0
	16-QAM	1	1	22.07	21.98	21.75	23.50	1.0
64QAM	1	1	21.52	21.52	21.53	22.00	2.5	
256-QAM	1	1	19.45	19.57	19.46	20.00	4.5	
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	22.90	22.97	22.74	24.50	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	22.99	23.00	22.70	24.50	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	22.99	23.00	22.70	24.50	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	22.92	22.89	22.62	24.50	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	22.92	22.89	22.62	24.50	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	22.93	23.06	22.73	24.50	0.0

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NR TDD HEAD DSI 8

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	22.95	22.90	22.80	24.30	0.0
		1	53	22.74	22.74	22.62	24.30	0.0
		1	104	22.73	22.65	22.72	24.30	0.0
		50	0	22.22	22.17	22.22	23.80	0.5
		50	28	22.66	22.73	22.71	24.30	0.0
		50	56	22.27	22.14	22.11	23.80	0.5
		100	0	22.29	22.22	22.25	23.80	0.5
	QPSK	1	1	22.75	22.65	22.66	24.30	0.0
		1	53	22.61	22.60	22.69	24.30	0.0
		1	104	22.69	22.77	22.67	24.30	0.0
		50	0	21.68	21.61	21.59	23.30	1.0
		50	28	22.66	22.72	22.66	24.30	0.0
		50	56	21.74	21.68	21.62	23.30	1.0
		100	0	21.69	21.61	21.72	23.30	1.0
	16-QAM	1	1	21.77	21.76	21.70	23.30	1.0
	64QAM	1	1	21.42	21.49	21.44	21.80	2.5
256-QAM	1	1	19.41	19.51	19.44	19.80	4.5	
5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	22.71	22.72	22.66	24.30	0.0

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5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	22.59	22.64	22.79	24.30	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	23.02	23.07	22.80	24.50	0.0
		1	137	22.98	23.06	22.67	24.50	0.0
		1	271	23.01	22.89	22.62	24.50	0.0
		135	0	22.44	22.52	22.19	24.00	0.5
		135	69	22.98	22.97	22.76	24.50	0.0
		135	138	22.58	22.59	22.22	24.00	0.5
		270	0	22.49	22.45	22.29	24.00	0.5
	QPSK	1	1	22.99	23.00	22.73	24.50	0.0
		1	137	23.02	23.03	22.69	24.50	0.0
		1	271	22.99	23.05	22.73	24.50	0.0
		135	0	22.03	22.01	21.66	23.50	1.0
		135	69	22.96	22.92	22.72	24.50	0.0
		135	138	22.03	21.92	21.71	23.50	1.0
		270	0	22.07	22.06	21.78	23.50	1.0
	16-QAM	1	1	22.07	21.98	21.75	23.50	1.0
	64QAM	1	1	21.52	21.52	21.53	22.00	2.5
256-QAM	1	1	19.45	19.57	19.46	20.00	4.5	
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	22.90	22.97	22.74	24.50	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	22.99	23.00	22.70	24.50	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	22.99	22.99	22.70	24.50	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	22.92	22.89	22.62	24.50	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	22.90	22.97	22.75	24.50	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	22.93	23.06	22.73	24.50	0.0

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NR TDD HOTSPOT DSI 13

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	20.69	20.76	20.79	20.80	0.0
		1	53	20.47	20.48	20.58	20.80	0.0
		1	104	20.46	20.43	20.62	20.80	0.0
		50	0	20.06	19.97	20.10	20.30	0.5
		50	28	20.48	20.50	20.54	20.80	0.0
		50	56	20.08	20.10	20.15	20.30	0.5
		100	0	20.05	20.08	20.08	20.30	0.5
	QPSK	1	1	20.61	20.65	20.57	20.80	0.0
		1	53	20.56	20.53	20.46	20.80	0.0
		1	104	20.60	20.59	20.59	20.80	0.0
		50	0	19.50	19.52	19.52	19.80	1.0
		50	28	20.56	20.50	20.47	20.80	0.0
		50	56	19.47	19.55	19.56	19.80	1.0
		100	0	19.49	19.50	19.50	19.80	1.0
	16-QAM	1	1	19.48	19.59	19.63	19.80	1.0
	64QAM	1	1	17.96	18.07	17.99	18.30	2.5
	256-QAM	1	1	16.09	16.12	16.08	16.30	4.5
	5G NR n38_30kHz							
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	20.52	20.58	20.54	20.80	0.0

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5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	20.62	20.53	20.57	20.80	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	18.81	18.85	18.82	19.00	0.0
		1	137	18.75	18.74	18.71	19.00	0.0
		1	271	18.70	18.72	18.76	19.00	0.0
		135	0	18.23	18.29	18.21	18.50	0.5
		135	69	18.80	18.78	18.79	19.00	0.0
		135	138	18.20	18.23	18.29	18.50	0.5
		270	0	18.23	18.29	18.20	18.50	0.5
	QPSK	1	1	18.80	18.71	18.75	19.00	0.0
		1	137	18.73	18.70	18.80	19.00	0.0
		1	271	18.72	18.80	18.74	19.00	0.0
		135	0	17.77	17.76	17.71	18.00	1.0
		135	69	18.77	18.76	18.74	19.00	0.0
		135	138	17.76	17.78	17.77	18.00	1.0
		270	0	17.75	17.77	17.79	18.00	1.0
	16-QAM	1	1	17.74	17.73	17.72	18.00	1.0
	64QAM	1	1	16.30	16.23	16.23	16.50	2.5
256-QAM	1	1	14.22	14.29	14.21	14.50	4.5	
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	18.79	18.72	18.71	19.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	18.74	18.72	18.76	19.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	18.76	18.77	18.70	19.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	18.77	18.74	18.78	19.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	18.72	18.71	18.76	19.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	18.77	18.70	18.78	19.00	0.0

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TD LTE BODY DSI 3

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	22.29	22.25	22.23	24.00	0
		1	50	22.20	22.16	22.08	24.00	0
		1	99	22.16	22.05	22.18	24.00	0
		50	0	21.18	21.09	21.04	23.00	1
		50	25	21.04	21.19	21.17	23.00	1
		50	50	21.06	21.10	21.11	23.00	1
		100	0	21.18	21.08	21.01	23.00	1
	16-QAM	1	0	21.12	21.00	21.11	23.00	1
		1	50	21.07	21.07	21.19	23.00	1
		1	99	21.10	21.09	21.19	23.00	1
		50	0	20.16	20.09	20.07	22.00	2
		50	25	20.10	20.05	20.08	22.00	2
		50	50	20.16	20.11	20.01	22.00	2
		100	0	20.07	20.06	20.12	22.00	2
	64-QAM	1	0	20.16	20.00	20.17	22.00	2
		1	50	20.11	20.03	20.16	22.00	2
		1	99	20.11	20.07	20.08	22.00	2
		50	0	19.04	19.06	19.04	21.00	3
		50	25	19.00	19.07	19.13	21.00	3
		50	50	19.07	19.09	19.20	21.00	3
		100	0	19.09	19.09	19.14	21.00	3
	256-QAM	1	0	19.16	19.10	19.04	21.00	3
		1	50	19.09	19.00	19.06	21.00	3
		1	99	19.17	19.01	19.05	21.00	3
		50	0	18.19	18.15	18.03	20.00	4
		50	25	18.14	18.13	18.16	20.00	4
		50	50	18.02	18.00	18.02	20.00	4
		100	0	18.02	18.13	18.17	20.00	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.05	22.10	22.16	24.00	0
		1	36	22.04	22.06	22.15	24.00	0
		1	74	22.15	22.05	22.10	24.00	0
		36	0	21.05	21.00	21.00	23.00	1
		36	18	21.13	21.15	21.15	23.00	1
		36	37	21.03	21.13	21.02	23.00	1
		75	0	21.11	21.16	21.04	23.00	1
	16-QAM	1	0	21.13	21.20	21.04	23.00	1
		1	36	21.10	21.07	21.03	23.00	1
		1	74	21.12	21.13	21.16	23.00	1
		36	0	20.18	20.19	20.14	22.00	2
		36	18	20.01	20.09	20.11	22.00	2
		36	37	20.17	20.17	20.17	22.00	2
		75	0	20.09	20.14	20.19	22.00	2
	64-QAM	1	0	20.06	20.09	20.11	22.00	2
		1	36	20.03	20.11	20.18	22.00	2
		1	74	20.05	20.04	20.08	22.00	2
		36	0	19.18	19.15	19.09	21.00	3
		36	18	19.02	19.08	19.16	21.00	3
		36	37	19.07	19.05	19.19	21.00	3
		75	0	19.06	19.20	19.02	21.00	3
	256-QAM	1	0	19.05	19.18	19.08	21.00	3
		1	36	19.01	19.20	19.08	21.00	3
		1	74	19.01	19.08	19.09	21.00	3
		36	0	18.17	18.08	18.02	20.00	4
		36	18	18.10	18.16	18.18	20.00	4
		36	37	18.01	18.01	18.19	20.00	4
		75	0	18.19	18.10	18.09	20.00	4

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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	22.18	22.15	22.01	24.00	0
		1	25	22.14	22.07	22.20	24.00	0
		1	49	22.19	22.16	22.12	24.00	0
		25	0	21.14	21.12	21.08	23.00	1
		25	12	21.17	21.19	21.18	23.00	1
		25	25	21.03	21.19	21.17	23.00	1
		50	0	21.07	21.13	21.04	23.00	1
	16-QAM	1	0	21.01	21.08	21.06	23.00	1
		1	25	21.19	21.05	21.05	23.00	1
		1	49	21.16	21.15	21.10	23.00	1
		25	0	20.13	20.14	20.02	22.00	2
		25	12	20.20	20.06	20.19	22.00	2
		25	25	20.19	20.09	20.04	22.00	2
		50	0	20.12	20.01	20.05	22.00	2
	64-QAM	1	0	20.07	20.18	20.09	22.00	2
		1	25	20.00	20.17	20.20	22.00	2
		1	49	20.05	20.15	20.05	22.00	2
		25	0	19.11	19.02	19.09	21.00	3
		25	12	19.08	19.19	19.10	21.00	3
		25	25	19.20	19.06	19.07	21.00	3
		50	0	19.03	19.14	19.06	21.00	3
	256-QAM	1	0	19.04	19.20	19.15	21.00	3
		1	25	19.00	19.00	19.09	21.00	3
		1	49	19.10	19.16	19.03	21.00	3
		25	0	18.07	18.10	18.19	20.00	4
		25	12	18.00	18.08	18.18	20.00	4
		25	25	18.12	18.01	18.03	20.00	4
		50	0	18.13	18.14	18.20	20.00	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	22.12	22.03	22.18	24.00	0
		1	12	22.19	22.18	22.19	24.00	0
		1	24	22.14	22.08	22.19	24.00	0
		12	0	21.04	21.02	21.19	23.00	1
		12	6	21.09	21.06	21.14	23.00	1
		12	13	21.00	21.09	21.06	23.00	1
		25	0	21.03	21.15	21.14	23.00	1
	16-QAM	1	0	21.19	21.10	21.04	23.00	1
		1	12	21.06	21.09	21.14	23.00	1
		1	24	21.04	21.15	21.12	23.00	1
		12	0	20.20	20.10	20.14	22.00	2
		12	6	20.02	20.20	20.06	22.00	2
		12	13	20.09	20.08	20.04	22.00	2
		25	0	20.16	20.05	20.09	22.00	2
	64-QAM	1	0	20.03	20.13	20.12	22.00	2
		1	12	20.14	20.16	20.17	22.00	2
		1	24	20.19	20.01	20.12	22.00	2
		12	0	19.15	19.13	19.07	21.00	3
		12	6	19.06	19.13	19.16	21.00	3
		12	13	19.15	19.00	19.08	21.00	3
		25	0	19.11	19.03	19.00	21.00	3
	256-QAM	1	0	19.14	19.07	19.19	21.00	3
		1	12	19.02	19.15	19.14	21.00	3
		1	24	19.09	19.13	19.18	21.00	3
		12	0	18.06	18.06	18.03	20.00	4
		12	6	18.10	18.02	18.13	20.00	4
		12	13	18.04	18.16	18.10	20.00	4
		25	0	18.12	18.04	18.02	20.00	4

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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	22.44	22.58	22.41	22.47	22.93	24.20	0
		1	50	22.36	22.43	22.27	22.33	22.55	24.20	0
		1	99	22.25	22.43	22.24	22.35	22.67	24.20	0
		50	0	21.24	21.39	21.37	21.32	21.51	23.20	1
		50	25	21.33	21.46	21.32	21.40	21.61	23.20	1
		50	50	21.38	21.38	21.39	21.25	21.70	23.20	1
		100	0	21.22	21.34	21.21	21.38	21.69	23.20	1
	16-QAM	1	0	21.38	21.36	21.32	21.32	21.63	23.20	1
		1	50	21.28	21.40	21.36	21.30	21.53	23.20	1
		1	99	21.30	21.42	21.34	21.32	21.69	23.20	1
		50	0	20.39	20.36	20.40	20.24	20.59	22.20	2
		50	25	20.27	20.48	20.40	20.35	20.52	22.20	2
		50	50	20.32	20.46	20.35	20.40	20.70	22.20	2
		100	0	20.36	20.44	20.28	20.21	20.52	22.20	2
	64-QAM	1	0	20.28	20.32	20.26	20.26	20.50	22.20	2
		1	50	20.38	20.37	20.20	20.31	20.55	22.20	2
		1	99	20.34	20.49	20.31	20.39	20.54	22.20	2
		50	0	19.25	19.49	19.31	19.31	19.61	21.20	3
		50	25	19.33	19.34	19.39	19.26	19.66	21.20	3
		50	50	19.27	19.32	19.35	19.22	19.69	21.20	3
		100	0	19.29	19.45	19.25	19.38	19.60	21.20	3
	256-QAM	1	0	19.32	19.46	19.31	19.21	19.61	21.20	3
		1	50	19.37	19.46	19.26	19.22	19.59	21.20	3
		1	99	19.25	19.50	19.25	19.38	19.69	21.20	3
		50	0	18.27	18.32	18.33	18.29	18.68	20.20	4
		50	25	18.23	18.47	18.37	18.23	18.60	20.20	4
		50	50	18.28	18.35	18.31	18.39	18.65	20.20	4
100		0	18.37	18.35	18.25	18.27	18.57	20.20	4	

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	22.22	22.38	22.35	22.26	22.54	24.20	0
		1	36	22.33	22.30	22.24	22.28	22.68	24.20	0
		1	74	22.32	22.48	22.33	22.38	22.67	24.20	0
		36	0	21.36	21.47	21.34	21.25	21.57	23.20	1
		36	18	21.31	21.34	21.22	21.37	21.58	23.20	1
		36	37	21.24	21.49	21.27	21.24	21.52	23.20	1
	16-QAM	75	0	21.27	21.38	21.21	21.27	21.58	23.20	1
		1	0	21.30	21.41	21.31	21.26	21.53	23.20	1
		1	36	21.27	21.40	21.31	21.32	21.52	23.20	1
		1	74	21.21	21.43	21.22	21.25	21.62	23.20	1
		36	0	20.21	20.43	20.33	20.39	20.63	22.20	2
		36	18	20.27	20.31	20.32	20.39	20.51	22.20	2
	64-QAM	36	37	20.30	20.31	20.26	20.21	20.69	22.20	2
		75	0	20.36	20.34	20.24	20.21	20.56	22.20	2
		1	0	20.23	20.41	20.39	20.26	20.58	22.20	2
		1	36	20.27	20.44	20.35	20.31	20.65	22.20	2
		1	74	20.35	20.39	20.35	20.25	20.61	22.20	2
		36	0	19.30	19.44	19.37	19.37	19.60	21.20	3
	256-QAM	36	18	19.35	19.37	19.30	19.33	19.62	21.20	3
		36	37	19.25	19.50	19.23	19.25	19.52	21.20	3
		75	0	19.35	19.46	19.29	19.40	19.66	21.20	3
		1	0	19.30	19.43	19.40	19.34	19.61	21.20	3
		1	36	19.30	19.36	19.24	19.26	19.57	21.20	3
		1	74	19.22	19.47	19.30	19.36	19.58	21.20	3
	36	0	18.20	18.32	18.30	18.24	18.68	20.20	4	
	36	18	18.28	18.43	18.21	18.36	18.63	20.20	4	
	36	37	18.21	18.46	18.35	18.39	18.58	20.20	4	
	75	0	18.31	18.36	18.26	18.21	18.57	20.20	4	

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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	22.24	22.43	22.34	22.25	22.64	24.20	0
		1	25	22.27	22.38	22.22	22.36	22.59	24.20	0
		1	49	22.30	22.43	22.39	22.38	22.53	24.20	0
		25	0	21.29	21.34	21.29	21.35	21.56	23.20	1
		25	12	21.22	21.34	21.21	21.30	21.57	23.20	1
		25	25	21.21	21.49	21.40	21.37	21.56	23.20	1
	16-QAM	50	0	21.22	21.45	21.36	21.30	21.66	23.20	1
		1	0	21.25	21.35	21.31	21.38	21.59	23.20	1
		1	25	21.25	21.37	21.27	21.37	21.67	23.20	1
		1	49	21.23	21.31	21.32	21.37	21.59	23.20	1
		25	0	20.28	20.36	20.31	20.34	20.62	22.20	2
		25	12	20.31	20.41	20.33	20.21	20.58	22.20	2
	64-QAM	25	25	20.23	20.46	20.26	20.37	20.54	22.20	2
		50	0	20.25	20.35	20.39	20.28	20.66	22.20	2
		1	0	20.32	20.40	20.31	20.30	20.59	22.20	2
		1	25	20.33	20.42	20.34	20.25	20.65	22.20	2
		1	49	20.39	20.30	20.29	20.22	20.68	22.20	2
		25	0	19.28	19.49	19.25	19.35	19.59	21.20	3
	256-QAM	25	12	19.25	19.49	19.24	19.27	19.64	21.20	3
		25	25	19.25	19.39	19.31	19.24	19.53	21.20	3
		50	0	19.33	19.50	19.32	19.28	19.69	21.20	3
		1	0	19.25	19.44	19.35	19.38	19.70	21.20	3
		1	25	19.25	19.44	19.23	19.22	19.58	21.20	3
		1	49	19.22	19.41	19.40	19.31	19.55	21.20	3
	256-QAM	25	0	18.38	18.42	18.30	18.30	18.51	20.20	4
		25	12	18.24	18.46	18.35	18.22	18.67	20.20	4
		25	25	18.27	18.40	18.29	18.39	18.61	20.20	4
		50	0	18.26	18.33	18.30	18.21	18.66	20.20	4

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	22.26	22.31	22.23	22.21	22.68	24.20	0
		1	12	22.23	22.40	22.26	22.39	22.54	24.20	0
		1	24	22.22	22.37	22.24	22.37	22.65	24.20	0
		12	0	21.25	21.34	21.20	21.21	21.50	23.20	1
		12	6	21.38	21.42	21.35	21.36	21.69	23.20	1
		12	13	21.24	21.43	21.27	21.31	21.57	23.20	1
	16-QAM	25	0	21.31	21.48	21.28	21.36	21.70	23.20	1
		1	0	21.25	21.50	21.31	21.36	21.63	23.20	1
		1	12	21.21	21.42	21.22	21.21	21.62	23.20	1
		1	24	21.24	21.38	21.32	21.39	21.58	23.20	1
		12	0	20.23	20.39	20.39	20.33	20.56	22.20	2
		12	6	20.34	20.41	20.30	20.40	20.65	22.20	2
	64-QAM	12	13	20.28	20.32	20.27	20.24	20.62	22.20	2
		25	0	20.29	20.43	20.20	20.34	20.54	22.20	2
		1	0	20.36	20.41	20.37	20.32	20.54	22.20	2
		1	12	20.29	20.44	20.32	20.27	20.63	22.20	2
		1	24	20.32	20.35	20.35	20.25	20.64	22.20	2
		12	0	19.31	19.48	19.22	19.24	19.66	21.20	3
	256-QAM	12	6	19.34	19.41	19.31	19.24	19.66	21.20	3
		12	13	19.24	19.31	19.35	19.27	19.65	21.20	3
		25	0	19.34	19.35	19.26	19.22	19.69	21.20	3
		1	0	19.38	19.33	19.24	19.24	19.51	21.20	3
		1	12	19.21	19.45	19.29	19.39	19.63	21.20	3
		1	24	19.30	19.45	19.33	19.34	19.55	21.20	3
		12	0	18.35	18.35	18.21	18.27	18.69	20.20	4
		12	6	18.32	18.40	18.22	18.31	18.70	20.20	4
		12	13	18.23	18.45	18.21	18.36	18.60	20.20	4
		25	0	18.21	18.47	18.37	18.22	18.67	20.20	4

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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)			2580	2595	2610			
Channel			37850	38000	38150			
20	QPSK	1	0	22.29	22.25	22.23	24.00	0
		1	50	22.20	22.16	22.08	24.00	0
		1	99	22.16	22.05	22.18	24.00	0
		50	0	21.18	21.09	21.04	23.00	1
		50	25	21.04	21.19	21.17	23.00	1
		50	50	21.06	21.10	21.11	23.00	1
		100	0	21.18	21.08	21.01	23.00	1
	16-QAM	1	0	21.12	21.00	21.11	23.00	1
		1	50	21.07	21.07	21.19	23.00	1
		1	99	21.10	21.09	21.19	23.00	1
		50	0	20.16	20.09	20.07	22.00	2
		50	25	20.10	20.05	20.08	22.00	2
		50	50	20.16	20.11	20.01	22.00	2
		100	0	20.07	20.06	20.12	22.00	2
	64-QAM	1	0	20.16	20.00	20.17	22.00	2
		1	50	20.11	20.03	20.16	22.00	2
		1	99	20.11	20.07	20.08	22.00	2
		50	0	19.04	19.06	19.04	21.00	3
		50	25	19.00	19.07	19.13	21.00	3
		50	50	19.07	19.09	19.20	21.00	3
		100	0	19.09	19.09	19.14	21.00	3
	256-QAM	1	0	19.16	19.10	19.04	21.00	3
		1	50	19.09	19.00	19.06	21.00	3
		1	99	19.17	19.01	19.05	21.00	3
		50	0	18.19	18.15	18.03	20.00	4
		50	25	18.14	18.13	18.16	20.00	4
		50	50	18.02	18.00	18.02	20.00	4
		100	0	18.02	18.13	18.17	20.00	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.05	22.10	22.16	24.00	0
		1	36	22.04	22.06	22.15	24.00	0
		1	74	22.15	22.05	22.10	24.00	0
		36	0	21.05	21.00	21.00	23.00	1
		36	18	21.13	21.15	21.15	23.00	1
		36	37	21.03	21.13	21.02	23.00	1
		75	0	21.11	21.16	21.04	23.00	1
	16-QAM	1	0	21.13	21.20	21.04	23.00	1
		1	36	21.10	21.07	21.03	23.00	1
		1	74	21.12	21.13	21.16	23.00	1
		36	0	20.18	20.19	20.14	22.00	2
		36	18	20.01	20.09	20.11	22.00	2
		36	37	20.17	20.17	20.17	22.00	2
		75	0	20.09	20.14	20.19	22.00	2
	64-QAM	1	0	20.06	20.09	20.11	22.00	2
		1	36	20.03	20.11	20.18	22.00	2
		1	74	20.05	20.04	20.08	22.00	2
		36	0	19.18	19.15	19.09	21.00	3
		36	18	19.02	19.08	19.16	21.00	3
		36	37	19.07	19.05	19.19	21.00	3
		75	0	19.06	19.20	19.02	21.00	3
	256-QAM	1	0	19.05	19.18	19.08	21.00	3
		1	36	19.01	19.20	19.08	21.00	3
		1	74	19.01	19.08	19.09	21.00	3
		36	0	18.17	18.08	18.02	20.00	4
		36	18	18.10	18.16	18.18	20.00	4
		36	37	18.01	18.01	18.19	20.00	4
		75	0	18.19	18.10	18.09	20.00	4

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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	22.18	22.15	22.01	24.00	0
		1	25	22.14	22.07	22.20	24.00	0
		1	49	22.19	22.16	22.12	24.00	0
		25	0	21.14	21.12	21.08	23.00	1
		25	12	21.17	21.19	21.18	23.00	1
		25	25	21.03	21.19	21.17	23.00	1
		50	0	21.07	21.13	21.04	23.00	1
	16-QAM	1	0	21.01	21.08	21.06	23.00	1
		1	25	21.19	21.05	21.05	23.00	1
		1	49	21.16	21.15	21.10	23.00	1
		25	0	20.13	20.14	20.02	22.00	2
		25	12	20.20	20.06	20.19	22.00	2
		25	25	20.19	20.09	20.04	22.00	2
		50	0	20.12	20.01	20.05	22.00	2
	64-QAM	1	0	20.07	20.18	20.09	22.00	2
		1	25	20.00	20.17	20.20	22.00	2
		1	49	20.05	20.15	20.05	22.00	2
		25	0	19.11	19.02	19.09	21.00	3
		25	12	19.08	19.19	19.10	21.00	3
		25	25	19.20	19.06	19.07	21.00	3
		50	0	19.03	19.14	19.06	21.00	3
	256-QAM	1	0	19.04	19.20	19.15	21.00	3
		1	25	19.00	19.00	19.09	21.00	3
		1	49	19.10	19.16	19.03	21.00	3
25		0	18.07	18.10	18.19	20.00	4	
25		12	18.00	18.08	18.18	20.00	4	
25		25	18.12	18.01	18.03	20.00	4	
50		0	18.13	18.14	18.20	20.00	4	

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	22.12	22.03	22.18	24.00	0
		1	12	22.19	22.18	22.19	24.00	0
		1	24	22.14	22.08	22.19	24.00	0
		12	0	21.04	21.02	21.19	23.00	1
		12	6	21.09	21.06	21.14	23.00	1
		12	13	21.00	21.09	21.06	23.00	1
		25	0	21.03	21.15	21.14	23.00	1
	16-QAM	1	0	21.19	21.10	21.04	23.00	1
		1	12	21.06	21.09	21.14	23.00	1
		1	24	21.04	21.15	21.12	23.00	1
		12	0	20.20	20.10	20.14	22.00	2
		12	6	20.02	20.20	20.06	22.00	2
		12	13	20.09	20.08	20.04	22.00	2
		25	0	20.16	20.05	20.09	22.00	2
	64-QAM	1	0	20.03	20.13	20.12	22.00	2
		1	12	20.14	20.16	20.17	22.00	2
		1	24	20.19	20.01	20.12	22.00	2
		12	0	19.15	19.13	19.07	21.00	3
		12	6	19.06	19.13	19.16	21.00	3
		12	13	19.15	19.00	19.08	21.00	3
		25	0	19.11	19.03	19.00	21.00	3
	256-QAM	1	0	19.14	19.07	19.19	21.00	3
		1	12	19.02	19.15	19.14	21.00	3
		1	24	19.09	19.13	19.18	21.00	3
		12	0	18.06	18.06	18.03	20.00	4
		12	6	18.10	18.02	18.13	20.00	4
		12	13	18.04	18.16	18.10	20.00	4
		25	0	18.12	18.04	18.02	20.00	4

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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	22.44	22.58	22.41	22.47	22.93	24.20	0
		1	50	22.36	22.43	22.27	22.33	22.55	24.20	0
		1	99	22.25	22.43	22.24	22.35	22.67	24.20	0
		50	0	21.24	21.39	21.37	21.32	21.51	23.20	1
		50	25	21.33	21.46	21.32	21.40	21.61	23.20	1
		50	50	21.38	21.38	21.39	21.25	21.70	23.20	1
		100	0	21.22	21.34	21.21	21.38	21.69	23.20	1
	16-QAM	1	0	21.38	21.36	21.32	21.32	21.63	23.20	1
		1	50	21.28	21.40	21.36	21.30	21.53	23.20	1
		1	99	21.30	21.42	21.34	21.32	21.69	23.20	1
		50	0	20.39	20.36	20.40	20.24	20.59	22.20	2
		50	25	20.27	20.48	20.40	20.35	20.52	22.20	2
		50	50	20.32	20.46	20.35	20.40	20.70	22.20	2
		100	0	20.36	20.44	20.28	20.21	20.52	22.20	2
	64-QAM	1	0	20.28	20.32	20.26	20.26	20.50	22.20	2
		1	50	20.38	20.37	20.20	20.31	20.55	22.20	2
		1	99	20.34	20.49	20.31	20.39	20.54	22.20	2
		50	0	19.25	19.49	19.31	19.31	19.61	21.20	3
		50	25	19.33	19.34	19.39	19.26	19.66	21.20	3
		50	50	19.27	19.32	19.35	19.22	19.69	21.20	3
		100	0	19.29	19.45	19.25	19.38	19.60	21.20	3
	256-QAM	1	0	19.32	19.46	19.31	19.21	19.61	21.20	3
		1	50	19.37	19.46	19.26	19.22	19.59	21.20	3
		1	99	19.25	19.50	19.25	19.38	19.69	21.20	3
50		0	18.27	18.32	18.33	18.29	18.68	20.20	4	
50		25	18.23	18.47	18.37	18.23	18.60	20.20	4	
50		50	18.28	18.35	18.31	18.39	18.65	20.20	4	
100		0	18.37	18.35	18.25	18.27	18.57	20.20	4	

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	22.22	22.38	22.35	22.26	22.54	24.20	0
		1	36	22.33	22.30	22.24	22.28	22.68	24.20	0
		1	74	22.32	22.48	22.33	22.38	22.67	24.20	0
		36	0	21.36	21.47	21.34	21.25	21.57	23.20	1
		36	18	21.31	21.34	21.22	21.37	21.58	23.20	1
		36	37	21.24	21.49	21.27	21.24	21.52	23.20	1
		75	0	21.27	21.38	21.21	21.27	21.58	23.20	1
	16-QAM	1	0	21.30	21.41	21.31	21.26	21.53	23.20	1
		1	36	21.27	21.40	21.31	21.32	21.52	23.20	1
		1	74	21.21	21.43	21.22	21.25	21.62	23.20	1
		36	0	20.21	20.43	20.33	20.39	20.63	22.20	2
		36	18	20.27	20.31	20.32	20.39	20.51	22.20	2
		36	37	20.30	20.31	20.26	20.21	20.69	22.20	2
		75	0	20.36	20.34	20.24	20.21	20.56	22.20	2
	64-QAM	1	0	20.23	20.41	20.39	20.26	20.58	22.20	2
		1	36	20.27	20.44	20.35	20.31	20.65	22.20	2
		1	74	20.35	20.39	20.35	20.25	20.61	22.20	2
		36	0	19.30	19.44	19.37	19.37	19.60	21.20	3
		36	18	19.35	19.37	19.30	19.33	19.62	21.20	3
		36	37	19.25	19.50	19.23	19.25	19.52	21.20	3
		75	0	19.35	19.46	19.29	19.40	19.66	21.20	3
	256-QAM	1	0	19.30	19.43	19.40	19.34	19.61	21.20	3
		1	36	19.30	19.36	19.24	19.26	19.57	21.20	3
		1	74	19.22	19.47	19.30	19.36	19.58	21.20	3
		36	0	18.20	18.32	18.30	18.24	18.68	20.20	4
		36	18	18.28	18.43	18.21	18.36	18.63	20.20	4
		36	37	18.21	18.46	18.35	18.39	18.58	20.20	4
75		0	18.31	18.36	18.26	18.21	18.57	20.20	4	

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LTE Band 41										
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Frequency (MHz)			2501	2547	2593	2639	2685			
Channel			39700	40160	40620	41080	41540			
10	QPSK	1	0	22.24	22.43	22.34	22.25	22.64	24.20	0
		1	25	22.27	22.38	22.22	22.36	22.59	24.20	0
		1	49	22.30	22.43	22.39	22.38	22.53	24.20	0
		25	0	21.29	21.34	21.29	21.35	21.56	23.20	1
		25	12	21.22	21.34	21.21	21.30	21.57	23.20	1
		25	25	21.21	21.49	21.40	21.37	21.56	23.20	1
	16-QAM	50	0	21.22	21.45	21.36	21.30	21.66	23.20	1
		1	0	21.25	21.35	21.31	21.38	21.59	23.20	1
		1	25	21.25	21.37	21.27	21.37	21.67	23.20	1
		1	49	21.23	21.31	21.32	21.37	21.59	23.20	1
		25	0	20.28	20.36	20.31	20.34	20.62	22.20	2
		25	12	20.31	20.41	20.33	20.21	20.58	22.20	2
	64-QAM	25	25	20.23	20.46	20.26	20.37	20.54	22.20	2
		50	0	20.25	20.35	20.39	20.28	20.66	22.20	2
		1	0	20.32	20.40	20.31	20.30	20.59	22.20	2
		1	25	20.33	20.42	20.34	20.25	20.65	22.20	2
		1	49	20.39	20.30	20.29	20.22	20.68	22.20	2
		25	0	19.28	19.49	19.25	19.35	19.59	21.20	3
	256-QAM	25	12	19.25	19.49	19.24	19.27	19.64	21.20	3
		25	25	19.25	19.39	19.31	19.24	19.53	21.20	3
		50	0	19.33	19.50	19.32	19.28	19.69	21.20	3
		1	0	19.25	19.44	19.35	19.38	19.70	21.20	3
		1	25	19.25	19.44	19.23	19.22	19.58	21.20	3
		1	49	19.22	19.41	19.40	19.31	19.55	21.20	3
256-QAM	25	0	18.38	18.42	18.30	18.30	18.51	20.20	4	
	25	12	18.24	18.46	18.35	18.22	18.67	20.20	4	
	25	25	18.27	18.40	18.29	18.39	18.61	20.20	4	
	50	0	18.26	18.33	18.30	18.21	18.66	20.20	4	

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	22.26	22.31	22.23	22.21	22.68	24.20	0
		1	12	22.23	22.40	22.26	22.39	22.54	24.20	0
		1	24	22.22	22.37	22.24	22.37	22.65	24.20	0
		12	0	21.25	21.34	21.20	21.21	21.50	23.20	1
		12	6	21.38	21.42	21.35	21.36	21.69	23.20	1
		12	13	21.24	21.43	21.27	21.31	21.57	23.20	1
	16-QAM	25	0	21.31	21.48	21.28	21.36	21.70	23.20	1
		1	0	21.25	21.50	21.31	21.36	21.63	23.20	1
		1	12	21.21	21.42	21.22	21.21	21.62	23.20	1
		1	24	21.24	21.38	21.32	21.39	21.58	23.20	1
		12	0	20.23	20.39	20.39	20.33	20.56	22.20	2
		12	6	20.34	20.41	20.30	20.40	20.65	22.20	2
	64-QAM	12	13	20.28	20.32	20.27	20.24	20.62	22.20	2
		25	0	20.29	20.43	20.20	20.34	20.54	22.20	2
		1	0	20.36	20.41	20.37	20.32	20.54	22.20	2
		1	12	20.29	20.44	20.32	20.27	20.63	22.20	2
		1	24	20.32	20.35	20.35	20.25	20.64	22.20	2
		12	0	19.31	19.48	19.22	19.24	19.66	21.20	3
	256-QAM	12	6	19.34	19.41	19.31	19.24	19.66	21.20	3
		12	13	19.24	19.31	19.35	19.27	19.65	21.20	3
		25	0	19.34	19.35	19.26	19.22	19.69	21.20	3
		1	0	19.38	19.33	19.24	19.24	19.51	21.20	3
		1	12	19.21	19.45	19.29	19.39	19.63	21.20	3
		1	24	19.30	19.45	19.33	19.34	19.55	21.20	3
		12	0	18.35	18.35	18.21	18.27	18.69	20.20	4
		12	6	18.32	18.40	18.22	18.31	18.70	20.20	4
		12	13	18.23	18.45	18.21	18.36	18.60	20.20	4
		25	0	18.21	18.47	18.37	18.22	18.67	20.20	4

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TD LTE HOTSPOT DSI 13

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	22.29	22.25	22.23	24.00	0
		1	50	22.20	22.16	22.08	24.00	0
		1	99	22.16	22.05	22.18	24.00	0
		50	0	21.18	21.09	21.04	23.00	1
		50	25	21.04	21.19	21.17	23.00	1
		50	50	21.06	21.10	21.11	23.00	1
		100	0	21.18	21.08	21.01	23.00	1
	16-QAM	1	0	21.12	21.00	21.11	23.00	1
		1	50	21.07	21.07	21.19	23.00	1
		1	99	21.10	21.09	21.19	23.00	1
		50	0	20.16	20.09	20.07	22.00	2
		50	25	20.10	20.05	20.08	22.00	2
		50	50	20.16	20.11	20.01	22.00	2
		100	0	20.07	20.06	20.12	22.00	2
	64-QAM	1	0	20.16	20.00	20.17	22.00	2
		1	50	20.11	20.03	20.16	22.00	2
		1	99	20.11	20.07	20.08	22.00	2
		50	0	19.04	19.06	19.04	21.00	3
		50	25	19.00	19.07	19.13	21.00	3
		50	50	19.07	19.09	19.20	21.00	3
		100	0	19.09	19.09	19.14	21.00	3
	256-QAM	1	0	19.16	19.10	19.04	21.00	3
		1	50	19.09	19.00	19.06	21.00	3
		1	99	19.17	19.01	19.05	21.00	3
		50	0	18.19	18.15	18.03	20.00	4
		50	25	18.14	18.13	18.16	20.00	4
		50	50	18.02	18.00	18.02	20.00	4
		100	0	18.02	18.13	18.17	20.00	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.05	22.10	22.16	24.00	0
		1	36	22.04	22.06	22.15	24.00	0
		1	74	22.15	22.05	22.10	24.00	0
		36	0	21.05	21.00	21.00	23.00	1
		36	18	21.13	21.15	21.15	23.00	1
		36	37	21.03	21.13	21.02	23.00	1
		75	0	21.11	21.16	21.04	23.00	1
	16-QAM	1	0	21.13	21.20	21.04	23.00	1
		1	36	21.10	21.07	21.03	23.00	1
		1	74	21.12	21.13	21.16	23.00	1
		36	0	20.18	20.19	20.14	22.00	2
		36	18	20.01	20.09	20.11	22.00	2
		36	37	20.17	20.17	20.17	22.00	2
		75	0	20.09	20.14	20.19	22.00	2
	64-QAM	1	0	20.06	20.09	20.11	22.00	2
		1	36	20.03	20.11	20.18	22.00	2
		1	74	20.05	20.04	20.08	22.00	2
		36	0	19.18	19.15	19.09	21.00	3
		36	18	19.02	19.08	19.16	21.00	3
		36	37	19.07	19.05	19.19	21.00	3
		75	0	19.06	19.20	19.02	21.00	3
	256-QAM	1	0	19.05	19.18	19.08	21.00	3
		1	36	19.01	19.20	19.08	21.00	3
		1	74	19.01	19.08	19.09	21.00	3
		36	0	18.17	18.08	18.02	20.00	4
		36	18	18.10	18.16	18.18	20.00	4
		36	37	18.01	18.01	18.19	20.00	4
		75	0	18.19	18.10	18.09	20.00	4

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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	22.18	22.15	22.01	24.00	0
		1	25	22.14	22.07	22.20	24.00	0
		1	49	22.19	22.16	22.12	24.00	0
		25	0	21.14	21.12	21.08	23.00	1
		25	12	21.17	21.19	21.18	23.00	1
		25	25	21.03	21.19	21.17	23.00	1
		50	0	21.07	21.13	21.04	23.00	1
	16-QAM	1	0	21.01	21.08	21.06	23.00	1
		1	25	21.19	21.05	21.05	23.00	1
		1	49	21.16	21.15	21.10	23.00	1
		25	0	20.13	20.14	20.02	22.00	2
		25	12	20.20	20.06	20.19	22.00	2
		25	25	20.19	20.09	20.04	22.00	2
		50	0	20.12	20.01	20.05	22.00	2
	64-QAM	1	0	20.07	20.18	20.09	22.00	2
		1	25	20.00	20.17	20.20	22.00	2
		1	49	20.05	20.15	20.05	22.00	2
		25	0	19.11	19.02	19.09	21.00	3
		25	12	19.08	19.19	19.10	21.00	3
		25	25	19.20	19.06	19.07	21.00	3
		50	0	19.03	19.14	19.06	21.00	3
	256-QAM	1	0	19.04	19.20	19.15	21.00	3
		1	25	19.00	19.00	19.09	21.00	3
		1	49	19.10	19.16	19.03	21.00	3
		25	0	18.07	18.10	18.19	20.00	4
		25	12	18.00	18.08	18.18	20.00	4
		25	25	18.12	18.01	18.03	20.00	4
		50	0	18.13	18.14	18.20	20.00	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	22.12	22.03	22.18	24.00	0
		1	12	22.19	22.18	22.19	24.00	0
		1	24	22.14	22.08	22.19	24.00	0
		12	0	21.04	21.02	21.19	23.00	1
		12	6	21.09	21.06	21.14	23.00	1
		12	13	21.00	21.09	21.06	23.00	1
		25	0	21.03	21.15	21.14	23.00	1
	16-QAM	1	0	21.19	21.10	21.04	23.00	1
		1	12	21.06	21.09	21.14	23.00	1
		1	24	21.04	21.15	21.12	23.00	1
		12	0	20.20	20.10	20.14	22.00	2
		12	6	20.02	20.20	20.06	22.00	2
		12	13	20.09	20.08	20.04	22.00	2
		25	0	20.16	20.05	20.09	22.00	2
	64-QAM	1	0	20.03	20.13	20.12	22.00	2
		1	12	20.14	20.16	20.17	22.00	2
		1	24	20.19	20.01	20.12	22.00	2
		12	0	19.15	19.13	19.07	21.00	3
		12	6	19.06	19.13	19.16	21.00	3
		12	13	19.15	19.00	19.08	21.00	3
		25	0	19.11	19.03	19.00	21.00	3
	256-QAM	1	0	19.14	19.07	19.19	21.00	3
		1	12	19.02	19.15	19.14	21.00	3
		1	24	19.09	19.13	19.18	21.00	3
		12	0	18.06	18.06	18.03	20.00	4
		12	6	18.10	18.02	18.13	20.00	4
		12	13	18.04	18.16	18.10	20.00	4
		25	0	18.12	18.04	18.02	20.00	4

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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	22.44	22.58	22.41	22.47	22.93	24.20	0
		1	50	22.36	22.43	22.27	22.33	22.55	24.20	0
		1	99	22.25	22.43	22.24	22.35	22.67	24.20	0
		50	0	21.24	21.39	21.37	21.32	21.51	23.20	1
		50	25	21.33	21.46	21.32	21.40	21.61	23.20	1
		50	50	21.38	21.38	21.39	21.25	21.70	23.20	1
	16-QAM	100	0	21.22	21.34	21.21	21.38	21.69	23.20	1
		1	0	21.38	21.36	21.32	21.32	21.63	23.20	1
		1	50	21.28	21.40	21.36	21.30	21.53	23.20	1
		1	99	21.30	21.42	21.34	21.32	21.69	23.20	1
		50	0	20.39	20.36	20.40	20.24	20.59	22.20	2
		50	25	20.27	20.48	20.40	20.35	20.52	22.20	2
	64-QAM	50	50	20.32	20.46	20.35	20.40	20.70	22.20	2
		100	0	20.36	20.44	20.28	20.21	20.52	22.20	2
		1	0	20.28	20.32	20.26	20.26	20.50	22.20	2
		1	50	20.38	20.37	20.20	20.31	20.55	22.20	2
		1	99	20.34	20.49	20.31	20.39	20.54	22.20	2
		50	0	19.25	19.49	19.31	19.31	19.61	21.20	3
	256-QAM	50	25	19.33	19.34	19.39	19.26	19.66	21.20	3
		50	50	19.27	19.32	19.35	19.22	19.69	21.20	3
		100	0	19.29	19.45	19.25	19.38	19.60	21.20	3
		1	0	19.32	19.46	19.31	19.21	19.61	21.20	3
		1	50	19.37	19.46	19.26	19.22	19.59	21.20	3
		1	99	19.25	19.50	19.25	19.38	19.69	21.20	3
	50	0	18.27	18.32	18.33	18.29	18.68	20.20	4	
	50	25	18.23	18.47	18.37	18.23	18.60	20.20	4	
	50	50	18.28	18.35	18.31	18.39	18.65	20.20	4	
	100	0	18.37	18.35	18.25	18.27	18.57	20.20	4	

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	22.22	22.38	22.35	22.26	22.54	24.20	0
		1	36	22.33	22.30	22.24	22.28	22.68	24.20	0
		1	74	22.32	22.48	22.33	22.38	22.67	24.20	0
		36	0	21.36	21.47	21.34	21.25	21.57	23.20	1
		36	18	21.31	21.34	21.22	21.37	21.58	23.20	1
		36	37	21.24	21.49	21.27	21.24	21.52	23.20	1
		75	0	21.27	21.38	21.21	21.27	21.58	23.20	1
	16-QAM	1	0	21.30	21.41	21.31	21.26	21.53	23.20	1
		1	36	21.27	21.40	21.31	21.32	21.52	23.20	1
		1	74	21.21	21.43	21.22	21.25	21.62	23.20	1
		36	0	20.21	20.43	20.33	20.39	20.63	22.20	2
		36	18	20.27	20.31	20.32	20.39	20.51	22.20	2
		36	37	20.30	20.31	20.26	20.21	20.69	22.20	2
		75	0	20.36	20.34	20.24	20.21	20.56	22.20	2
	64-QAM	1	0	20.23	20.41	20.39	20.26	20.58	22.20	2
		1	36	20.27	20.44	20.35	20.31	20.65	22.20	2
		1	74	20.35	20.39	20.35	20.25	20.61	22.20	2
		36	0	19.30	19.44	19.37	19.37	19.60	21.20	3
		36	18	19.35	19.37	19.30	19.33	19.62	21.20	3
		36	37	19.25	19.50	19.23	19.25	19.52	21.20	3
		75	0	19.35	19.46	19.29	19.40	19.66	21.20	3
	256-QAM	1	0	19.30	19.43	19.40	19.34	19.61	21.20	3
		1	36	19.30	19.36	19.24	19.26	19.57	21.20	3
		1	74	19.22	19.47	19.30	19.36	19.58	21.20	3
		36	0	18.20	18.32	18.30	18.24	18.68	20.20	4
		36	18	18.28	18.43	18.21	18.36	18.63	20.20	4
		36	37	18.21	18.46	18.35	18.39	18.58	20.20	4
		75	0	18.31	18.36	18.26	18.21	18.57	20.20	4

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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	22.24	22.43	22.34	22.25	22.64	24.20	0
		1	25	22.27	22.38	22.22	22.36	22.59	24.20	0
		1	49	22.30	22.43	22.39	22.38	22.53	24.20	0
		25	0	21.29	21.34	21.29	21.35	21.56	23.20	1
		25	12	21.22	21.34	21.21	21.30	21.57	23.20	1
		25	25	21.21	21.49	21.40	21.37	21.56	23.20	1
	16-QAM	50	0	21.22	21.45	21.36	21.30	21.66	23.20	1
		1	0	21.25	21.35	21.31	21.38	21.59	23.20	1
		1	25	21.25	21.37	21.27	21.37	21.67	23.20	1
		1	49	21.23	21.31	21.32	21.37	21.59	23.20	1
		25	0	20.28	20.36	20.31	20.34	20.62	22.20	2
		25	12	20.31	20.41	20.33	20.21	20.58	22.20	2
	64-QAM	25	25	20.23	20.46	20.26	20.37	20.54	22.20	2
		50	0	20.25	20.35	20.39	20.28	20.66	22.20	2
		1	0	20.32	20.40	20.31	20.30	20.59	22.20	2
		1	25	20.33	20.42	20.34	20.25	20.65	22.20	2
		1	49	20.39	20.30	20.29	20.22	20.68	22.20	2
		25	0	19.28	19.49	19.25	19.35	19.59	21.20	3
	256-QAM	25	12	19.25	19.49	19.24	19.27	19.64	21.20	3
		25	25	19.25	19.39	19.31	19.24	19.53	21.20	3
		50	0	19.33	19.50	19.32	19.28	19.69	21.20	3
		1	0	19.25	19.44	19.35	19.38	19.70	21.20	3
		1	25	19.25	19.44	19.23	19.22	19.58	21.20	3
		1	49	19.22	19.41	19.40	19.31	19.55	21.20	3
	256-QAM	25	0	18.38	18.42	18.30	18.30	18.51	20.20	4
		25	12	18.24	18.46	18.35	18.22	18.67	20.20	4
		25	25	18.27	18.40	18.29	18.39	18.61	20.20	4
		50	0	18.26	18.33	18.30	18.21	18.66	20.20	4

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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)				2498.5	2545.8	2593	2640.3	2687.5		
Channel				39675	40148	40620	41093	41565		
5	QPSK	1	0	22.26	22.31	22.23	22.21	22.68	24.20	0
		1	12	22.23	22.40	22.26	22.39	22.54	24.20	0
		1	24	22.22	22.37	22.24	22.37	22.65	24.20	0
		12	0	21.25	21.34	21.20	21.21	21.50	23.20	1
		12	6	21.38	21.42	21.35	21.36	21.69	23.20	1
		12	13	21.24	21.43	21.27	21.31	21.57	23.20	1
		25	0	21.31	21.48	21.28	21.36	21.70	23.20	1
	16-QAM	1	0	21.25	21.50	21.31	21.36	21.63	23.20	1
		1	12	21.21	21.42	21.22	21.21	21.62	23.20	1
		1	24	21.24	21.38	21.32	21.39	21.58	23.20	1
		12	0	20.23	20.39	20.39	20.33	20.56	22.20	2
		12	6	20.34	20.41	20.30	20.40	20.65	22.20	2
		12	13	20.28	20.32	20.27	20.24	20.62	22.20	2
		25	0	20.29	20.43	20.20	20.34	20.54	22.20	2
	64-QAM	1	0	20.36	20.41	20.37	20.32	20.54	22.20	2
		1	12	20.29	20.44	20.32	20.27	20.63	22.20	2
		1	24	20.32	20.35	20.35	20.25	20.64	22.20	2
		12	0	19.31	19.48	19.22	19.24	19.66	21.20	3
		12	6	19.34	19.41	19.31	19.24	19.66	21.20	3
		12	13	19.24	19.31	19.35	19.27	19.65	21.20	3
		25	0	19.34	19.35	19.26	19.22	19.69	21.20	3
	256-QAM	1	0	19.38	19.33	19.24	19.24	19.51	21.20	3
		1	12	19.21	19.45	19.29	19.39	19.63	21.20	3
		1	24	19.30	19.45	19.33	19.34	19.55	21.20	3
		12	0	18.35	18.35	18.21	18.27	18.69	20.20	4
		12	6	18.32	18.40	18.22	18.31	18.70	20.20	4
		12	13	18.23	18.45	18.21	18.36	18.60	20.20	4
		25	0	18.21	18.47	18.37	18.22	18.67	20.20	4

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1.3.5 Ant 4
FD LTE BODY DSI 3

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	21.95	21.89	21.86	23.70	0
		1	50	21.85	21.89	21.86	23.70	0
		1	99	21.88	21.76	21.79	23.70	0
		50	0	20.78	20.79	20.89	22.70	1
		50	25	20.87	20.70	20.84	22.70	1
		50	50	20.90	20.86	20.76	22.70	1
		100	0	20.75	20.87	20.87	22.70	1
	16-QAM	1	0	20.71	20.87	20.75	22.70	1
		1	50	20.83	20.72	20.87	22.70	1
		1	99	20.75	20.85	20.79	22.70	1
		50	0	19.87	19.80	19.72	21.70	2
		50	25	19.75	19.86	19.70	21.70	2
		50	50	19.78	19.72	19.78	21.70	2
		100	0	19.79	19.80	19.77	21.70	2
	64-QAM	1	0	19.78	19.82	19.76	21.70	2
		1	50	19.81	19.77	19.79	21.70	2
		1	99	19.76	19.84	19.70	21.70	2
		50	0	18.71	18.72	18.80	20.70	3
		50	25	18.84	18.86	18.74	20.70	3
		50	50	18.74	18.79	18.81	20.70	3
		100	0	18.87	18.75	18.78	20.70	3
	256-QAM	1	0	18.76	18.85	18.81	20.70	3
		1	50	18.77	18.84	18.80	20.70	3
		1	99	18.83	18.82	18.71	20.70	3
		50	0	17.85	17.84	17.79	19.70	4
		50	25	17.81	17.79	17.79	19.70	4
		50	50	17.80	17.89	17.87	19.70	4
		100	0	17.72	17.89	17.73	19.70	4

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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)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	21.79	21.87	21.83	23.70	0
		1	36	21.82	21.84	21.86	23.70	0
		1	74	21.73	21.84	21.72	23.70	0
		36	0	20.81	20.79	20.80	22.70	1
		36	18	20.87	20.88	20.86	22.70	1
		36	37	20.89	20.80	20.78	22.70	1
		75	0	20.77	20.78	20.88	22.70	1
	16-QAM	1	0	20.70	20.77	20.79	22.70	1
		1	36	20.83	20.84	20.70	22.70	1
		1	74	20.87	20.89	20.83	22.70	1
		36	0	19.79	19.83	19.77	21.70	2
		36	18	19.84	19.88	19.78	21.70	2
		36	37	19.75	19.73	19.77	21.70	2
		75	0	19.79	19.87	19.74	21.70	2
	64-QAM	1	0	19.80	19.71	19.75	21.70	2
		1	36	19.78	19.78	19.82	21.70	2
		1	74	19.71	19.89	19.79	21.70	2
		36	0	18.74	18.85	18.76	20.70	3
		36	18	18.82	18.72	18.76	20.70	3
		36	37	18.82	18.70	18.73	20.70	3
		75	0	18.80	18.76	18.81	20.70	3
	256-QAM	1	0	18.83	18.84	18.89	20.70	3
		1	36	18.81	18.79	18.85	20.70	3
		1	74	18.80	18.82	18.87	20.70	3
		36	0	17.88	17.78	17.85	19.70	4
		36	18	17.82	17.87	17.87	19.70	4
		36	37	17.79	17.82	17.90	19.70	4
		75	0	17.88	17.81	17.74	19.70	4

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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	21.86	21.71	21.74	23.70	0
		1	25	21.82	21.88	21.83	23.70	0
		1	49	21.79	21.80	21.88	23.70	0
		25	0	20.82	20.88	20.79	22.70	1
		25	12	20.89	20.85	20.81	22.70	1
		25	25	20.76	20.90	20.82	22.70	1
		50	0	20.85	20.85	20.79	22.70	1
	16-QAM	1	0	20.86	20.71	20.72	22.70	1
		1	25	20.88	20.82	20.87	22.70	1
		1	49	20.72	20.74	20.75	22.70	1
		25	0	19.77	19.83	19.84	21.70	2
		25	12	19.87	19.72	19.76	21.70	2
		25	25	19.70	19.81	19.86	21.70	2
		50	0	19.83	19.87	19.88	21.70	2
	64-QAM	1	0	19.90	19.84	19.76	21.70	2
		1	25	19.78	19.88	19.76	21.70	2
		1	49	19.76	19.79	19.87	21.70	2
		25	0	18.83	18.74	18.75	20.70	3
		25	12	18.79	18.82	18.73	20.70	3
		25	25	18.82	18.89	18.88	20.70	3
		50	0	18.81	18.82	18.79	20.70	3
	256-QAM	1	0	18.80	18.90	18.75	20.70	3
		1	25	18.77	18.89	18.75	20.70	3
		1	49	18.85	18.71	18.79	20.70	3
		25	0	17.78	17.74	17.75	19.70	4
		25	12	17.79	17.87	17.89	19.70	4
		25	25	17.90	17.85	17.83	19.70	4
		50	0	17.74	17.77	17.89	19.70	4

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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)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	21.72	21.73	21.79	23.70	0
		1	12	21.77	21.74	21.89	23.70	0
		1	24	21.79	21.82	21.89	23.70	0
		12	0	20.75	20.86	20.75	22.70	1
		12	6	20.76	20.85	20.86	22.70	1
		12	13	20.85	20.85	20.87	22.70	1
		25	0	20.77	20.79	20.75	22.70	1
	16-QAM	1	0	20.71	20.86	20.74	22.70	1
		1	12	20.81	20.75	20.80	22.70	1
		1	24	20.78	20.82	20.90	22.70	1
		12	0	19.83	19.85	19.73	21.70	2
		12	6	19.79	19.86	19.88	21.70	2
		12	13	19.77	19.88	19.70	21.70	2
		25	0	19.84	19.88	19.77	21.70	2
	64-QAM	1	0	19.76	19.84	19.72	21.70	2
		1	12	19.75	19.90	19.78	21.70	2
		1	24	19.74	19.72	19.79	21.70	2
		12	0	18.87	18.88	18.82	20.70	3
		12	6	18.81	18.73	18.78	20.70	3
		12	13	18.77	18.87	18.84	20.70	3
		25	0	18.90	18.73	18.74	20.70	3
	256-QAM	1	0	18.71	18.74	18.73	20.70	3
		1	12	18.77	18.82	18.90	20.70	3
		1	24	18.71	18.84	18.79	20.70	3
		12	0	17.83	17.78	17.82	19.70	4
		12	6	17.74	17.84	17.72	19.70	4
		12	13	17.84	17.79	17.71	19.70	4
		25	0	17.75	17.80	17.74	19.70	4

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FD LTE HEAD DSI 8

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	19.31	19.45	19.47	21.00	0
		1	50	19.17	19.23	19.28	21.00	0
		1	99	19.11	19.11	19.14	21.00	0
		50	0	18.22	18.28	18.21	20.00	1
		50	25	18.14	18.27	18.30	20.00	1
		50	50	18.20	18.26	18.19	20.00	1
		100	0	18.13	18.30	18.12	20.00	1
	16-QAM	1	0	18.10	18.15	18.18	20.00	1
		1	50	18.15	18.24	18.16	20.00	1
		1	99	18.12	18.26	18.14	20.00	1
		50	0	17.23	17.23	17.11	19.00	2
		50	25	17.29	17.19	17.26	19.00	2
		50	50	17.17	17.26	17.14	19.00	2
		100	0	17.14	17.12	17.16	19.00	2
	64-QAM	1	0	17.18	17.12	17.27	19.00	2
		1	50	17.16	17.25	17.22	19.00	2
		1	99	17.22	17.28	17.18	19.00	2
		50	0	16.19	16.13	16.23	18.00	3
		50	25	16.18	16.21	16.20	18.00	3
		50	50	16.12	16.24	16.27	18.00	3
		100	0	16.18	16.24	16.11	18.00	3
	256-QAM	1	0	16.16	16.18	16.24	18.00	3
		1	50	16.28	16.29	16.15	18.00	3
		1	99	16.17	16.17	16.28	18.00	3
50		0	15.14	15.12	15.16	17.00	4	
50		25	15.16	15.23	15.30	17.00	4	
50		50	15.16	15.18	15.26	17.00	4	
100		0	15.11	15.21	15.18	17.00	4	

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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)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	19.25	19.26	19.23	21.00	0
		1	36	19.19	19.27	19.13	21.00	0
		1	74	19.15	19.26	19.23	21.00	0
		36	0	18.28	18.25	18.18	20.00	1
		36	18	18.13	18.15	18.12	20.00	1
		36	37	18.26	18.11	18.24	20.00	1
		75	0	18.27	18.14	18.25	20.00	1
	16-QAM	1	0	18.26	18.26	18.12	20.00	1
		1	36	18.27	18.27	18.13	20.00	1
		1	74	18.14	18.17	18.19	20.00	1
		36	0	17.14	17.14	17.19	19.00	2
		36	18	17.11	17.28	17.25	19.00	2
		36	37	17.14	17.28	17.10	19.00	2
		75	0	17.17	17.11	17.27	19.00	2
	64-QAM	1	0	17.21	17.21	17.14	19.00	2
		1	36	17.19	17.23	17.22	19.00	2
		1	74	17.29	17.28	17.28	19.00	2
		36	0	16.15	16.17	16.20	18.00	3
		36	18	16.20	16.15	16.15	18.00	3
		36	37	16.27	16.27	16.22	18.00	3
		75	0	16.17	16.17	16.29	18.00	3
	256-QAM	1	0	16.15	16.21	16.12	18.00	3
		1	36	16.14	16.20	16.16	18.00	3
		1	74	16.20	16.26	16.20	18.00	3
		36	0	15.10	15.16	15.24	17.00	4
		36	18	15.19	15.24	15.12	17.00	4
		36	37	15.20	15.21	15.20	17.00	4
		75	0	15.24	15.25	15.25	17.00	4

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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	19.18	19.16	19.30	21.00	0
		1	25	19.29	19.25	19.16	21.00	0
		1	49	19.29	19.22	19.24	21.00	0
		25	0	18.20	18.23	18.19	20.00	1
		25	12	18.28	18.14	18.13	20.00	1
		25	25	18.17	18.28	18.28	20.00	1
	16-QAM	50	0	18.15	18.29	18.18	20.00	1
		1	0	18.22	18.20	18.22	20.00	1
		1	25	18.23	18.25	18.14	20.00	1
		1	49	18.19	18.19	18.21	20.00	1
		25	0	17.29	17.19	17.27	19.00	2
		25	12	17.16	17.27	17.25	19.00	2
	64-QAM	25	25	17.18	17.10	17.30	19.00	2
		50	0	17.24	17.23	17.20	19.00	2
		1	0	17.30	17.20	17.11	19.00	2
		1	25	17.14	17.21	17.11	19.00	2
		1	49	17.17	17.22	17.11	19.00	2
		25	0	16.19	16.28	16.13	18.00	3
	256-QAM	25	12	16.21	16.24	16.18	18.00	3
		25	25	16.14	16.28	16.14	18.00	3
		50	0	16.17	16.18	16.28	18.00	3
		1	0	16.19	16.21	16.30	18.00	3
		1	25	16.11	16.22	16.22	18.00	3
		1	49	16.23	16.16	16.28	18.00	3
		25	0	15.18	15.18	15.26	17.00	4
		25	12	15.11	15.24	15.22	17.00	4
	25	25	15.22	15.11	15.14	17.00	4	
	50	0	15.15	15.17	15.25	17.00	4	

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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)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	19.16	19.22	19.28	21.00	0
		1	12	19.29	19.26	19.15	21.00	0
		1	24	19.17	19.12	19.17	21.00	0
		12	0	18.25	18.13	18.20	20.00	1
		12	6	18.26	18.20	18.20	20.00	1
		12	13	18.14	18.24	18.11	20.00	1
		25	0	18.23	18.20	18.25	20.00	1
	16-QAM	1	0	18.19	18.20	18.17	20.00	1
		1	12	18.27	18.30	18.23	20.00	1
		1	24	18.18	18.18	18.17	20.00	1
		12	0	17.22	17.26	17.15	19.00	2
		12	6	17.26	17.28	17.20	19.00	2
		12	13	17.22	17.17	17.18	19.00	2
		25	0	17.13	17.22	17.12	19.00	2
	64-QAM	1	0	17.13	17.17	17.28	19.00	2
		1	12	17.23	17.16	17.14	19.00	2
		1	24	17.23	17.15	17.23	19.00	2
		12	0	16.22	16.27	16.26	18.00	3
		12	6	16.28	16.29	16.29	18.00	3
		12	13	16.20	16.27	16.24	18.00	3
		25	0	16.13	16.17	16.15	18.00	3
	256-QAM	1	0	16.11	16.27	16.28	18.00	3
		1	12	16.12	16.23	16.25	18.00	3
		1	24	16.29	16.27	16.22	18.00	3
		12	0	15.17	15.17	15.15	17.00	4
		12	6	15.12	15.26	15.13	17.00	4
		12	13	15.29	15.24	15.14	17.00	4
		25	0	15.24	15.21	15.24	17.00	4

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FD LTE HOTSPOT DSI 13

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	21.95	21.89	21.86	23.70	0
		1	50	21.78	21.75	21.83	23.70	0
		1	99	21.79	21.85	21.81	23.70	0
		50	0	20.90	20.81	20.85	22.70	1
		50	25	20.75	20.89	20.83	22.70	1
		50	50	20.81	20.80	20.78	22.70	1
		100	0	20.80	20.77	20.84	22.70	1
	16-QAM	1	0	20.90	20.75	20.88	22.70	1
		1	50	20.76	20.86	20.84	22.70	1
		1	99	20.86	20.73	20.73	22.70	1
		50	0	19.71	19.85	19.76	21.70	2
		50	25	19.78	19.74	19.80	21.70	2
		50	50	19.83	19.78	19.82	21.70	2
		100	0	19.73	19.77	19.83	21.70	2
	64-QAM	1	0	19.86	19.82	19.78	21.70	2
		1	50	19.88	19.73	19.90	21.70	2
		1	99	19.70	19.82	19.72	21.70	2
		50	0	18.83	18.83	18.76	20.70	3
		50	25	18.88	18.74	18.82	20.70	3
		50	50	18.73	18.88	18.72	20.70	3
		100	0	18.81	18.84	18.78	20.70	3
	256-QAM	1	0	18.72	18.86	18.71	20.70	3
		1	50	18.82	18.81	18.76	20.70	3
		1	99	18.76	18.86	18.86	20.70	3
		50	0	17.84	17.74	17.80	19.70	4
		50	25	17.84	17.84	17.86	19.70	4
		50	50	17.77	17.80	17.90	19.70	4
		100	0	17.78	17.90	17.77	19.70	4

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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)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	21.77	21.76	21.79	23.70	0
		1	36	21.81	21.80	21.77	23.70	0
		1	74	21.81	21.84	21.78	23.70	0
		36	0	20.85	20.83	20.84	22.70	1
		36	18	20.82	20.75	20.84	22.70	1
		36	37	20.76	20.77	20.82	22.70	1
	16-QAM	75	0	20.80	20.76	20.78	22.70	1
		1	0	20.83	20.80	20.81	22.70	1
		1	36	20.79	20.76	20.75	22.70	1
		1	74	20.77	20.81	20.77	22.70	1
		36	0	19.84	19.85	19.78	21.70	2
		36	18	19.79	19.76	19.83	21.70	2
	64-QAM	36	37	19.78	19.77	19.82	21.70	2
		75	0	19.81	19.77	19.84	21.70	2
		1	0	19.80	19.81	19.83	21.70	2
		1	36	19.83	19.75	19.79	21.70	2
		1	74	19.80	19.84	19.76	21.70	2
		36	0	18.80	18.80	18.80	20.70	3
	256-QAM	36	18	18.76	18.81	18.78	20.70	3
		36	37	18.77	18.84	18.79	20.70	3
		75	0	18.76	18.79	18.84	20.70	3
		1	0	18.75	18.79	18.76	20.70	3
		1	36	18.77	18.76	18.77	20.70	3
		1	74	18.79	18.83	18.81	20.70	3
		36	0	17.83	17.76	17.81	19.70	4
		36	18	17.84	17.78	17.83	19.70	4
		36	37	17.79	17.76	17.78	19.70	4
		75	0	17.83	17.79	17.75	19.70	4

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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	21.78	21.77	21.82	23.70	0
		1	25	21.83	21.83	21.76	23.70	0
		1	49	21.77	21.83	21.85	23.70	0
		25	0	20.78	20.81	20.83	22.70	1
		25	12	20.76	20.84	20.84	22.70	1
		25	25	20.78	20.77	20.83	22.70	1
	16-QAM	50	0	20.84	20.80	20.81	22.70	1
		1	0	20.81	20.84	20.76	22.70	1
		1	25	20.77	20.84	20.84	22.70	1
		1	49	20.84	20.76	20.78	22.70	1
		25	0	19.81	19.79	19.79	21.70	2
		25	12	19.77	19.79	19.81	21.70	2
	64-QAM	25	25	19.84	19.79	19.82	21.70	2
		50	0	19.83	19.75	19.82	21.70	2
		1	0	19.80	19.82	19.80	21.70	2
		1	25	19.84	19.83	19.83	21.70	2
		1	49	19.79	19.77	19.80	21.70	2
		25	0	18.77	18.80	18.78	20.70	3
	256-QAM	25	12	18.78	18.83	18.79	20.70	3
		25	25	18.84	18.77	18.78	20.70	3
		50	0	18.79	18.83	18.76	20.70	3
		1	0	18.83	18.83	18.81	20.70	3
		1	25	18.77	18.77	18.78	20.70	3
		1	49	18.81	18.79	18.76	20.70	3
		25	0	17.78	17.83	17.75	19.70	4
		25	12	17.75	17.77	17.82	19.70	4
	25	25	17.75	17.81	17.78	19.70	4	
	50	0	17.84	17.85	17.82	19.70	4	

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BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	21.77	21.80	21.78	23.70	0
		1	12	21.77	21.82	21.83	23.70	0
		1	24	21.83	21.78	21.75	23.70	0
		12	0	20.83	20.79	20.83	22.70	1
		12	6	20.77	20.81	20.84	22.70	1
		12	13	20.76	20.75	20.84	22.70	1
		25	0	20.80	20.78	20.75	22.70	1
	16-QAM	1	0	20.79	20.80	20.84	22.70	1
		1	12	20.82	20.80	20.83	22.70	1
		1	24	20.85	20.83	20.85	22.70	1
		12	0	19.77	19.81	19.77	21.70	2
		12	6	19.81	19.76	19.77	21.70	2
		12	13	19.77	19.84	19.80	21.70	2
		25	0	19.76	19.80	19.82	21.70	2
	64-QAM	1	0	19.75	19.75	19.79	21.70	2
		1	12	19.77	19.77	19.75	21.70	2
		1	24	19.82	19.84	19.81	21.70	2
		12	0	18.80	18.78	18.76	20.70	3
		12	6	18.77	18.75	18.82	20.70	3
		12	13	18.83	18.81	18.83	20.70	3
		25	0	18.85	18.76	18.79	20.70	3
	256-QAM	1	0	18.82	18.77	18.79	20.70	3
		1	12	18.81	18.81	18.77	20.70	3
		1	24	18.79	18.81	18.78	20.70	3
		12	0	17.80	17.79	17.84	19.70	4
		12	6	17.85	17.82	17.81	19.70	4
		12	13	17.83	17.83	17.79	19.70	4
		25	0	17.83	17.80	17.76	19.70	4

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NR FDD BODY DSI 3

5G NR n7_15kHz									
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				502000	507000	512000			
20	Pi/2 BPSK	1	1	22.33	22.54	22.60	24.00	0.0	
		1	53	22.18	22.22	22.25	24.00	0.0	
		1	104	22.25	22.22	22.15	24.00	0.0	
		50	0	21.72	21.68	21.60	23.50	0.5	
		50	28	22.29	22.16	22.25	24.00	0.0	
		50	56	21.75	21.79	21.63	23.50	0.5	
	QPSK	100	0	21.65	21.77	21.72	23.50	0.5	
		1	1	22.27	22.19	22.24	24.00	0.0	
		1	53	22.12	22.16	22.24	24.00	0.0	
		1	104	22.17	22.25	22.17	24.00	0.0	
		50	0	21.15	21.26	21.19	23.00	1.0	
		50	28	22.24	22.27	22.29	24.00	0.0	
	16-QAM	50	56	22.15	22.21	22.29	23.00	1.0	
		100	0	22.19	22.25	22.10	23.00	1.0	
		16-QAM	1	1	22.24	22.13	22.17	23.00	1.0
		64QAM	1	1	21.23	21.10	21.28	21.50	2.5
256-QAM	1	1	19.43	19.36	19.46	19.50	4.5		
5G NR n7_15kHz									
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				2507.5	2535	2562.5			
Channel				501500	507000	512500			
15	Pi/2 BPSK	1	1	22.13	22.27	22.26	24.00	0.0	
5G NR n7_15kHz									
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				501000	507000	513000			
10	Pi/2 BPSK	1	1	22.12	22.22	22.15	24.00	0.0	

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5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				500500	507000	513500		
5	Pi/2 BPSK	1	1	22.19	22.16	22.15	24.00	0.0

NR FDD HEAD DSI 8

5G NR n7_15kHz								
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				502000	507000	512000		
20	Pi/2 BPSK	1	1	19.72	19.88	19.97	20.00	0.0
		1	53	19.63	19.61	19.69	20.00	0.0
		1	104	19.60	19.70	19.54	20.00	0.0
		50	0	19.33	19.38	19.44	19.50	0.5
		50	28	19.59	19.52	19.55	20.00	0.0
		50	56	19.32	19.39	19.49	19.50	0.5
		100	0	19.42	19.44	19.38	19.50	0.5
	QPSK	1	1	19.53	19.50	19.61	20.00	0.0
		1	53	19.57	19.56	19.52	20.00	0.0
		1	104	19.55	19.54	19.59	20.00	0.0
		50	0	18.88	19.00	18.81	19.00	1.0
		50	28	19.65	19.55	19.50	20.00	0.0
		50	56	18.86	18.89	19.00	19.00	1.0
		100	0	18.98	18.82	18.92	19.00	1.0
	16-QAM	1	1	18.97	18.89	18.87	19.00	1.0
	64QAM	1	1	17.44	17.36	17.49	17.50	2.5
	256-QAM	1	1	15.37	15.34	15.45	15.50	4.5

5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				501500	507000	512500		
15	Pi/2 BPSK	1	1	19.61	19.70	19.53	20.00	0.0

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5G NR n7_15kHz								
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				501000	507000	513000		
10	Pi/2 BPSK	1	1	19.60	19.62	19.49	20.00	0.0

5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				500500	507000	513500		
5	Pi/2 BPSK	1	1	19.56	19.55	19.50	20.00	0.0

NR_FDD_HOTSPOT_DSI_13

5G NR n7_15kHz								
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				502000	507000	512000		
20	Pi/2 BPSK	1	1	22.33	22.54	22.60	24.00	0.0
		1	53	22.10	22.24	22.29	24.00	0.0
		1	104	22.09	22.21	22.34	24.00	0.0
		50	0	22.11	22.25	22.34	23.50	0.5
		50	28	22.10	22.25	22.34	24.00	0.0
		50	56	22.06	22.23	22.32	23.50	0.5
		100	0	22.07	22.16	22.31	23.50	0.5
	QPSK	1	1	22.15	22.17	22.26	24.00	0.0
		1	53	22.14	22.18	22.29	24.00	0.0
		1	104	22.06	22.22	22.35	24.00	0.0
		50	0	22.11	22.18	22.29	23.00	1.0
		50	28	22.12	22.15	22.34	24.00	0.0
		50	56	22.13	22.22	22.32	23.00	1.0
		100	0	22.06	22.23	22.30	23.00	1.0
	16-QAM	1	1	21.11	21.19	21.31	23.00	1.0
	64QAM	1	1	21.48	21.36	21.34	21.50	2.5
	256-QAM	1	1	19.43	19.43	19.34	19.50	4.5

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5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				501500	507000	512500		
15	Pi/2 BPSK	1	1	22.06	22.19	22.34	24.00	0.0
5G NR n7_15kHz								
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				501000	507000	513000		
10	Pi/2 BPSK	1	1	22.12	22.23	22.32	24.00	0.0
5G NR n7_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				500500	507000	513500		
5	Pi/2 BPSK	1	1	22.12	22.15	22.26	24.00	0.0

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NR TDD BODY DSI 3

5G NR n38_30kHz									
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				516000	519000	522000			
20	Pi/2 BPSK	1	1	23.40	23.22	23.21	25.00	0.0	
		1	53	23.14	23.19	23.03	25.00	0.0	
		1	104	23.12	23.12	23.02	25.00	0.0	
		50	0	22.67	22.51	22.58	24.50	0.5	
		50	28	23.01	23.19	23.13	25.00	0.0	
		50	56	22.68	22.51	22.52	24.50	0.5	
	QPSK	100	0	22.63	22.69	22.59	24.50	0.5	
		1	1	23.14	23.04	23.19	25.00	0.0	
		1	53	23.06	23.05	23.14	25.00	0.0	
		1	104	23.12	23.17	23.09	25.00	0.0	
		50	0	22.16	22.02	22.14	24.00	1.0	
		50	28	23.19	23.05	23.17	25.00	0.0	
	16-QAM	50	56	22.06	22.03	22.17	24.00	1.0	
		100	0	22.16	22.20	22.17	24.00	1.0	
		16-QAM	1	1	22.01	22.06	22.18	24.00	1.0
		64QAM	1	1	22.19	22.21	22.23	22.50	2.5
256-QAM	1	1	20.49	20.43	20.45	20.50	4.5		

5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	23.03	23.02	23.06	25.00	0.0

5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	23.04	23.10	23.17	25.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	23.26	23.43	23.34	25.00	0.0
		1	137	23.03	23.08	23.15	25.00	0.0
		1	271	23.02	23.10	23.04	25.00	0.0
		135	0	22.67	22.58	22.58	24.50	0.5
		135	69	23.15	23.02	23.08	25.00	0.0
		135	138	22.58	22.51	22.51	24.50	0.5
		270	0	22.56	22.59	22.58	24.50	0.5
	QPSK	1	1	23.04	23.13	23.06	25.00	0.0
		1	137	23.12	23.06	23.04	25.00	0.0
		1	271	23.02	23.09	23.02	25.00	0.0
		135	0	22.13	22.20	22.14	24.00	1.0
		135	69	23.14	23.02	23.02	25.00	0.0
		135	138	22.07	22.12	22.03	24.00	1.0
		270	0	22.09	22.16	22.11	24.00	1.0
	16-QAM	1	1	22.11	22.12	22.11	24.00	1.0
	64QAM	1	1	22.19	22.18	22.17	22.50	2.5
	256-QAM	1	1	20.46	20.46	20.40	20.50	4.5
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	23.16	23.17	23.03	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	23.10	23.00	23.17	25.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	23.12	23.12	23.13	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	23.14	23.02	23.11	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	23.03	23.03	23.09	25.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	23.14	23.11	23.04	25.00	0.0

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NR TDD HEAD DSI 8

5G NR n38_30kHz									
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				516000	519000	522000			
20	Pi/2 BPSK	1	1	19.88	19.73	20.00	20.00	0.0	
		1	53	19.60	19.55	19.55	20.00	0.0	
		1	104	19.66	19.62	19.68	20.00	0.0	
		50	0	19.14	19.08	19.12	19.50	0.5	
		50	28	19.71	19.64	19.58	20.00	0.0	
		50	56	19.19	19.17	19.10	19.50	0.5	
	QPSK	100	0	19.22	19.07	19.04	19.50	0.5	
		1	1	19.65	19.60	19.71	20.00	0.0	
		1	53	19.58	19.71	19.70	20.00	0.0	
		1	104	19.72	19.63	19.69	20.00	0.0	
		50	0	18.69	18.64	18.58	19.00	1.0	
		50	28	19.55	19.55	19.60	20.00	0.0	
	16-QAM	50	56	18.59	18.69	18.57	19.00	1.0	
		100	0	18.64	18.58	18.62	19.00	1.0	
		16-QAM	1	1	18.62	18.66	18.62	19.00	1.0
		64QAM	1	1	17.20	17.13	17.17	17.50	2.5
256-QAM	1	1	15.10	15.10	15.15	15.50	4.5		

5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	19.50	19.55	19.53	20.00	0.0

5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	19.45	19.65	19.59	20.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	19.90	20.00	19.93	20.00	0.0
		1	137	19.68	19.66	19.61	20.00	0.0
		1	271	19.56	19.62	19.71	20.00	0.0
		135	0	19.08	19.21	19.09	19.50	0.5
		135	69	19.66	19.62	19.70	20.00	0.0
		135	138	19.08	19.04	19.16	19.50	0.5
		270	0	19.21	19.19	19.17	19.50	0.5
	QPSK	1	1	19.57	19.67	19.60	20.00	0.0
		1	137	19.55	19.69	19.56	20.00	0.0
		1	271	19.59	19.53	19.54	20.00	0.0
		135	0	18.57	18.69	18.72	19.00	1.0
		135	69	19.67	19.66	19.71	20.00	0.0
		135	138	18.69	18.55	18.56	19.00	1.0
		270	0	18.55	18.63	18.62	19.00	1.0
	16-QAM	1	1	18.66	18.67	18.65	19.00	1.0
64QAM	1	1	17.20	17.06	17.12	17.50	2.5	
256-QAM	1	1	15.16	15.20	15.16	15.50	4.5	
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	19.14	19.20	19.06	20.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	19.08	19.06	19.14	20.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	19.07	19.09	19.13	20.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	19.55	19.67	19.58	20.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	19.61	19.53	19.57	20.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	19.68	19.56	19.68	20.00	0.0

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NR TDD HOTSPOT DSI 13

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	19.88	19.73	20.00	20.00	0.0
		1	53	19.69	19.52	19.53	20.00	0.0
		1	104	19.55	19.70	19.60	20.00	0.0
		50	0	19.02	19.19	19.15	19.50	0.5
		50	28	19.67	19.57	19.53	20.00	0.0
		50	56	19.17	19.07	19.01	19.50	0.5
		100	0	19.07	19.02	19.00	19.50	0.5
	QPSK	1	1	19.67	19.55	19.59	20.00	0.0
		1	53	19.61	19.58	19.63	20.00	0.0
		1	104	19.62	19.66	19.67	20.00	0.0
		50	0	18.68	18.59	18.57	19.00	1.0
		50	28	19.55	19.63	19.63	20.00	0.0
		50	56	18.52	18.68	18.64	19.00	1.0
		100	0	18.56	18.70	18.62	19.00	1.0
	16-QAM	1	1	18.70	18.74	18.51	19.00	1.0
	64QAM	1	1	17.18	17.16	17.03	17.50	2.5
	256-QAM	1	1	15.15	15.19	15.01	15.50	4.5
5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	19.60	19.51	19.68	20.00	0.0
5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	19.55	19.53	19.56	20.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	19.90	20.00	19.93	20.00	0.0
		1	137	19.72	19.76	19.69	20.00	0.0
		1	271	19.70	19.82	19.78	20.00	0.0
		135	0	19.19	19.22	19.20	19.50	0.5
		135	69	19.76	19.75	19.70	20.00	0.0
		135	138	19.18	19.23	19.35	19.50	0.5
		270	0	19.30	19.18	19.26	19.50	0.5
	QPSK	1	1	19.71	19.75	19.68	20.00	0.0
		1	137	19.77	19.68	19.66	20.00	0.0
		1	271	19.78	19.84	19.75	20.00	0.0
		135	0	18.75	18.84	18.79	19.00	1.0
		135	69	19.82	19.83	19.74	20.00	0.0
		135	138	18.77	18.84	18.75	19.00	1.0
		270	0	18.80	18.76	18.75	19.00	1.0
	16-QAM	1	1	18.67	18.75	18.85	19.00	1.0
	64QAM	1	1	17.17	17.29	17.34	17.50	2.5
	256-QAM	1	1	15.22	15.17	15.24	15.50	4.5
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	19.81	19.67	19.66	20.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	19.69	19.81	19.77	20.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	19.67	19.75	19.74	20.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	19.80	19.67	19.85	20.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	19.71	19.84	19.79	20.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	19.76	19.70	19.72	20.00	0.0

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TD LTE BODY DSI 3

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	23.03	23.12	23.11	24.70	0
		1	50	22.78	22.81	22.72	24.70	0
		1	99	22.88	22.89	22.82	24.70	0
		50	0	21.84	21.85	21.82	23.70	1
		50	25	21.79	21.71	21.83	23.70	1
		50	50	21.77	21.86	21.81	23.70	1
		100	0	21.79	21.84	21.77	23.70	1
	16-QAM	1	0	21.78	21.79	21.78	23.70	1
		1	50	21.90	21.73	21.86	23.70	1
		1	99	21.88	21.82	21.77	23.70	1
		50	0	20.85	20.77	20.86	22.70	2
		50	25	20.89	20.81	20.84	22.70	2
		50	50	20.88	20.71	20.88	22.70	2
		100	0	20.74	20.74	20.76	22.70	2
	64-QAM	1	0	20.74	20.71	20.87	22.70	2
		1	50	20.82	20.89	20.86	22.70	2
		1	99	20.84	20.81	20.74	22.70	2
		50	0	19.84	19.76	19.80	21.70	3
		50	25	19.79	19.71	19.75	21.70	3
		50	50	19.80	19.75	19.79	21.70	3
		100	0	19.90	19.75	19.87	21.70	3
	256-QAM	1	0	19.79	19.70	19.75	21.70	3
		1	50	19.85	19.89	19.86	21.70	3
		1	99	19.82	19.80	19.88	21.70	3
		50	0	18.87	18.81	18.75	20.70	4
		50	25	18.87	18.72	18.77	20.70	4
		50	50	18.74	18.82	18.80	20.70	4
		100	0	18.82	18.87	18.76	20.70	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.75	22.72	22.84	24.70	0
		1	36	22.88	22.81	22.73	24.70	0
		1	74	22.85	22.88	22.81	24.70	0
		36	0	21.84	21.83	21.78	23.70	1
		36	18	21.82	21.81	21.71	23.70	1
		36	37	21.77	21.79	21.78	23.70	1
		75	0	21.83	21.79	21.74	23.70	1
	16-QAM	1	0	21.76	21.76	21.89	23.70	1
		1	36	21.86	21.78	21.76	23.70	1
		1	74	21.84	21.88	21.79	23.70	1
		36	0	20.84	20.89	20.87	22.70	2
		36	18	20.77	20.83	20.72	22.70	2
		36	37	20.75	20.77	20.81	22.70	2
		75	0	20.72	20.74	20.85	22.70	2
	64-QAM	1	0	20.74	20.88	20.73	22.70	2
		1	36	20.79	20.85	20.80	22.70	2
		1	74	20.87	20.84	20.82	22.70	2
		36	0	19.77	19.74	19.80	21.70	3
		36	18	19.71	19.75	19.79	21.70	3
		36	37	19.89	19.82	19.83	21.70	3
		75	0	19.84	19.80	19.83	21.70	3
	256-QAM	1	0	19.81	19.88	19.75	21.70	3
		1	36	19.82	19.77	19.88	21.70	3
		1	74	19.86	19.88	19.71	21.70	3
		36	0	18.85	18.82	18.79	20.70	4
		36	18	18.80	18.74	18.89	20.70	4
		36	37	18.86	18.90	18.89	20.70	4
		75	0	18.77	18.85	18.73	20.70	4

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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	22.78	22.78	22.86	24.70	0
		1	25	22.71	22.88	22.88	24.70	0
		1	49	22.74	22.82	22.81	24.70	0
		25	0	21.73	21.80	21.88	23.70	1
		25	12	21.74	21.71	21.73	23.70	1
		25	25	21.80	21.88	21.71	23.70	1
	16-QAM	50	0	21.88	21.73	21.90	23.70	1
		1	0	21.83	21.83	21.86	23.70	1
		1	25	21.78	21.81	21.82	23.70	1
		1	49	21.78	21.84	21.82	23.70	1
		25	0	20.77	20.76	20.79	22.70	2
		25	12	20.82	20.80	20.76	22.70	2
	64-QAM	25	25	20.88	20.79	20.72	22.70	2
		50	0	20.85	20.74	20.85	22.70	2
		1	0	20.88	20.82	20.80	22.70	2
		1	25	20.73	20.83	20.70	22.70	2
		1	49	20.82	20.70	20.77	22.70	2
		25	0	19.70	19.78	19.87	21.70	3
	256-QAM	25	12	19.71	19.72	19.77	21.70	3
		25	25	19.87	19.72	19.74	21.70	3
		50	0	19.81	19.76	19.87	21.70	3
		1	0	19.82	19.75	19.78	21.70	3
		1	25	19.90	19.72	19.70	21.70	3
		1	49	19.81	19.77	19.89	21.70	3
		25	0	18.84	18.85	18.79	20.70	4
		25	12	18.84	18.90	18.84	20.70	4
	25	25	18.72	18.84	18.74	20.70	4	
			50	0	18.88	18.80	18.75	20.70

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	22.76	22.70	22.86	24.70	0
		1	12	22.84	22.84	22.72	24.70	0
		1	24	22.72	22.89	22.77	24.70	0
		12	0	21.82	21.87	21.81	23.70	1
		12	6	21.80	21.90	21.70	23.70	1
		12	13	21.73	21.72	21.84	23.70	1
		25	0	21.74	21.79	21.71	23.70	1
	16-QAM	1	0	21.80	21.87	21.72	23.70	1
		1	12	21.82	21.90	21.88	23.70	1
		1	24	21.80	21.85	21.84	23.70	1
		12	0	20.84	20.86	20.78	22.70	2
		12	6	20.85	20.85	20.75	22.70	2
		12	13	20.72	20.82	20.86	22.70	2
		25	0	20.70	20.86	20.72	22.70	2
	64-QAM	1	0	20.71	20.81	20.77	22.70	2
		1	12	20.83	20.70	20.71	22.70	2
		1	24	20.90	20.79	20.81	22.70	2
		12	0	19.81	19.82	19.78	21.70	3
		12	6	19.82	19.72	19.76	21.70	3
		12	13	19.86	19.74	19.80	21.70	3
		25	0	19.84	19.80	19.84	21.70	3
	256-QAM	1	0	19.76	19.76	19.86	21.70	3
		1	12	19.85	19.76	19.89	21.70	3
		1	24	19.88	19.82	19.82	21.70	3
		12	0	18.88	18.79	18.84	20.70	4
		12	6	18.77	18.76	18.83	20.70	4
		12	13	18.74	18.89	18.79	20.70	4
		25	0	18.81	18.76	18.79	20.70	4

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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	22.91	23.21	22.94	23.03	23.01	24.70	0
		1	50	22.79	22.77	22.87	22.77	22.85	24.70	0
		1	99	22.88	22.78	22.75	22.83	22.83	24.70	0
		50	0	21.77	21.80	21.77	21.71	21.78	23.70	1
		50	25	21.79	21.85	21.85	21.72	21.76	23.70	1
		50	50	21.84	21.87	21.75	21.80	21.88	23.70	1
		100	0	21.81	21.89	21.79	21.77	21.80	23.70	1
	16-QAM	1	0	21.72	21.77	21.71	21.80	21.73	23.70	1
		1	50	21.90	21.84	21.84	21.79	21.82	23.70	1
		1	99	21.80	21.79	21.82	21.86	21.81	23.70	1
		50	0	20.84	20.75	20.83	20.85	20.89	22.70	2
		50	25	20.70	20.76	20.80	20.71	20.81	22.70	2
		50	50	20.72	20.84	20.80	20.75	20.71	22.70	2
		100	0	20.75	20.85	20.85	20.79	20.78	22.70	2
	64-QAM	1	0	20.86	20.82	20.71	20.87	20.90	22.70	2
		1	50	20.77	20.87	20.78	20.83	20.87	22.70	2
		1	99	20.87	20.87	20.88	20.88	20.85	22.70	2
		50	0	19.87	19.74	19.85	19.86	19.88	21.70	3
		50	25	19.77	19.80	19.82	19.76	19.84	21.70	3
		50	50	19.80	19.71	19.82	19.71	19.83	21.70	3
		100	0	19.79	19.89	19.83	19.85	19.89	21.70	3
	256-QAM	1	0	19.82	19.88	19.79	19.79	19.83	21.70	3
		1	50	19.84	19.82	19.74	19.80	19.78	21.70	3
		1	99	19.77	19.80	19.79	19.85	19.82	21.70	3
50		0	18.85	18.80	18.74	18.71	18.82	20.70	4	
50		25	18.80	18.74	18.86	18.80	18.78	20.70	4	
50		50	18.88	18.83	18.84	18.76	18.73	20.70	4	
100		0	18.88	18.76	18.77	18.85	18.89	20.70	4	

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	22.87	22.73	22.79	22.90	22.82	24.70	0
		1	36	22.78	22.84	22.82	22.88	22.84	24.70	0
		1	74	22.78	22.70	22.72	22.82	22.86	24.70	0
		36	0	21.71	21.77	21.87	21.73	21.75	23.70	1
		36	18	21.81	21.71	21.87	21.86	21.79	23.70	1
		36	37	21.90	21.81	21.72	21.78	21.80	23.70	1
		75	0	21.71	21.71	21.83	21.73	21.74	23.70	1
	16-QAM	1	0	21.82	21.75	21.87	21.86	21.72	23.70	1
		1	36	21.82	21.85	21.77	21.86	21.86	23.70	1
		1	74	21.90	21.72	21.86	21.89	21.89	23.70	1
		36	0	20.70	20.77	20.90	20.76	20.81	22.70	2
		36	18	20.76	20.75	20.71	20.86	20.84	22.70	2
		36	37	20.82	20.75	20.82	20.88	20.77	22.70	2
		75	0	20.77	20.84	20.85	20.85	20.73	22.70	2
	64-QAM	1	0	20.85	20.84	20.79	20.72	20.74	22.70	2
		1	36	20.75	20.82	20.76	20.80	20.75	22.70	2
		1	74	20.79	20.73	20.81	20.73	20.88	22.70	2
		36	0	19.75	19.71	19.79	19.80	19.82	21.70	3
		36	18	19.86	19.77	19.77	19.82	19.74	21.70	3
		36	37	19.74	19.88	19.70	19.71	19.88	21.70	3
		75	0	19.83	19.83	19.70	19.81	19.89	21.70	3
	256-QAM	1	0	19.75	19.76	19.85	19.87	19.90	21.70	3
		1	36	19.82	19.86	19.76	19.85	19.77	21.70	3
		1	74	19.70	19.76	19.87	19.75	19.73	21.70	3
36		0	18.79	18.84	18.76	18.71	18.83	20.70	4	
36		18	18.77	18.73	18.72	18.80	18.82	20.70	4	
36		37	18.87	18.90	18.78	18.80	18.90	20.70	4	
75		0	18.84	18.74	18.89	18.70	18.72	20.70	4	

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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	22.78	22.84	22.75	22.89	22.71	24.70	0
		1	25	22.85	22.89	22.72	22.83	22.80	24.70	0
		1	49	22.71	22.73	22.87	22.84	22.80	24.70	0
		25	0	21.79	21.77	21.77	21.84	21.83	23.70	1
		25	12	21.82	21.77	21.73	21.88	21.77	23.70	1
		25	25	21.89	21.77	21.75	21.88	21.70	23.70	1
	16-QAM	50	0	21.82	21.73	21.72	21.90	21.88	23.70	1
		1	0	21.70	21.71	21.85	21.78	21.72	23.70	1
		1	25	21.83	21.88	21.90	21.88	21.71	23.70	1
		1	49	21.76	21.87	21.74	21.71	21.74	23.70	1
		25	0	20.75	20.81	20.79	20.87	20.74	22.70	2
		25	12	20.78	20.74	20.74	20.86	20.82	22.70	2
	64-QAM	25	25	20.85	20.81	20.75	20.85	20.89	22.70	2
		50	0	20.81	20.87	20.90	20.82	20.80	22.70	2
		1	0	20.86	20.80	20.79	20.85	20.72	22.70	2
		1	25	20.85	20.84	20.73	20.72	20.82	22.70	2
		1	49	20.88	20.83	20.75	20.74	20.76	22.70	2
		25	0	19.85	19.88	19.82	19.74	19.83	21.70	3
	256-QAM	25	12	19.73	19.72	19.86	19.76	19.83	21.70	3
		25	25	19.72	19.70	19.76	19.71	19.89	21.70	3
		50	0	19.78	19.88	19.83	19.88	19.86	21.70	3
		1	0	19.71	19.70	19.71	19.76	19.82	21.70	3
		1	25	19.77	19.77	19.85	19.83	19.71	21.70	3
		1	49	19.78	19.87	19.90	19.85	19.87	21.70	3
	25	0	18.86	18.80	18.79	18.70	18.76	20.70	4	
	25	12	18.73	18.76	18.71	18.76	18.90	20.70	4	
	25	25	18.88	18.79	18.77	18.76	18.89	20.70	4	
	50	0	18.81	18.81	18.76	18.86	18.88	20.70	4	

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	22.71	22.78	22.82	22.77	22.88	24.70	0
		1	12	22.88	22.79	22.86	22.70	22.88	24.70	0
		1	24	22.86	22.72	22.73	22.79	22.90	24.70	0
		12	0	21.84	21.72	21.73	21.79	21.85	23.70	1
		12	6	21.82	21.72	21.83	21.82	21.80	23.70	1
		12	13	21.78	21.82	21.80	21.81	21.74	23.70	1
	16-QAM	25	0	21.75	21.84	21.71	21.85	21.83	23.70	1
		1	0	21.75	21.89	21.82	21.77	21.80	23.70	1
		1	12	21.77	21.89	21.76	21.89	21.84	23.70	1
		1	24	21.87	21.75	21.86	21.83	21.80	23.70	1
		12	0	20.86	20.87	20.78	20.75	20.73	22.70	2
		12	6	20.82	20.81	20.87	20.87	20.78	22.70	2
	64-QAM	12	13	20.72	20.73	20.85	20.89	20.84	22.70	2
		25	0	20.90	20.77	20.85	20.78	20.78	22.70	2
		1	0	20.74	20.71	20.73	20.88	20.86	22.70	2
		1	12	20.85	20.84	20.81	20.75	20.77	22.70	2
		1	24	20.78	20.81	20.73	20.77	20.80	22.70	2
		12	0	19.80	19.75	19.83	19.86	19.86	21.70	3
	256-QAM	12	6	19.77	19.84	19.87	19.89	19.79	21.70	3
		12	13	19.81	19.90	19.89	19.82	19.78	21.70	3
		25	0	19.73	19.76	19.82	19.79	19.84	21.70	3
		1	0	19.75	19.78	19.79	19.82	19.71	21.70	3
		1	12	19.71	19.88	19.84	19.82	19.73	21.70	3
		1	24	19.85	19.74	19.87	19.85	19.89	21.70	3
	12	0	18.75	18.72	18.75	18.82	18.74	20.70	4	
	12	6	18.70	18.80	18.81	18.78	18.81	20.70	4	
	12	13	18.88	18.73	18.83	18.73	18.90	20.70	4	
	25	0	18.80	18.80	18.85	18.87	18.71	20.70	4	

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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)				2580	2595	2610		
Channel				37850	38000	38150		
20	QPSK	1	0	21.49	21.54	21.52	23.20	0
		1	50	21.39	21.42	21.41	23.20	0
		1	99	21.38	21.41	21.30	23.20	0
		50	0	20.42	20.43	20.47	22.20	1
		50	25	20.44	20.31	20.33	22.20	1
		50	50	20.31	20.41	20.31	22.20	1
		100	0	20.45	20.43	20.44	22.20	1
	16-QAM	1	0	20.38	20.34	20.35	22.20	1
		1	50	20.50	20.42	20.33	22.20	1
		1	99	20.39	20.40	20.35	22.20	1
		50	0	19.43	19.42	19.47	21.20	2
		50	25	19.41	19.47	19.49	21.20	2
		50	50	19.47	19.41	19.35	21.20	2
		100	0	19.31	19.46	19.43	21.20	2
	64-QAM	1	0	19.38	19.46	19.40	21.20	2
		1	50	19.42	19.36	19.46	21.20	2
		1	99	19.31	19.45	19.46	21.20	2
		50	0	18.45	18.31	18.42	20.20	3
		50	25	18.48	18.46	18.41	20.20	3
		50	50	18.44	18.37	18.47	20.20	3
		100	0	18.32	18.46	18.37	20.20	3
	256-QAM	1	0	18.41	18.39	18.49	20.20	3
		1	50	18.42	18.48	18.42	20.20	3
		1	99	18.40	18.47	18.45	20.20	3
		50	0	17.40	17.45	17.42	19.20	4
		50	25	17.34	17.32	17.37	19.20	4
		50	50	17.37	17.33	17.31	19.20	4
		100	0	17.42	17.45	17.39	19.20	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	21.33	21.30	21.48	23.20	0
		1	36	21.34	21.39	21.45	23.20	0
		1	74	21.38	21.31	21.49	23.20	0
		36	0	20.44	20.41	20.35	22.20	1
		36	18	20.42	20.44	20.43	22.20	1
		36	37	20.42	20.48	20.37	22.20	1
		75	0	20.45	20.48	20.43	22.20	1
	16-QAM	1	0	20.48	20.35	20.45	22.20	1
		1	36	20.37	20.45	20.43	22.20	1
		1	74	20.33	20.31	20.45	22.20	1
		36	0	19.34	19.46	19.30	21.20	2
		36	18	19.31	19.44	19.46	21.20	2
		36	37	19.41	19.32	19.43	21.20	2
		75	0	19.49	19.35	19.32	21.20	2
	64-QAM	1	0	19.38	19.31	19.47	21.20	2
		1	36	19.38	19.37	19.50	21.20	2
		1	74	19.34	19.40	19.48	21.20	2
		36	0	18.45	18.46	18.44	20.20	3
		36	18	18.31	18.44	18.32	20.20	3
		36	37	18.45	18.35	18.35	20.20	3
		75	0	18.44	18.35	18.45	20.20	3
	256-QAM	1	0	18.33	18.38	18.32	20.20	3
		1	36	18.35	18.39	18.31	20.20	3
		1	74	18.34	18.40	18.31	20.20	3
		36	0	17.30	17.41	17.47	19.20	4
		36	18	17.48	17.35	17.49	19.20	4
		36	37	17.41	17.36	17.31	19.20	4
		75	0	17.36	17.41	17.44	19.20	4

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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	21.49	21.40	21.41	23.20	0
		1	25	21.36	21.36	21.40	23.20	0
		1	49	21.41	21.41	21.34	23.20	0
		25	0	20.36	20.31	20.42	22.20	1
		25	12	20.35	20.47	20.31	22.20	1
		25	25	20.47	20.39	20.49	22.20	1
		50	0	20.48	20.41	20.43	22.20	1
	16-QAM	1	0	20.37	20.37	20.44	22.20	1
		1	25	20.31	20.41	20.33	22.20	1
		1	49	20.43	20.50	20.45	22.20	1
		25	0	19.35	19.33	19.46	21.20	2
		25	12	19.42	19.31	19.48	21.20	2
		25	25	19.35	19.36	19.42	21.20	2
		50	0	19.45	19.31	19.38	21.20	2
	64-QAM	1	0	19.39	19.39	19.42	21.20	2
		1	25	19.48	19.44	19.49	21.20	2
		1	49	19.47	19.45	19.48	21.20	2
		25	0	18.35	18.48	18.45	20.20	3
		25	12	18.35	18.40	18.41	20.20	3
		25	25	18.47	18.47	18.44	20.20	3
		50	0	18.40	18.34	18.46	20.20	3
	256-QAM	1	0	18.38	18.36	18.47	20.20	3
		1	25	18.34	18.42	18.49	20.20	3
		1	49	18.36	18.35	18.32	20.20	3
		25	0	17.35	17.43	17.39	19.20	4
		25	12	17.45	17.35	17.43	19.20	4
		25	25	17.30	17.39	17.33	19.20	4
		50	0	17.44	17.44	17.47	19.20	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	21.49	21.45	21.42	23.20	0
		1	12	21.40	21.37	21.42	23.20	0
		1	24	21.41	21.34	21.47	23.20	0
		12	0	20.39	20.32	20.47	22.20	1
		12	6	20.40	20.43	20.44	22.20	1
		12	13	20.49	20.40	20.34	22.20	1
		25	0	20.49	20.34	20.30	22.20	1
	16-QAM	1	0	20.36	20.42	20.41	22.20	1
		1	12	20.48	20.48	20.33	22.20	1
		1	24	20.45	20.48	20.47	22.20	1
		12	0	19.40	19.43	19.33	21.20	2
		12	6	19.31	19.31	19.42	21.20	2
		12	13	19.39	19.41	19.32	21.20	2
		25	0	19.43	19.34	19.32	21.20	2
	64-QAM	1	0	19.32	19.34	19.48	21.20	2
		1	12	19.40	19.46	19.41	21.20	2
		1	24	19.44	19.44	19.41	21.20	2
		12	0	18.36	18.39	18.35	20.20	3
		12	6	18.42	18.46	18.49	20.20	3
		12	13	18.36	18.35	18.45	20.20	3
		25	0	18.46	18.34	18.42	20.20	3
	256-QAM	1	0	18.40	18.31	18.35	20.20	3
		1	12	18.47	18.30	18.47	20.20	3
		1	24	18.38	18.44	18.48	20.20	3
		12	0	17.36	17.47	17.48	19.20	4
		12	6	17.41	17.38	17.41	19.20	4
		12	13	17.31	17.38	17.42	19.20	4
		25	0	17.32	17.45	17.31	19.20	4

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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	21.54	21.80	21.57	21.51	21.62	23.20	0
		1	50	21.36	21.49	21.42	21.42	21.43	23.20	0
		1	99	21.46	21.48	21.49	21.41	21.43	23.20	0
		50	0	20.45	20.43	20.36	20.42	20.45	22.20	1
		50	25	20.43	20.50	20.38	20.38	20.30	22.20	1
		50	50	20.42	20.37	20.36	20.33	20.42	22.20	1
	16-QAM	100	0	20.31	20.47	20.30	20.38	20.37	22.20	1
		1	0	20.41	20.44	20.44	20.33	20.48	22.20	1
		1	50	20.35	20.36	20.39	20.47	20.49	22.20	1
		1	99	20.43	20.44	20.34	20.42	20.31	22.20	1
		50	0	19.38	19.41	19.48	19.48	19.37	21.20	2
		50	25	19.35	19.45	19.40	19.47	19.37	21.20	2
	64-QAM	50	50	19.36	19.42	19.31	19.37	19.42	21.20	2
		100	0	19.44	19.37	19.39	19.49	19.32	21.20	2
		1	0	19.32	19.36	19.35	19.39	19.43	21.20	2
		1	50	19.40	19.44	19.48	19.41	19.39	21.20	2
		1	99	19.45	19.30	19.48	19.34	19.48	21.20	2
		50	0	18.48	18.42	18.44	18.35	18.43	20.20	3
	256-QAM	50	25	18.42	18.36	18.50	18.48	18.36	20.20	3
		50	50	18.44	18.49	18.41	18.37	18.42	20.20	3
		100	0	18.42	18.32	18.32	18.33	18.30	20.20	3
		1	0	18.30	18.31	18.46	18.37	18.44	20.20	3
		1	50	18.43	18.35	18.33	18.39	18.39	20.20	3
		1	99	18.41	18.36	18.33	18.49	18.46	20.20	3
	50	0	17.37	17.48	17.49	17.41	17.42	19.20	4	
	50	25	17.45	17.43	17.41	17.35	17.47	19.20	4	
	50	50	17.50	17.37	17.41	17.33	17.41	19.20	4	
	100	0	17.43	17.36	17.45	17.38	17.32	19.20	4	

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LTE Band 41										
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Frequency (MHz)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	21.41	21.31	21.31	21.44	21.37	23.20	0
		1	36	21.32	21.30	21.49	21.45	21.32	23.20	0
		1	74	21.40	21.38	21.39	21.36	21.39	23.20	0
		36	0	20.33	20.45	20.45	20.41	20.35	22.20	1
		36	18	20.46	20.33	20.48	20.35	20.39	22.20	1
		36	37	20.31	20.44	20.35	20.39	20.35	22.20	1
		75	0	20.44	20.31	20.36	20.46	20.39	22.20	1
	16-QAM	1	0	20.37	20.40	20.30	20.30	20.40	22.20	1
		1	36	20.42	20.39	20.36	20.38	20.38	22.20	1
		1	74	20.47	20.48	20.47	20.33	20.45	22.20	1
		36	0	19.33	19.42	19.45	19.44	19.45	21.20	2
		36	18	19.38	19.34	19.49	19.36	19.35	21.20	2
		36	37	19.36	19.38	19.49	19.33	19.37	21.20	2
		75	0	19.33	19.36	19.44	19.32	19.33	21.20	2
	64-QAM	1	0	19.37	19.45	19.39	19.46	19.50	21.20	2
		1	36	19.35	19.42	19.49	19.48	19.35	21.20	2
		1	74	19.34	19.38	19.48	19.41	19.31	21.20	2
		36	0	18.35	18.37	18.37	18.48	18.35	20.20	3
		36	18	18.44	18.45	18.41	18.47	18.46	20.20	3
		36	37	18.33	18.36	18.30	18.35	18.34	20.20	3
		75	0	18.36	18.40	18.39	18.37	18.46	20.20	3
	256-QAM	1	0	18.43	18.30	18.42	18.45	18.37	20.20	3
		1	36	18.50	18.48	18.48	18.39	18.33	20.20	3
		1	74	18.44	18.49	18.48	18.49	18.44	20.20	3
		36	0	17.37	17.45	17.42	17.49	17.32	19.20	4
		36	18	17.35	17.46	17.43	17.46	17.50	19.20	4
		36	37	17.30	17.32	17.33	17.46	17.46	19.20	4
75		0	17.39	17.31	17.34	17.31	17.47	19.20	4	

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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	21.38	21.40	21.40	21.50	21.47	23.20	0
		1	25	21.36	21.45	21.37	21.47	21.36	23.20	0
		1	49	21.31	21.42	21.48	21.50	21.44	23.20	0
		25	0	20.39	20.38	20.30	20.36	20.41	22.20	1
		25	12	20.39	20.33	20.45	20.46	20.43	22.20	1
		25	25	20.41	20.44	20.30	20.41	20.46	22.20	1
	16-QAM	50	0	20.38	20.37	20.32	20.37	20.35	22.20	1
		1	0	20.50	20.40	20.46	20.33	20.47	22.20	1
		1	25	20.36	20.32	20.40	20.44	20.35	22.20	1
		1	49	20.32	20.46	20.36	20.38	20.34	22.20	1
		25	0	19.45	19.38	19.32	19.49	19.49	21.20	2
		25	12	19.31	19.37	19.38	19.50	19.43	21.20	2
	64-QAM	25	25	19.42	19.42	19.46	19.45	19.39	21.20	2
		50	0	19.40	19.46	19.39	19.33	19.50	21.20	2
		1	0	19.39	19.46	19.32	19.45	19.48	21.20	2
		1	25	19.37	19.41	19.34	19.32	19.45	21.20	2
		1	49	19.44	19.35	19.40	19.39	19.42	21.20	2
		25	0	18.44	18.45	18.46	18.48	18.47	20.20	3
	256-QAM	25	12	18.39	18.46	18.36	18.47	18.48	20.20	3
		25	25	18.45	18.33	18.46	18.33	18.49	20.20	3
		25	0	18.37	18.50	18.46	18.35	18.37	20.20	3
		1	0	18.36	18.41	18.36	18.42	18.34	20.20	3
		1	25	18.41	18.42	18.40	18.43	18.31	20.20	3
		1	49	18.30	18.36	18.32	18.41	18.47	20.20	3
	25	0	17.35	17.48	17.32	17.35	17.40	19.20	4	
	25	12	17.35	17.44	17.34	17.37	17.46	19.20	4	
	25	25	17.43	17.36	17.40	17.46	17.32	19.20	4	
	50	0	17.41	17.47	17.34	17.39	17.32	19.20	4	

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	21.38	21.32	21.37	21.45	21.32	23.20	0
		1	12	21.47	21.32	21.34	21.33	21.32	23.20	0
		1	24	21.44	21.43	21.50	21.34	21.39	23.20	0
		12	0	20.39	20.37	20.39	20.34	20.37	22.20	1
		12	6	20.30	20.46	20.44	20.34	20.34	22.20	1
		12	13	20.44	20.46	20.48	20.32	20.38	22.20	1
		25	0	20.50	20.31	20.45	20.39	20.40	22.20	1
	16-QAM	1	0	20.41	20.33	20.50	20.38	20.31	22.20	1
		1	12	20.48	20.45	20.45	20.36	20.48	22.20	1
		1	24	20.42	20.48	20.42	20.49	20.32	22.20	1
		12	0	19.49	19.38	19.32	19.43	19.40	21.20	2
		12	6	19.31	19.35	19.50	19.38	19.45	21.20	2
		12	13	19.42	19.38	19.42	19.40	19.37	21.20	2
		25	0	19.41	19.33	19.34	19.40	19.38	21.20	2
	64-QAM	1	0	19.42	19.48	19.36	19.44	19.38	21.20	2
		1	12	19.49	19.38	19.30	19.38	19.33	21.20	2
		1	24	19.40	19.49	19.46	19.45	19.45	21.20	2
		12	0	18.50	18.39	18.34	18.50	18.50	20.20	3
		12	6	18.41	18.35	18.30	18.39	18.31	20.20	3
		12	13	18.47	18.36	18.38	18.31	18.46	20.20	3
		25	0	18.40	18.45	18.41	18.41	18.33	20.20	3
	256-QAM	1	0	18.36	18.33	18.45	18.47	18.42	20.20	3
		1	12	18.49	18.39	18.47	18.39	18.39	20.20	3
		1	24	18.40	18.46	18.46	18.44	18.38	20.20	3
		12	0	17.40	17.41	17.46	17.43	17.33	19.20	4
		12	6	17.33	17.42	17.34	17.38	17.38	19.20	4
		12	13	17.40	17.47	17.36	17.39	17.34	19.20	4
		25	0	17.35	17.50	17.32	17.34	17.46	19.20	4

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TD LTE HOTSPOT DSI 13

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	23.03	23.12	23.11	24.70	0
		1	50	22.84	22.85	22.85	24.70	0
		1	99	22.83	22.86	22.85	24.70	0
		50	0	21.81	21.89	21.86	23.70	1
		50	25	21.82	21.90	21.85	23.70	1
		50	50	21.81	21.87	21.90	23.70	1
		100	0	21.88	21.89	21.88	23.70	1
	16-QAM	1	0	21.80	21.83	21.84	23.70	1
		1	50	21.81	21.86	21.85	23.70	1
		1	99	21.90	21.87	21.90	23.70	1
		50	0	20.85	20.88	20.81	22.70	2
		50	25	20.86	20.82	20.90	22.70	2
		50	50	20.86	20.81	20.85	22.70	2
		100	0	20.83	20.87	20.88	22.70	2
	64-QAM	1	0	20.83	20.82	20.89	22.70	2
		1	50	20.85	20.87	20.85	22.70	2
		1	99	20.87	20.86	20.86	22.70	2
		50	0	19.86	19.81	19.81	21.70	3
		50	25	19.87	19.81	19.86	21.70	3
		50	50	19.87	19.88	19.81	21.70	3
		100	0	19.84	19.83	19.85	21.70	3
	256-QAM	1	0	19.90	19.84	19.81	21.70	3
		1	50	19.85	19.83	19.86	21.70	3
		1	99	19.87	19.88	19.84	21.70	3
		50	0	18.83	18.83	18.81	20.70	4
		50	25	18.81	18.89	18.82	20.70	4
		50	50	18.82	18.85	18.85	20.70	4
		100	0	18.86	18.83	18.86	20.70	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.87	22.81	22.89	24.70	0
		1	36	22.84	22.84	22.87	24.70	0
		1	74	22.82	22.86	22.89	24.70	0
		36	0	21.87	21.87	21.86	23.70	1
		36	18	21.87	21.81	21.84	23.70	1
		36	37	21.87	21.80	21.88	23.70	1
		75	0	21.80	21.84	21.86	23.70	1
	16-QAM	1	0	21.80	21.82	21.87	23.70	1
		1	36	21.84	21.85	21.82	23.70	1
		1	74	21.89	21.83	21.83	23.70	1
		36	0	20.86	20.88	20.88	22.70	2
		36	18	20.85	20.80	20.88	22.70	2
		36	37	20.89	20.84	20.89	22.70	2
		75	0	20.87	20.81	20.83	22.70	2
	64-QAM	1	0	20.82	20.88	20.89	22.70	2
		1	36	20.88	20.85	20.88	22.70	2
		1	74	20.84	20.85	20.87	22.70	2
		36	0	19.87	19.89	19.88	21.70	3
		36	18	19.85	19.81	19.85	21.70	3
		36	37	19.83	19.82	19.89	21.70	3
		75	0	19.81	19.84	19.89	21.70	3
	256-QAM	1	0	19.86	19.85	19.83	21.70	3
		1	36	19.89	19.84	19.82	21.70	3
		1	74	19.84	19.82	19.80	21.70	3
		36	0	18.80	18.86	18.86	20.70	4
		36	18	18.85	18.83	18.82	20.70	4
		36	37	18.83	18.81	18.88	20.70	4
		75	0	18.80	18.82	18.83	20.70	4

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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	22.80	22.85	22.87	24.70	0
		1	25	22.82	22.85	22.87	24.70	0
		1	49	22.83	22.83	22.82	24.70	0
		25	0	21.89	21.86	21.89	23.70	1
		25	12	21.81	21.90	21.86	23.70	1
		25	25	21.87	21.89	21.84	23.70	1
		50	0	21.85	21.83	21.84	23.70	1
	16-QAM	1	0	21.87	21.87	21.85	23.70	1
		1	25	21.80	21.88	21.89	23.70	1
		1	49	21.85	21.86	21.81	23.70	1
		25	0	20.81	20.80	20.83	22.70	2
		25	12	20.90	20.88	20.81	22.70	2
		25	25	20.88	20.88	20.88	22.70	2
		50	0	20.85	20.89	20.88	22.70	2
	64-QAM	1	0	20.87	20.87	20.84	22.70	2
		1	25	20.85	20.80	20.86	22.70	2
		1	49	20.85	20.90	20.86	22.70	2
		25	0	19.81	19.85	19.88	21.70	3
		25	12	19.83	19.81	19.83	21.70	3
		25	25	19.87	19.80	19.86	21.70	3
		50	0	19.81	19.89	19.83	21.70	3
	256-QAM	1	0	19.89	19.89	19.83	21.70	3
		1	25	19.84	19.89	19.86	21.70	3
		1	49	19.88	19.82	19.86	21.70	3
		25	0	18.90	18.87	18.83	20.70	4
		25	12	18.84	18.80	18.82	20.70	4
		25	25	18.90	18.84	18.80	20.70	4
		50	0	18.83	18.82	18.90	20.70	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	22.87	22.81	22.86	24.70	0
		1	12	22.81	22.86	22.89	24.70	0
		1	24	22.86	22.87	22.84	24.70	0
		12	0	21.81	21.89	21.88	23.70	1
		12	6	21.86	21.86	21.87	23.70	1
		12	13	21.84	21.80	21.81	23.70	1
		25	0	21.89	21.88	21.82	23.70	1
	16-QAM	1	0	21.81	21.80	21.82	23.70	1
		1	12	21.85	21.82	21.87	23.70	1
		1	24	21.90	21.83	21.85	23.70	1
		12	0	20.88	20.87	20.89	22.70	2
		12	6	20.83	20.88	20.80	22.70	2
		12	13	20.82	20.87	20.89	22.70	2
		25	0	20.88	20.82	20.88	22.70	2
	64-QAM	1	0	20.81	20.86	20.84	22.70	2
		1	12	20.83	20.85	20.89	22.70	2
		1	24	20.89	20.80	20.80	22.70	2
		12	0	19.80	19.80	19.87	21.70	3
		12	6	19.81	19.80	19.83	21.70	3
		12	13	19.87	19.90	19.84	21.70	3
		25	0	19.81	19.81	19.86	21.70	3
	256-QAM	1	0	19.83	19.87	19.80	21.70	3
		1	12	19.84	19.86	19.82	21.70	3
		1	24	19.80	19.89	19.88	21.70	3
		12	0	18.87	18.80	18.85	20.70	4
		12	6	18.86	18.89	18.87	20.70	4
		12	13	18.83	18.86	18.82	20.70	4
		25	0	18.87	18.80	18.81	20.70	4

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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	21.89	22.06	21.76	21.96	21.96	23.20	0
		1	50	21.71	21.94	21.66	21.84	21.77	23.20	0
		1	99	21.76	21.87	21.73	21.74	21.71	23.20	0
		50	0	20.68	20.88	20.76	20.67	20.76	22.20	1
		50	25	20.79	21.04	20.81	20.72	20.71	22.20	1
		50	50	20.73	20.84	20.61	20.62	20.65	22.20	1
	16-QAM	100	0	20.59	20.89	20.72	20.74	20.79	22.20	1
		1	0	20.67	20.86	20.78	20.63	20.69	22.20	1
		1	50	20.69	20.85	20.67	20.61	20.67	22.20	1
		1	99	20.75	20.98	20.84	20.70	20.69	22.20	1
		50	0	19.76	19.99	19.75	19.76	19.59	21.20	2
		50	25	19.73	19.95	19.82	19.74	19.64	21.20	2
	64-QAM	50	50	19.71	20.05	19.72	19.75	19.80	21.20	2
		100	0	19.67	19.89	19.73	19.69	19.77	21.20	2
		1	0	19.65	19.90	19.68	19.79	19.71	21.20	2
		1	50	19.69	19.94	19.57	19.63	19.73	21.20	2
		1	99	19.77	19.88	19.75	19.68	19.71	21.20	2
		50	0	18.63	18.85	18.74	18.85	18.71	20.20	3
	256-QAM	50	25	18.71	18.84	18.69	18.64	18.76	20.20	3
		50	50	18.79	18.84	18.77	18.67	18.64	20.20	3
		100	0	18.74	18.98	18.67	18.77	18.73	20.20	3
		1	0	18.82	18.98	18.79	18.74	18.70	20.20	3
		1	50	18.83	19.00	18.66	18.70	18.78	20.20	3
		1	99	18.65	18.84	18.61	18.71	18.65	20.20	3
	50	0	17.74	17.86	17.81	17.71	17.80	19.20	4	
	50	25	17.83	17.93	17.80	17.78	17.69	19.20	4	
	50	50	17.70	18.10	17.75	17.83	17.71	19.20	4	
	100	0	17.68	18.05	17.75	17.65	17.83	19.20	4	

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	21.83	21.94	21.75	21.67	21.70	23.20	0
		1	36	21.71	21.96	21.72	21.62	21.80	23.20	0
		1	74	21.80	21.89	21.73	21.69	21.71	23.20	0
		36	0	20.61	20.89	20.67	20.81	20.61	22.20	1
		36	18	20.65	21.00	20.70	20.77	20.72	22.20	1
		36	37	20.62	21.00	20.63	20.71	20.82	22.20	1
		75	0	20.62	21.02	20.71	20.66	20.69	22.20	1
	16-QAM	1	0	20.78	20.92	20.73	20.66	20.62	22.20	1
		1	36	20.78	21.00	20.62	20.73	20.81	22.20	1
		1	74	20.66	20.93	20.74	20.80	20.73	22.20	1
		36	0	19.63	20.04	19.58	19.68	19.72	21.20	2
		36	18	19.73	19.82	19.59	19.75	19.65	21.20	2
		36	37	19.68	19.90	19.77	19.66	19.66	21.20	2
		75	0	19.87	19.81	19.74	19.66	19.74	21.20	2
	64-QAM	1	0	19.72	19.97	19.77	19.63	19.87	21.20	2
		1	36	19.70	19.84	19.72	19.70	19.79	21.20	2
		1	74	19.65	19.83	19.76	19.77	19.70	21.20	2
		36	0	18.73	18.90	18.65	18.71	18.64	20.20	3
		36	18	18.65	18.90	18.77	18.65	18.69	20.20	3
		36	37	18.84	18.91	18.62	18.75	18.66	20.20	3
		75	0	18.86	18.89	18.74	18.70	18.78	20.20	3
	256-QAM	1	0	18.69	18.94	18.77	18.79	18.80	20.20	3
		1	36	18.83	18.92	18.72	18.74	18.69	20.20	3
		1	74	18.75	18.90	18.73	18.72	18.70	20.20	3
		36	0	17.78	17.90	17.79	17.70	17.80	19.20	4
		36	18	17.79	17.96	17.72	17.75	17.64	19.20	4
		36	37	17.86	17.96	17.67	17.64	17.57	19.20	4
		75	0	17.61	17.78	17.64	17.73	17.65	19.20	4

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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	21.70	21.79	21.74	21.68	21.61	23.20	0
		1	25	21.74	21.93	21.61	21.71	21.80	23.20	0
		1	49	21.70	21.91	21.67	21.65	21.68	23.20	0
		25	0	20.73	20.89	20.62	20.76	20.67	22.20	1
		25	12	20.68	20.87	20.67	20.75	20.69	22.20	1
		25	25	20.71	21.00	20.71	20.75	20.81	22.20	1
	16-QAM	50	0	20.81	21.00	20.83	20.61	20.72	22.20	1
		1	0	20.78	20.91	20.61	20.71	20.79	22.20	1
		1	25	20.72	21.04	20.68	20.72	20.69	22.20	1
		1	49	20.62	20.82	20.79	20.71	20.70	22.20	1
		25	0	19.66	19.84	19.80	19.71	19.73	21.20	2
		25	12	19.68	19.86	19.79	19.73	19.70	21.20	2
	64-QAM	25	25	19.65	19.94	19.70	19.78	19.68	21.20	2
		50	0	19.82	20.00	19.68	19.62	19.85	21.20	2
		1	0	19.77	19.94	19.62	19.76	19.63	21.20	2
		1	25	19.82	20.06	19.78	19.85	19.85	21.20	2
		1	49	19.71	19.96	19.77	19.75	19.64	21.20	2
		25	0	18.63	18.84	18.71	18.78	18.60	20.20	3
	256-QAM	25	12	18.63	18.98	18.74	18.66	18.83	20.20	3
		25	25	18.67	18.91	18.77	18.64	18.86	20.20	3
		25	0	18.76	18.93	18.67	18.74	18.63	20.20	3
		1	0	18.73	18.96	18.59	18.76	18.82	20.20	3
		1	25	18.71	18.95	18.86	18.83	18.78	20.20	3
		1	49	18.64	18.99	18.71	18.63	18.69	20.20	3
	25	0	17.70	17.86	17.72	17.79	17.70	19.20	4	
	25	12	17.71	17.98	17.73	17.74	17.69	19.20	4	
	25	25	17.78	17.82	17.81	17.81	17.88	19.20	4	
	50	0	17.83	17.92	17.75	17.63	17.74	19.20	4	

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	21.79	21.96	21.68	21.68	21.65	23.20	0
		1	12	21.71	21.99	21.65	21.74	21.69	23.20	0
		1	24	21.61	21.91	21.79	21.72	21.70	23.20	0
		12	0	20.69	20.84	20.85	20.65	20.76	22.20	1
		12	6	20.88	20.95	20.86	20.75	20.70	22.20	1
		12	13	20.71	20.91	20.77	20.69	20.78	22.20	1
	16-QAM	25	0	20.74	20.96	20.82	20.73	20.73	22.20	1
		1	0	20.82	21.03	20.66	20.80	20.71	22.20	1
		1	12	20.67	20.97	20.69	20.73	20.70	22.20	1
		1	24	20.70	20.91	20.72	20.76	20.77	22.20	1
		12	0	19.68	19.82	19.72	19.78	19.70	21.20	2
		12	6	19.70	20.01	19.69	19.87	19.68	21.20	2
	64-QAM	12	13	19.73	20.00	19.72	19.64	19.57	21.20	2
		25	0	19.69	20.01	19.74	19.56	19.64	21.20	2
		1	0	19.59	19.95	19.61	19.79	19.66	21.20	2
		1	12	19.79	19.93	19.71	19.83	19.73	21.20	2
		1	24	19.59	19.84	19.84	19.64	19.62	21.20	2
		12	0	18.70	18.86	18.76	18.74	18.72	20.20	3
	256-QAM	12	6	18.74	19.05	18.73	18.82	18.61	20.20	3
		12	13	18.60	18.90	18.69	18.71	18.62	20.20	3
		12	0	18.77	18.95	18.72	18.71	18.81	20.20	3
		1	0	18.80	19.02	18.66	18.61	18.76	20.20	3
		1	12	18.73	19.03	18.74	18.80	18.61	20.20	3
		1	24	18.64	18.95	18.72	18.61	18.71	20.20	3
	12	0	17.74	17.96	17.83	17.59	17.69	19.20	4	
	12	6	17.79	18.08	17.62	17.82	17.70	19.20	4	
	12	13	17.80	18.00	17.74	17.71	17.62	19.20	4	
	25	0	17.70	17.95	17.79	17.79	17.66	19.20	4	

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1.3.6 Ant 7
NR TDD BODY DSI 3

5G NR n38_30kHz									
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				516000	519000	522000			
20	Pi/2 BPSK	1	1	23.40	23.17	22.60	24.00	0.0	
		1	53	22.37	22.41	22.31	24.00	0.0	
		1	104	22.49	22.46	22.45	24.00	0.0	
		50	0	21.83	21.95	21.91	23.50	0.5	
		50	28	22.38	22.47	22.37	24.00	0.0	
		50	56	21.86	21.87	21.86	23.50	0.5	
	QPSK	100	0	21.88	21.86	21.87	23.50	0.5	
		1	1	22.47	22.32	22.33	24.00	0.0	
		1	53	22.37	22.33	22.49	24.00	0.0	
		1	104	22.46	22.49	22.50	24.00	0.0	
		50	0	21.41	21.49	21.42	23.00	1.0	
		50	28	22.46	22.31	22.32	24.00	0.0	
	16-QAM	50	56	21.38	21.50	21.31	23.00	1.0	
		100	0	21.35	21.40	21.46	23.00	1.0	
		16-QAM	1	1	21.42	21.35	21.35	23.00	1.0
		64QAM	1	1	19.97	19.98	19.98	21.50	2.5
		256-QAM	1	1	17.90	17.99	17.88	19.50	4.5

5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	22.32	22.45	22.41	24.00	0.0

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5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	22.33	22.40	22.43	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	23.57	23.69	22.80	24.00	0.0
		1	137	22.63	22.68	22.70	24.00	0.0
		1	271	22.62	22.57	22.55	24.00	0.0
		135	0	22.17	22.03	22.06	23.50	0.5
		135	69	22.67	22.59	22.63	24.00	0.0
		135	138	22.06	22.01	22.16	23.50	0.5
		270	0	22.04	22.03	22.05	23.50	0.5
	QPSK	1	1	22.50	22.50	22.68	24.00	0.0
		1	137	22.65	22.68	22.53	24.00	0.0
		1	271	22.58	22.64	22.57	24.00	0.0
		135	0	21.56	21.65	21.60	23.00	1.0
		135	69	22.55	22.55	22.52	24.00	0.0
		135	138	21.69	21.51	21.66	23.00	1.0
		270	0	21.51	21.61	21.55	23.00	1.0
	16-QAM	1	1	21.54	21.60	21.68	23.00	1.0
64QAM	1	1	20.09	20.16	20.09	21.50	2.5	
256-QAM	1	1	18.11	18.06	18.04	19.50	4.5	
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	22.63	22.54	22.50	24.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	22.65	22.57	22.69	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	22.68	22.57	22.54	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	22.59	22.61	22.63	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	22.50	22.67	22.61	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	22.59	22.58	22.51	24.00	0.0

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NR TDD HEAD DSI 8

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	21.89	21.98	21.77	22.00	0.0
		1	53	21.85	21.87	21.92	22.00	0.0
		1	104	21.78	21.76	21.88	22.00	0.0
		50	0	21.40	21.29	21.43	21.50	0.5
		50	28	21.93	21.89	21.79	22.00	0.0
		50	56	21.42	21.30	21.32	21.50	0.5
		100	0	21.33	21.40	21.43	21.50	0.5
	QPSK	1	1	21.85	21.86	21.94	22.00	0.0
		1	53	21.80	21.79	21.76	22.00	0.0
		1	104	21.84	21.76	21.81	22.00	0.0
		50	0	20.77	20.94	20.89	21.00	1.0
		50	28	21.83	21.75	21.83	22.00	0.0
		50	56	20.86	20.92	20.76	21.00	1.0
		100	0	20.86	20.79	20.86	21.00	1.0
	16-QAM	1	1	20.86	20.80	20.83	21.00	1.0
	64QAM	1	1	19.44	19.37	19.30	19.50	2.5
	256-QAM	1	1	17.33	17.32	17.31	17.50	4.5
5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	21.93	21.78	21.76	22.00	0.0

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5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	21.94	21.84	21.80	22.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	22.00	21.71	21.98	22.00	0.0
		1	137	21.95	21.79	21.77	22.00	0.0
		1	271	21.91	21.84	21.91	22.00	0.0
		135	0	21.26	21.28	21.34	21.50	0.5
		135	69	21.80	21.82	21.80	22.00	0.0
		135	138	21.31	21.44	21.44	21.50	0.5
		270	0	21.28	21.44	21.36	21.50	0.5
	QPSK	1	1	21.89	21.91	21.95	22.00	0.0
		1	137	21.95	21.84	21.78	22.00	0.0
		1	271	21.82	21.95	21.93	22.00	0.0
		135	0	20.77	20.77	20.78	21.00	1.0
		135	69	21.78	21.89	21.75	22.00	0.0
		135	138	20.83	20.80	20.82	21.00	1.0
		270	0	20.92	20.75	20.88	21.00	1.0
	16-QAM	1	1	20.93	20.93	20.75	21.00	1.0
64QAM	1	1	19.26	19.29	19.35	19.50	2.5	
256-QAM	1	1	17.40	17.27	17.41	17.50	4.5	
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	21.90	21.94	21.77	22.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	21.79	21.76	21.82	22.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	21.75	21.94	21.76	22.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	21.94	21.85	21.91	22.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	21.83	21.87	21.80	22.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	21.87	21.83	21.79	22.00	0.0

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NR TDD HOTSPOT DSI 13

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	23.40	23.17	22.60	24.00	0.0
		1	53	22.37	22.41	22.31	24.00	0.0
		1	104	22.49	22.46	22.45	24.00	0.0
		50	0	21.83	21.95	21.91	23.50	0.5
		50	28	22.38	22.47	22.37	24.00	0.0
		50	56	21.86	21.87	21.86	23.50	0.5
		100	0	21.88	21.86	21.87	23.50	0.5
	QPSK	1	1	22.47	22.32	22.33	24.00	0.0
		1	53	22.37	22.33	22.49	24.00	0.0
		1	104	22.46	22.49	22.50	24.00	0.0
		50	0	21.41	21.49	21.42	23.00	1.0
		50	28	22.46	22.31	22.32	24.00	0.0
		50	56	21.38	21.50	21.31	23.00	1.0
		100	0	21.35	21.40	21.46	23.00	1.0
	16-QAM	1	1	21.42	21.35	21.35	23.00	1.0
	64QAM	1	1	19.97	19.98	19.98	21.50	2.5
	256-QAM	1	1	17.90	17.99	17.88	19.50	4.5
5G NR n38_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				515500	519000	522500		
15	Pi/2 BPSK	1	1	22.32	22.45	22.41	24.00	0.0

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5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	22.33	22.40	22.43	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	23.57	23.69	22.80	24.00	0.0
		1	137	22.63	22.68	22.70	24.00	0.0
		1	271	22.62	22.57	22.55	24.00	0.0
		135	0	22.17	22.03	22.06	23.50	0.5
		135	69	22.67	22.59	22.63	24.00	0.0
		135	138	22.06	22.01	22.16	23.50	0.5
		270	0	22.04	22.03	22.05	23.50	0.5
	QPSK	1	1	22.50	22.50	22.68	24.00	0.0
		1	137	22.65	22.68	22.53	24.00	0.0
		1	271	22.58	22.64	22.57	24.00	0.0
		135	0	21.56	21.65	21.60	23.00	1.0
		135	69	22.55	22.55	22.52	24.00	0.0
		135	138	21.69	21.51	21.66	23.00	1.0
		270	0	21.51	21.61	21.55	23.00	1.0
	16-QAM	1	1	21.54	21.60	21.68	23.00	1.0
	64QAM	1	1	20.09	20.16	20.09	21.50	2.5
256-QAM	1	1	18.11	18.06	18.04	19.50	4.5	
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	22.63	22.54	22.50	24.00	0.0

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5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	22.65	22.57	22.69	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	22.68	22.57	22.54	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	22.59	22.61	22.63	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	22.50	22.67	22.61	24.00	0.0
5G NR n41_30kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	22.59	22.58	22.51	24.00	0.0

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TD LTE BODY DSI 3

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	22.32	22.50	22.02	23.70	0
		1	50	21.96	21.97	21.84	23.70	0
		1	99	21.83	21.87	21.91	23.70	0
		50	0	20.99	20.82	20.90	22.70	1
		50	25	20.92	20.87	20.87	22.70	1
		50	50	20.82	20.82	20.98	22.70	1
		100	0	20.88	20.81	20.82	22.70	1
	16-QAM	1	0	20.85	20.94	20.85	22.70	1
		1	50	21.00	20.95	20.94	22.70	1
		1	99	20.94	20.82	20.82	22.70	1
		50	0	19.93	19.91	19.93	21.70	2
		50	25	19.94	19.83	19.87	21.70	2
		50	50	19.82	19.89	19.91	21.70	2
		100	0	19.97	19.99	19.99	21.70	2
	64-QAM	1	0	19.85	19.89	20.00	21.70	2
		1	50	19.98	19.97	19.91	21.70	2
		1	99	19.96	19.84	19.97	21.70	2
		50	0	18.82	18.99	18.96	20.70	3
		50	25	18.83	18.95	18.82	20.70	3
		50	50	18.94	18.85	18.97	20.70	3
		100	0	18.95	18.96	18.81	20.70	3
	256-QAM	1	0	18.94	18.81	18.91	20.70	3
		1	50	18.95	18.86	18.82	20.70	3
		1	99	18.98	18.84	18.94	20.70	3
		50	0	17.81	17.99	17.89	19.70	4
		50	25	17.82	17.98	17.94	19.70	4
		50	50	17.82	17.86	17.95	19.70	4
		100	0	17.98	17.94	17.83	19.70	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.00	21.95	21.95	23.70	0
		1	36	21.99	22.00	22.00	23.70	0
		1	74	21.83	22.00	21.92	23.70	0
		36	0	20.81	20.92	20.99	22.70	1
		36	18	20.86	20.90	20.87	22.70	1
		36	37	20.98	20.90	20.97	22.70	1
		75	0	20.99	20.85	20.96	22.70	1
	16-QAM	1	0	20.95	20.95	20.84	22.70	1
		1	36	20.84	20.89	20.91	22.70	1
		1	74	20.99	20.88	21.00	22.70	1
		36	0	19.82	19.91	19.95	21.70	2
		36	18	19.81	19.90	19.85	21.70	2
		36	37	19.83	19.95	19.94	21.70	2
		75	0	19.90	19.84	19.85	21.70	2
	64-QAM	1	0	19.96	19.90	19.85	21.70	2
		1	36	19.80	19.97	19.92	21.70	2
		1	74	19.87	19.98	19.92	21.70	2
		36	0	18.87	18.90	18.80	20.70	3
		36	18	18.88	18.84	18.88	20.70	3
		36	37	18.83	18.87	18.97	20.70	3
		75	0	18.94	18.96	18.84	20.70	3
	256-QAM	1	0	18.84	18.82	18.85	20.70	3
		1	36	18.96	18.97	18.84	20.70	3
		1	74	18.89	18.89	18.83	20.70	3
		36	0	17.92	18.00	17.83	19.70	4
		36	18	17.90	17.86	17.94	19.70	4
		36	37	17.83	17.97	17.98	19.70	4
		75	0	17.81	17.87	17.97	19.70	4

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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	21.83	21.94	21.97	23.70	0
		1	25	21.92	21.83	21.97	23.70	0
		1	49	21.92	21.84	21.90	23.70	0
		25	0	20.86	20.91	20.87	22.70	1
		25	12	20.91	20.94	20.94	22.70	1
		25	25	20.83	20.84	20.95	22.70	1
		50	0	20.82	20.92	20.91	22.70	1
	16-QAM	1	0	20.80	20.95	20.95	22.70	1
		1	25	20.87	20.92	20.93	22.70	1
		1	49	20.90	20.91	20.97	22.70	1
		25	0	19.87	19.80	20.00	21.70	2
		25	12	19.88	19.86	19.88	21.70	2
		25	25	19.88	19.95	19.85	21.70	2
		50	0	19.99	19.97	19.85	21.70	2
	64-QAM	1	0	19.91	19.96	19.88	21.70	2
		1	25	19.95	19.98	19.84	21.70	2
		1	49	19.97	19.86	19.98	21.70	2
		25	0	19.00	18.81	18.83	20.70	3
		25	12	18.87	18.89	18.84	20.70	3
		25	25	18.97	18.93	18.87	20.70	3
		50	0	18.81	18.94	18.85	20.70	3
	256-QAM	1	0	18.82	18.83	18.85	20.70	3
		1	25	18.91	18.94	18.92	20.70	3
		1	49	19.00	18.96	18.80	20.70	3
		25	0	18.00	17.92	17.95	19.70	4
		25	12	17.99	17.89	17.89	19.70	4
		25	25	17.82	17.82	17.87	19.70	4
		50	0	17.98	17.93	17.90	19.70	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	21.99	21.88	21.89	23.70	0
		1	12	21.87	21.88	21.86	23.70	0
		1	24	21.87	21.90	22.00	23.70	0
		12	0	20.96	20.90	20.84	22.70	1
		12	6	20.98	20.93	20.94	22.70	1
		12	13	20.93	20.92	20.94	22.70	1
		25	0	20.90	20.86	20.93	22.70	1
	16-QAM	1	0	20.85	20.95	20.90	22.70	1
		1	12	20.81	20.94	20.85	22.70	1
		1	24	20.83	20.82	20.99	22.70	1
		12	0	19.95	19.91	19.98	21.70	2
		12	6	19.97	19.84	19.87	21.70	2
		12	13	19.82	19.92	19.81	21.70	2
		25	0	19.84	19.82	19.83	21.70	2
	64-QAM	1	0	19.94	19.96	19.84	21.70	2
		1	12	19.88	19.88	19.82	21.70	2
		1	24	19.98	19.93	19.84	21.70	2
		12	0	18.93	18.92	19.00	20.70	3
		12	6	18.90	18.88	18.86	20.70	3
		12	13	18.96	18.82	18.93	20.70	3
		25	0	18.90	18.97	18.99	20.70	3
	256-QAM	1	0	18.92	18.90	18.98	20.70	3
		1	12	18.85	18.81	18.95	20.70	3
		1	24	18.81	18.99	18.86	20.70	3
		12	0	17.86	17.96	17.96	19.70	4
		12	6	17.81	17.83	17.93	19.70	4
		12	13	17.95	17.91	17.97	19.70	4
		25	0	17.81	17.88	17.99	19.70	4

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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	22.21	22.69	22.04	22.03	22.02	23.70	0
		1	50	21.74	21.89	21.73	21.76	21.85	23.70	0
		1	99	21.85	21.90	21.88	21.80	21.77	23.70	0
		50	0	20.80	20.89	20.71	20.88	20.82	22.70	1
		50	25	20.81	20.88	20.79	20.82	20.76	22.70	1
		50	50	20.86	20.75	20.84	20.70	20.80	22.70	1
	16-QAM	100	0	20.85	20.89	20.82	20.80	20.73	22.70	1
		1	0	20.74	20.89	20.73	20.87	20.73	22.70	1
		1	50	20.87	20.84	20.88	20.77	20.77	22.70	1
		1	99	20.75	20.71	20.86	20.88	20.72	22.70	1
		50	0	19.80	19.89	19.90	19.87	19.79	21.70	2
		50	25	19.74	19.72	19.76	19.83	19.71	21.70	2
	64-QAM	50	50	19.79	19.77	19.72	19.76	19.88	21.70	2
		100	0	19.71	19.87	19.72	19.82	19.77	21.70	2
		1	0	19.88	19.81	19.72	19.71	19.84	21.70	2
		1	50	19.79	19.88	19.83	19.89	19.86	21.70	2
		1	99	19.81	19.88	19.80	19.83	19.73	21.70	2
		50	0	18.72	18.77	18.73	18.79	18.73	20.70	3
	256-QAM	50	25	18.87	18.80	18.80	18.79	18.82	20.70	3
		50	50	18.75	18.81	18.71	18.89	18.81	20.70	3
		100	0	18.83	18.87	18.86	18.75	18.74	20.70	3
		1	0	18.76	18.85	18.80	18.84	18.80	20.70	3
		1	50	18.86	18.73	18.70	18.79	18.83	20.70	3
		1	99	18.72	18.86	18.78	18.71	18.88	20.70	3
256-QAM	50	0	17.75	17.82	17.89	17.87	17.84	19.70	4	
	50	25	17.89	17.76	17.73	17.72	17.81	19.70	4	
	50	50	17.76	17.81	17.78	17.75	17.89	19.70	4	
	100	0	17.79	17.72	17.89	17.71	17.77	19.70	4	

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	21.80	21.81	21.77	21.73	21.81	23.70	0
		1	36	21.87	21.85	21.78	21.82	21.90	23.70	0
		1	74	21.76	21.79	21.81	21.72	21.88	23.70	0
		36	0	20.73	20.77	20.77	20.76	20.80	22.70	1
		36	18	20.81	20.75	20.78	20.82	20.86	22.70	1
		36	37	20.87	20.84	20.73	20.85	20.90	22.70	1
		75	0	20.89	20.75	20.83	20.84	20.88	22.70	1
	16-QAM	1	0	20.75	20.77	20.71	20.88	20.70	22.70	1
		1	36	20.83	20.75	20.89	20.74	20.78	22.70	1
		1	74	20.74	20.76	20.73	20.89	20.78	22.70	1
		36	0	19.77	19.79	19.85	19.75	19.83	21.70	2
		36	18	19.89	19.86	19.72	19.84	19.85	21.70	2
		36	37	19.88	19.89	19.78	19.80	19.90	21.70	2
		75	0	19.88	19.79	19.79	19.74	19.86	21.70	2
	64-QAM	1	0	19.79	19.79	19.89	19.82	19.76	21.70	2
		1	36	19.89	19.80	19.80	19.90	19.71	21.70	2
		1	74	19.75	19.83	19.72	19.74	19.77	21.70	2
		36	0	18.86	18.75	18.85	18.79	18.85	20.70	3
		36	18	18.74	18.84	18.77	18.87	18.83	20.70	3
		36	37	18.85	18.70	18.86	18.77	18.79	20.70	3
		75	0	18.90	18.81	18.82	18.73	18.89	20.70	3
	256-QAM	1	0	18.82	18.87	18.86	18.80	18.70	20.70	3
		1	36	18.76	18.88	18.84	18.88	18.80	20.70	3
		1	74	18.79	18.72	18.77	18.87	18.89	20.70	3
		36	0	17.70	17.84	17.81	17.81	17.79	19.70	4
		36	18	17.89	17.78	17.82	17.79	17.78	19.70	4
		36	37	17.73	17.83	17.87	17.87	17.86	19.70	4
		75	0	17.88	17.76	17.89	17.75	17.82	19.70	4

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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	21.80	21.88	21.86	21.74	21.76	23.70	0
		1	25	21.82	21.71	21.81	21.71	21.85	23.70	0
		1	49	21.88	21.81	21.85	21.74	21.83	23.70	0
		25	0	20.89	20.79	20.79	20.81	20.70	22.70	1
		25	12	20.83	20.76	20.72	20.89	20.70	22.70	1
		25	25	20.80	20.73	20.77	20.72	20.77	22.70	1
	16-QAM	50	0	20.85	20.74	20.80	20.77	20.90	22.70	1
		1	0	20.90	20.88	20.86	20.76	20.77	22.70	1
		1	25	20.82	20.75	20.84	20.81	20.83	22.70	1
		1	49	20.82	20.74	20.89	20.74	20.87	22.70	1
		25	0	19.90	19.83	19.71	19.82	19.87	21.70	2
		25	12	19.82	19.72	19.88	19.77	19.85	21.70	2
	64-QAM	25	25	19.72	19.87	19.78	19.84	19.75	21.70	2
		50	0	19.70	19.89	19.81	19.85	19.88	21.70	2
		1	0	19.77	19.74	19.73	19.82	19.79	21.70	2
		1	25	19.79	19.77	19.75	19.77	19.86	21.70	2
		1	49	19.77	19.78	19.76	19.70	19.81	21.70	2
		25	0	18.88	18.76	18.70	18.77	18.81	20.70	3
	256-QAM	25	12	18.74	18.85	18.82	18.83	18.81	20.70	3
		25	25	18.76	18.77	18.89	18.89	18.77	20.70	3
		50	0	18.82	18.89	18.85	18.74	18.76	20.70	3
		1	0	18.85	18.89	18.90	18.89	18.75	20.70	3
		1	25	18.74	18.77	18.74	18.78	18.79	20.70	3
		1	49	18.85	18.79	18.77	18.74	18.81	20.70	3
	256-QAM	25	0	17.74	17.74	17.79	17.73	17.78	19.70	4
		25	12	17.84	17.82	17.79	17.90	17.77	19.70	4
		25	25	17.80	17.90	17.73	17.89	17.84	19.70	4
		50	0	17.83	17.88	17.81	17.84	17.73	19.70	4

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	21.80	21.86	21.90	21.79	21.77	23.70	0
		1	12	21.77	21.84	21.73	21.78	21.84	23.70	0
		1	24	21.75	21.87	21.86	21.90	21.89	23.70	0
		12	0	20.77	20.82	20.71	20.71	20.84	22.70	1
		12	6	20.87	20.85	20.85	20.72	20.87	22.70	1
		12	13	20.75	20.72	20.78	20.80	20.77	22.70	1
	16-QAM	25	0	20.71	20.76	20.73	20.75	20.84	22.70	1
		1	0	20.82	20.73	20.83	20.80	20.75	22.70	1
		1	12	20.88	20.75	20.73	20.88	20.72	22.70	1
		1	24	20.76	20.85	20.76	20.78	20.71	22.70	1
		12	0	19.86	19.89	19.80	19.87	19.81	21.70	2
		12	6	19.70	19.87	19.86	19.82	19.84	21.70	2
	64-QAM	12	13	19.87	19.83	19.81	19.86	19.80	21.70	2
		25	0	19.89	19.79	19.79	19.76	19.88	21.70	2
		1	0	19.86	19.72	19.88	19.71	19.80	21.70	2
		1	12	19.77	19.87	19.77	19.81	19.87	21.70	2
		1	24	19.86	19.70	19.74	19.81	19.77	21.70	2
		12	0	18.74	18.82	18.76	18.75	18.80	20.70	3
	256-QAM	12	6	18.81	18.71	18.80	18.71	18.71	20.70	3
		12	13	18.87	18.81	18.76	18.79	18.85	20.70	3
		25	0	18.79	18.88	18.81	18.78	18.79	20.70	3
		1	0	18.74	18.86	18.88	18.90	18.85	20.70	3
		1	12	18.72	18.71	18.78	18.81	18.77	20.70	3
		1	24	18.89	18.83	18.71	18.82	18.86	20.70	3
	12	0	17.85	17.81	17.89	17.82	17.84	19.70	4	
	12	6	17.81	17.76	17.76	17.79	17.77	19.70	4	
	12	13	17.84	17.71	17.77	17.82	17.83	19.70	4	
	25	0	17.86	17.70	17.88	17.82	17.89	19.70	4	

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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)				2580	2595	2610		
Channel				37850	38000	38150		
20	QPSK	1	0	22.32	22.50	22.02	23.70	0
		1	50	21.96	21.97	21.84	23.70	0
		1	99	21.83	21.87	21.91	23.70	0
		50	0	20.99	20.82	20.90	22.70	1
		50	25	20.92	20.87	20.87	22.70	1
		50	50	20.82	20.82	20.98	22.70	1
		100	0	20.88	20.81	20.82	22.70	1
	16-QAM	1	0	20.85	20.94	20.85	22.70	1
		1	50	21.00	20.95	20.94	22.70	1
		1	99	20.94	20.82	20.82	22.70	1
		50	0	19.93	19.91	19.93	21.70	2
		50	25	19.94	19.83	19.87	21.70	2
		50	50	19.82	19.89	19.91	21.70	2
		100	0	19.97	19.99	19.99	21.70	2
	64-QAM	1	0	19.85	19.89	20.00	21.70	2
		1	50	19.98	19.97	19.91	21.70	2
		1	99	19.96	19.84	19.97	21.70	2
		50	0	18.82	18.99	18.96	20.70	3
		50	25	18.83	18.95	18.82	20.70	3
		50	50	18.94	18.85	18.97	20.70	3
		100	0	18.95	18.96	18.81	20.70	3
	256-QAM	1	0	18.94	18.81	18.91	20.70	3
		1	50	18.95	18.86	18.82	20.70	3
		1	99	18.98	18.84	18.94	20.70	3
		50	0	17.81	17.99	17.89	19.70	4
		50	25	17.82	17.98	17.94	19.70	4
		50	50	17.82	17.86	17.95	19.70	4
		100	0	17.98	17.94	17.83	19.70	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.00	21.95	21.95	23.70	0
		1	36	21.99	22.00	22.00	23.70	0
		1	74	21.83	22.00	21.92	23.70	0
		36	0	20.81	20.92	20.99	22.70	1
		36	18	20.86	20.90	20.87	22.70	1
		36	37	20.98	20.90	20.97	22.70	1
		75	0	20.99	20.85	20.96	22.70	1
	16-QAM	1	0	20.95	20.95	20.84	22.70	1
		1	36	20.84	20.89	20.91	22.70	1
		1	74	20.99	20.88	21.00	22.70	1
		36	0	19.82	19.91	19.95	21.70	2
		36	18	19.81	19.90	19.85	21.70	2
		36	37	19.83	19.95	19.94	21.70	2
		75	0	19.90	19.84	19.85	21.70	2
	64-QAM	1	0	19.96	19.90	19.85	21.70	2
		1	36	19.80	19.97	19.92	21.70	2
		1	74	19.87	19.98	19.92	21.70	2
		36	0	18.87	18.90	18.80	20.70	3
		36	18	18.88	18.84	18.88	20.70	3
		36	37	18.83	18.87	18.97	20.70	3
		75	0	18.94	18.96	18.84	20.70	3
	256-QAM	1	0	18.84	18.82	18.85	20.70	3
		1	36	18.96	18.97	18.84	20.70	3
		1	74	18.89	18.89	18.83	20.70	3
		36	0	17.92	18.00	17.83	19.70	4
		36	18	17.90	17.86	17.94	19.70	4
		36	37	17.83	17.97	17.98	19.70	4
		75	0	17.81	17.87	17.97	19.70	4

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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	21.83	21.94	21.97	23.70	0
		1	25	21.92	21.83	21.97	23.70	0
		1	49	21.92	21.84	21.90	23.70	0
		25	0	20.86	20.91	20.87	22.70	1
		25	12	20.91	20.94	20.94	22.70	1
		25	25	20.83	20.84	20.95	22.70	1
		50	0	20.82	20.92	20.91	22.70	1
	16-QAM	1	0	20.80	20.95	20.95	22.70	1
		1	25	20.87	20.92	20.93	22.70	1
		1	49	20.90	20.91	20.97	22.70	1
		25	0	19.87	19.80	20.00	21.70	2
		25	12	19.88	19.86	19.88	21.70	2
		25	25	19.88	19.95	19.85	21.70	2
		50	0	19.99	19.97	19.85	21.70	2
	64-QAM	1	0	19.91	19.96	19.88	21.70	2
		1	25	19.95	19.98	19.84	21.70	2
		1	49	19.97	19.86	19.98	21.70	2
		25	0	19.00	18.81	18.83	20.70	3
		25	12	18.87	18.89	18.84	20.70	3
		25	25	18.97	18.93	18.87	20.70	3
		50	0	18.81	18.94	18.85	20.70	3
	256-QAM	1	0	18.82	18.83	18.85	20.70	3
		1	25	18.91	18.94	18.92	20.70	3
		1	49	19.00	18.96	18.80	20.70	3
		25	0	18.00	17.92	17.95	19.70	4
		25	12	17.99	17.89	17.89	19.70	4
		25	25	17.82	17.82	17.87	19.70	4
		50	0	17.98	17.93	17.90	19.70	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	21.99	21.88	21.89	23.70	0
		1	12	21.87	21.88	21.86	23.70	0
		1	24	21.87	21.90	22.00	23.70	0
		12	0	20.96	20.90	20.84	22.70	1
		12	6	20.98	20.93	20.94	22.70	1
		12	13	20.93	20.92	20.94	22.70	1
		25	0	20.90	20.86	20.93	22.70	1
	16-QAM	1	0	20.85	20.95	20.90	22.70	1
		1	12	20.81	20.94	20.85	22.70	1
		1	24	20.83	20.82	20.99	22.70	1
		12	0	19.95	19.91	19.98	21.70	2
		12	6	19.97	19.84	19.87	21.70	2
		12	13	19.82	19.92	19.81	21.70	2
		25	0	19.84	19.82	19.83	21.70	2
	64-QAM	1	0	19.94	19.96	19.84	21.70	2
		1	12	19.88	19.88	19.82	21.70	2
		1	24	19.98	19.93	19.84	21.70	2
		12	0	18.93	18.92	19.00	20.70	3
		12	6	18.90	18.88	18.86	20.70	3
		12	13	18.96	18.82	18.93	20.70	3
		25	0	18.90	18.97	18.99	20.70	3
	256-QAM	1	0	18.92	18.90	18.98	20.70	3
		1	12	18.85	18.81	18.95	20.70	3
		1	24	18.81	18.99	18.86	20.70	3
		12	0	17.86	17.96	17.96	19.70	4
		12	6	17.81	17.83	17.93	19.70	4
		12	13	17.95	17.91	17.97	19.70	4
		25	0	17.81	17.88	17.99	19.70	4

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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	22.21	22.69	22.04	22.03	22.02	23.70	0
		1	50	21.74	21.89	21.73	21.76	21.85	23.70	0
		1	99	21.85	21.90	21.88	21.80	21.77	23.70	0
		50	0	20.80	20.89	20.71	20.88	20.82	22.70	1
		50	25	20.81	20.88	20.79	20.82	20.76	22.70	1
		50	50	20.86	20.75	20.84	20.70	20.80	22.70	1
		100	0	20.85	20.89	20.82	20.80	20.73	22.70	1
	16-QAM	1	0	20.74	20.89	20.73	20.87	20.73	22.70	1
		1	50	20.87	20.84	20.88	20.77	20.77	22.70	1
		1	99	20.75	20.71	20.86	20.88	20.72	22.70	1
		50	0	19.80	19.89	19.90	19.87	19.79	21.70	2
		50	25	19.74	19.72	19.76	19.83	19.71	21.70	2
		50	50	19.79	19.77	19.72	19.76	19.88	21.70	2
		100	0	19.71	19.87	19.72	19.82	19.77	21.70	2
	64-QAM	1	0	19.88	19.81	19.72	19.71	19.84	21.70	2
		1	50	19.79	19.88	19.83	19.89	19.86	21.70	2
		1	99	19.81	19.88	19.80	19.83	19.73	21.70	2
		50	0	18.72	18.77	18.73	18.79	18.73	20.70	3
		50	25	18.87	18.80	18.80	18.79	18.82	20.70	3
		50	50	18.75	18.81	18.71	18.89	18.81	20.70	3
		100	0	18.83	18.87	18.86	18.75	18.74	20.70	3
	256-QAM	1	0	18.76	18.85	18.80	18.84	18.80	20.70	3
		1	50	18.86	18.73	18.70	18.79	18.83	20.70	3
		1	99	18.72	18.86	18.78	18.71	18.88	20.70	3
		50	0	17.75	17.82	17.89	17.87	17.84	19.70	4
		50	25	17.89	17.76	17.73	17.72	17.81	19.70	4
		50	50	17.76	17.81	17.78	17.75	17.89	19.70	4
		100	0	17.79	17.72	17.89	17.71	17.77	19.70	4

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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)			2503.5	2548.3	2593	2637.8	2682.5			
Channel			39725	40173	40620	41068	41515			
15	QPSK	1	0	21.80	21.81	21.77	21.73	21.81	23.70	0
		1	36	21.87	21.85	21.78	21.82	21.90	23.70	0
		1	74	21.76	21.79	21.81	21.72	21.88	23.70	0
		36	0	20.73	20.77	20.77	20.76	20.80	22.70	1
		36	18	20.81	20.75	20.78	20.82	20.86	22.70	1
		36	37	20.87	20.84	20.73	20.85	20.90	22.70	1
		75	0	20.89	20.75	20.83	20.84	20.88	22.70	1
	16-QAM	1	0	20.75	20.77	20.71	20.88	20.70	22.70	1
		1	36	20.83	20.75	20.89	20.74	20.78	22.70	1
		1	74	20.74	20.76	20.73	20.89	20.78	22.70	1
		36	0	19.77	19.79	19.85	19.75	19.83	21.70	2
		36	18	19.89	19.86	19.72	19.84	19.85	21.70	2
		36	37	19.88	19.89	19.78	19.80	19.90	21.70	2
		75	0	19.88	19.79	19.79	19.74	19.86	21.70	2
	64-QAM	1	0	19.79	19.79	19.89	19.82	19.76	21.70	2
		1	36	19.89	19.80	19.80	19.90	19.71	21.70	2
		1	74	19.75	19.83	19.72	19.74	19.77	21.70	2
		36	0	18.86	18.75	18.85	18.79	18.85	20.70	3
		36	18	18.74	18.84	18.77	18.87	18.83	20.70	3
		36	37	18.85	18.70	18.86	18.77	18.79	20.70	3
		75	0	18.90	18.81	18.82	18.73	18.89	20.70	3
	256-QAM	1	0	18.82	18.87	18.86	18.80	18.70	20.70	3
		1	36	18.76	18.88	18.84	18.88	18.80	20.70	3
		1	74	18.79	18.72	18.77	18.87	18.89	20.70	3
		36	0	17.70	17.84	17.81	17.81	17.79	19.70	4
		36	18	17.89	17.78	17.82	17.79	17.78	19.70	4
		36	37	17.73	17.83	17.87	17.87	17.86	19.70	4
		75	0	17.88	17.76	17.89	17.75	17.82	19.70	4

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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	21.80	21.88	21.86	21.74	21.76	23.70	0
		1	25	21.82	21.71	21.81	21.71	21.85	23.70	0
		1	49	21.88	21.81	21.85	21.74	21.83	23.70	0
		25	0	20.89	20.79	20.79	20.81	20.70	22.70	1
		25	12	20.83	20.76	20.72	20.89	20.70	22.70	1
		25	25	20.80	20.73	20.77	20.72	20.77	22.70	1
	16-QAM	50	0	20.85	20.74	20.80	20.77	20.90	22.70	1
		1	0	20.90	20.88	20.86	20.76	20.77	22.70	1
		1	25	20.82	20.75	20.84	20.81	20.83	22.70	1
		1	49	20.82	20.74	20.89	20.74	20.87	22.70	1
		25	0	19.90	19.83	19.71	19.82	19.87	21.70	2
		25	12	19.82	19.72	19.88	19.77	19.85	21.70	2
	64-QAM	25	25	19.72	19.87	19.78	19.84	19.75	21.70	2
		50	0	19.70	19.89	19.81	19.85	19.88	21.70	2
		1	0	19.77	19.74	19.73	19.82	19.79	21.70	2
		1	25	19.79	19.77	19.75	19.77	19.86	21.70	2
		1	49	19.77	19.78	19.76	19.70	19.81	21.70	2
		25	0	18.88	18.76	18.70	18.77	18.81	20.70	3
	256-QAM	25	12	18.74	18.85	18.82	18.83	18.81	20.70	3
		25	25	18.76	18.77	18.89	18.89	18.77	20.70	3
		50	0	18.82	18.89	18.85	18.74	18.76	20.70	3
		1	0	18.85	18.89	18.90	18.89	18.75	20.70	3
		1	25	18.74	18.77	18.74	18.78	18.79	20.70	3
		1	49	18.85	18.79	18.77	18.74	18.81	20.70	3
	25	0	17.74	17.74	17.79	17.73	17.78	19.70	4	
	25	12	17.84	17.82	17.79	17.90	17.77	19.70	4	
	25	25	17.80	17.90	17.73	17.89	17.84	19.70	4	
	50	0	17.83	17.88	17.81	17.84	17.73	19.70	4	

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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)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	21.80	21.86	21.90	21.79	21.77	23.70	0
		1	12	21.77	21.84	21.73	21.78	21.84	23.70	0
		1	24	21.75	21.87	21.86	21.90	21.89	23.70	0
		12	0	20.77	20.82	20.71	20.71	20.84	22.70	1
		12	6	20.87	20.85	20.85	20.72	20.87	22.70	1
		12	13	20.75	20.72	20.78	20.80	20.77	22.70	1
		25	0	20.71	20.76	20.73	20.75	20.84	22.70	1
	16-QAM	1	0	20.82	20.73	20.83	20.80	20.75	22.70	1
		1	12	20.88	20.75	20.73	20.88	20.72	22.70	1
		1	24	20.76	20.85	20.76	20.78	20.71	22.70	1
		12	0	19.86	19.89	19.80	19.87	19.81	21.70	2
		12	6	19.70	19.87	19.86	19.82	19.84	21.70	2
		12	13	19.87	19.83	19.81	19.86	19.80	21.70	2
		25	0	19.89	19.79	19.79	19.76	19.88	21.70	2
	64-QAM	1	0	19.86	19.72	19.88	19.71	19.80	21.70	2
		1	12	19.77	19.87	19.77	19.81	19.87	21.70	2
		1	24	19.86	19.70	19.74	19.81	19.77	21.70	2
		12	0	18.74	18.82	18.76	18.75	18.80	20.70	3
		12	6	18.81	18.71	18.80	18.71	18.71	20.70	3
		12	13	18.87	18.81	18.76	18.79	18.85	20.70	3
		25	0	18.79	18.88	18.81	18.78	18.79	20.70	3
	256-QAM	1	0	18.74	18.86	18.88	18.90	18.85	20.70	3
		1	12	18.72	18.71	18.78	18.81	18.77	20.70	3
		1	24	18.89	18.83	18.71	18.82	18.86	20.70	3
		12	0	17.85	17.81	17.89	17.82	17.84	19.70	4
		12	6	17.81	17.76	17.76	17.79	17.77	19.70	4
		12	13	17.84	17.71	17.77	17.82	17.83	19.70	4
		25	0	17.86	17.70	17.88	17.82	17.89	19.70	4

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TD LTE HOTSPOT DSI 13

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	22.32	22.50	22.02	22.70	0
		1	50	21.96	21.97	21.84	22.70	0
		1	99	21.83	21.87	21.91	22.70	0
		50	0	20.99	20.82	20.90	21.70	1
		50	25	20.92	20.87	20.87	21.70	1
		50	50	20.82	20.82	20.98	21.70	1
		100	0	20.88	20.81	20.82	21.70	1
	16-QAM	1	0	20.85	20.94	20.85	21.70	1
		1	50	21.00	20.95	20.94	21.70	1
		1	99	20.94	20.82	20.82	21.70	1
		50	0	19.93	19.91	19.93	20.70	2
		50	25	19.94	19.83	19.87	20.70	2
		50	50	19.82	19.89	19.91	20.70	2
		100	0	19.97	19.99	19.99	20.70	2
	64-QAM	1	0	19.85	19.89	20.00	20.70	2
		1	50	19.98	19.97	19.91	20.70	2
		1	99	19.96	19.84	19.97	20.70	2
		50	0	18.82	18.99	18.96	19.70	3
		50	25	18.83	18.95	18.82	19.70	3
		50	50	18.94	18.85	18.97	19.70	3
		100	0	18.95	18.96	18.81	19.70	3
	256-QAM	1	0	18.94	18.81	18.91	19.70	3
		1	50	18.95	18.86	18.82	19.70	3
		1	99	18.98	18.84	18.94	19.70	3
		50	0	17.81	17.99	17.89	18.70	4
		50	25	17.82	17.98	17.94	18.70	4
		50	50	17.82	17.86	17.95	18.70	4
		100	0	17.98	17.94	17.83	18.70	4

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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)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	22.00	21.95	21.95	22.70	0
		1	36	21.99	22.00	22.00	22.70	0
		1	74	21.83	22.00	21.92	22.70	0
		36	0	20.81	20.92	20.99	21.70	1
		36	18	20.86	20.90	20.87	21.70	1
		36	37	20.98	20.90	20.97	21.70	1
		75	0	20.99	20.85	20.96	21.70	1
	16-QAM	1	0	20.95	20.95	20.84	21.70	1
		1	36	20.84	20.89	20.91	21.70	1
		1	74	20.99	20.88	21.00	21.70	1
		36	0	19.82	19.91	19.95	20.70	2
		36	18	19.81	19.90	19.85	20.70	2
		36	37	19.83	19.95	19.94	20.70	2
		75	0	19.90	19.84	19.85	20.70	2
	64-QAM	1	0	19.96	19.90	19.85	20.70	2
		1	36	19.80	19.97	19.92	20.70	2
		1	74	19.87	19.98	19.92	20.70	2
		36	0	18.87	18.90	18.80	19.70	3
		36	18	18.88	18.84	18.88	19.70	3
		36	37	18.83	18.87	18.97	19.70	3
		75	0	18.94	18.96	18.84	19.70	3
	256-QAM	1	0	18.84	18.82	18.85	19.70	3
		1	36	18.96	18.97	18.84	19.70	3
		1	74	18.89	18.89	18.83	19.70	3
		36	0	17.92	18.00	17.83	18.70	4
		36	18	17.90	17.86	17.94	18.70	4
		36	37	17.83	17.97	17.98	18.70	4
		75	0	17.81	17.87	17.97	18.70	4

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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	21.83	21.94	21.97	22.70	0
		1	25	21.92	21.83	21.97	22.70	0
		1	49	21.92	21.84	21.90	22.70	0
		25	0	20.86	20.91	20.87	21.70	1
		25	12	20.91	20.94	20.94	21.70	1
		25	25	20.83	20.84	20.95	21.70	1
		50	0	20.82	20.92	20.91	21.70	1
	16-QAM	1	0	20.80	20.95	20.95	21.70	1
		1	25	20.87	20.92	20.93	21.70	1
		1	49	20.90	20.91	20.97	21.70	1
		25	0	19.87	19.80	20.00	20.70	2
		25	12	19.88	19.86	19.88	20.70	2
		25	25	19.88	19.95	19.85	20.70	2
		50	0	19.99	19.97	19.85	20.70	2
	64-QAM	1	0	19.91	19.96	19.88	20.70	2
		1	25	19.95	19.98	19.84	20.70	2
		1	49	19.97	19.86	19.98	20.70	2
		25	0	19.00	18.81	18.83	19.70	3
		25	12	18.87	18.89	18.84	19.70	3
		25	25	18.97	18.93	18.87	19.70	3
		50	0	18.81	18.94	18.85	19.70	3
	256-QAM	1	0	18.82	18.83	18.85	19.70	3
		1	25	18.91	18.94	18.92	19.70	3
		1	49	19.00	18.96	18.80	19.70	3
		25	0	18.00	17.92	17.95	18.70	4
		25	12	17.99	17.89	17.89	18.70	4
		25	25	17.82	17.82	17.87	18.70	4
		50	0	17.98	17.93	17.90	18.70	4

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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)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	21.99	21.88	21.89	22.70	0
		1	12	21.87	21.88	21.86	22.70	0
		1	24	21.87	21.90	22.00	22.70	0
		12	0	20.96	20.90	20.84	21.70	1
		12	6	20.98	20.93	20.94	21.70	1
		12	13	20.93	20.92	20.94	21.70	1
		25	0	20.90	20.86	20.93	21.70	1
	16-QAM	1	0	20.85	20.95	20.90	21.70	1
		1	12	20.81	20.94	20.85	21.70	1
		1	24	20.83	20.82	20.99	21.70	1
		12	0	19.95	19.91	19.98	20.70	2
		12	6	19.97	19.84	19.87	20.70	2
		12	13	19.82	19.92	19.81	20.70	2
		25	0	19.84	19.82	19.83	20.70	2
	64-QAM	1	0	19.94	19.96	19.84	20.70	2
		1	12	19.88	19.88	19.82	20.70	2
		1	24	19.98	19.93	19.84	20.70	2
		12	0	18.93	18.92	19.00	19.70	3
		12	6	18.90	18.88	18.86	19.70	3
		12	13	18.96	18.82	18.93	19.70	3
		25	0	18.90	18.97	18.99	19.70	3
	256-QAM	1	0	18.92	18.90	18.98	19.70	3
		1	12	18.85	18.81	18.95	19.70	3
		1	24	18.81	18.99	18.86	19.70	3
		12	0	17.86	17.96	17.96	18.70	4
		12	6	17.81	17.83	17.93	18.70	4
		12	13	17.95	17.91	17.97	18.70	4
		25	0	17.81	17.88	17.99	18.70	4

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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	22.21	22.69	22.04	22.03	22.02	22.70	0
		1	50	21.74	21.89	21.73	21.76	21.85	22.70	0
		1	99	21.85	21.90	21.88	21.80	21.77	22.70	0
		50	0	20.80	20.89	20.71	20.88	20.82	21.70	1
		50	25	20.81	20.88	20.79	20.82	20.76	21.70	1
		50	50	20.86	20.75	20.84	20.70	20.80	21.70	1
	16-QAM	100	0	20.85	20.89	20.82	20.80	20.73	21.70	1
		1	0	20.74	20.89	20.73	20.87	20.73	21.70	1
		1	50	20.87	20.84	20.88	20.77	20.77	21.70	1
		1	99	20.75	20.71	20.86	20.88	20.72	21.70	1
		50	0	19.80	19.89	19.90	19.87	19.79	20.70	2
		50	25	19.74	19.72	19.76	19.83	19.71	20.70	2
	64-QAM	50	50	19.79	19.77	19.72	19.76	19.88	20.70	2
		100	0	19.71	19.87	19.72	19.82	19.77	20.70	2
		1	0	19.88	19.81	19.72	19.71	19.84	20.70	2
		1	50	19.79	19.88	19.83	19.89	19.86	20.70	2
		1	99	19.81	19.88	19.80	19.83	19.73	20.70	2
		50	0	18.72	18.77	18.73	18.79	18.73	19.70	3
	256-QAM	50	25	18.87	18.80	18.80	18.79	18.82	19.70	3
		50	50	18.75	18.81	18.71	18.89	18.81	19.70	3
		100	0	18.83	18.87	18.86	18.75	18.74	19.70	3
		1	0	18.76	18.85	18.80	18.84	18.80	19.70	3
		1	50	18.86	18.73	18.70	18.79	18.83	19.70	3
		1	99	18.72	18.86	18.78	18.71	18.88	19.70	3
		50	0	17.75	17.82	17.89	17.87	17.84	18.70	4
		50	25	17.89	17.76	17.73	17.72	17.81	18.70	4
		50	50	17.76	17.81	17.78	17.75	17.89	18.70	4
		100	0	17.79	17.72	17.89	17.71	17.77	18.70	4

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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)				2503.5	2548.3	2593	2637.8	2682.5		
Channel				39725	40173	40620	41068	41515		
15	QPSK	1	0	21.80	21.81	21.77	21.73	21.81	22.70	0
		1	36	21.87	21.85	21.78	21.82	21.90	22.70	0
		1	74	21.76	21.79	21.81	21.72	21.88	22.70	0
		36	0	20.73	20.77	20.77	20.76	20.80	21.70	1
		36	18	20.81	20.75	20.78	20.82	20.86	21.70	1
		36	37	20.87	20.84	20.73	20.85	20.90	21.70	1
		75	0	20.89	20.75	20.83	20.84	20.88	21.70	1
	16-QAM	1	0	20.75	20.77	20.71	20.88	20.70	21.70	1
		1	36	20.83	20.75	20.89	20.74	20.78	21.70	1
		1	74	20.74	20.76	20.73	20.89	20.78	21.70	1
		36	0	19.77	19.79	19.85	19.75	19.83	20.70	2
		36	18	19.89	19.86	19.72	19.84	19.85	20.70	2
		36	37	19.88	19.89	19.78	19.80	19.90	20.70	2
	64-QAM	75	0	19.88	19.79	19.79	19.74	19.86	20.70	2
		1	0	19.79	19.79	19.89	19.82	19.76	20.70	2
		1	36	19.89	19.80	19.80	19.90	19.71	20.70	2
		1	74	19.75	19.83	19.72	19.74	19.77	20.70	2
		36	0	18.86	18.75	18.85	18.79	18.85	19.70	3
		36	18	18.74	18.84	18.77	18.87	18.83	19.70	3
		36	37	18.85	18.70	18.86	18.77	18.79	19.70	3
	256-QAM	75	0	18.90	18.81	18.82	18.73	18.89	19.70	3
		1	0	18.82	18.87	18.86	18.80	18.70	19.70	3
		1	36	18.76	18.88	18.84	18.88	18.80	19.70	3
		1	74	18.79	18.72	18.77	18.87	18.89	19.70	3
		36	0	17.70	17.84	17.81	17.81	17.79	18.70	4
		36	18	17.89	17.78	17.82	17.79	17.78	18.70	4
		36	37	17.73	17.83	17.87	17.87	17.86	18.70	4
		75	0	17.88	17.76	17.89	17.75	17.82	18.70	4

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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	21.80	21.88	21.86	21.74	21.76	22.70	0
		1	25	21.82	21.71	21.81	21.71	21.85	22.70	0
		1	49	21.88	21.81	21.85	21.74	21.83	22.70	0
		25	0	20.89	20.79	20.79	20.81	20.70	21.70	1
		25	12	20.83	20.76	20.72	20.89	20.70	21.70	1
		25	25	20.80	20.73	20.77	20.72	20.77	21.70	1
	16-QAM	50	0	20.85	20.74	20.80	20.77	20.90	21.70	1
		1	0	20.90	20.88	20.86	20.76	20.77	21.70	1
		1	25	20.82	20.75	20.84	20.81	20.83	21.70	1
		1	49	20.82	20.74	20.89	20.74	20.87	21.70	1
		25	0	19.90	19.83	19.71	19.82	19.87	20.70	2
		25	12	19.82	19.72	19.88	19.77	19.85	20.70	2
	64-QAM	25	25	19.72	19.87	19.78	19.84	19.75	20.70	2
		50	0	19.70	19.89	19.81	19.85	19.88	20.70	2
		1	0	19.77	19.74	19.73	19.82	19.79	20.70	2
		1	25	19.79	19.77	19.75	19.77	19.86	20.70	2
		1	49	19.77	19.78	19.76	19.70	19.81	20.70	2
		25	0	18.88	18.76	18.70	18.77	18.81	19.70	3
	256-QAM	25	12	18.74	18.85	18.82	18.83	18.81	19.70	3
		25	25	18.76	18.77	18.89	18.89	18.77	19.70	3
		50	0	18.82	18.89	18.85	18.74	18.76	19.70	3
		1	0	18.85	18.89	18.90	18.89	18.75	19.70	3
		1	25	18.74	18.77	18.74	18.78	18.79	19.70	3
		1	49	18.85	18.79	18.77	18.74	18.81	19.70	3
		25	0	17.74	17.74	17.79	17.73	17.78	18.70	4
		25	12	17.84	17.82	17.79	17.90	17.77	18.70	4
		25	25	17.80	17.90	17.73	17.89	17.84	18.70	4
		50	0	17.83	17.88	17.81	17.84	17.73	18.70	4

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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)				2498.5	2545.8	2593	2640.3	2687.5		
Channel				39675	40148	40620	41093	41565		
5	QPSK	1	0	21.80	21.86	21.90	21.79	21.77	22.70	0
		1	12	21.77	21.84	21.73	21.78	21.84	22.70	0
		1	24	21.75	21.87	21.86	21.90	21.89	22.70	0
		12	0	20.77	20.82	20.71	20.71	20.84	21.70	1
		12	6	20.87	20.85	20.85	20.72	20.87	21.70	1
		12	13	20.75	20.72	20.78	20.80	20.77	21.70	1
		25	0	20.71	20.76	20.73	20.75	20.84	21.70	1
	16-QAM	1	0	20.82	20.73	20.83	20.80	20.75	21.70	1
		1	12	20.88	20.75	20.73	20.88	20.72	21.70	1
		1	24	20.76	20.85	20.76	20.78	20.71	21.70	1
		12	0	19.86	19.89	19.80	19.87	19.81	20.70	2
		12	6	19.70	19.87	19.86	19.82	19.84	20.70	2
		12	13	19.87	19.83	19.81	19.86	19.80	20.70	2
		25	0	19.89	19.79	19.79	19.76	19.88	20.70	2
	64-QAM	1	0	19.86	19.72	19.88	19.71	19.80	20.70	2
		1	12	19.77	19.87	19.77	19.81	19.87	20.70	2
		1	24	19.86	19.70	19.74	19.81	19.77	20.70	2
		12	0	18.74	18.82	18.76	18.75	18.80	19.70	3
		12	6	18.81	18.71	18.80	18.71	18.71	19.70	3
		12	13	18.87	18.81	18.76	18.79	18.85	19.70	3
		25	0	18.79	18.88	18.81	18.78	18.79	19.70	3
	256-QAM	1	0	18.74	18.86	18.88	18.90	18.85	19.70	3
		1	12	18.72	18.71	18.78	18.81	18.77	19.70	3
		1	24	18.89	18.83	18.71	18.82	18.86	19.70	3
		12	0	17.85	17.81	17.89	17.82	17.84	18.70	4
		12	6	17.81	17.76	17.76	17.79	17.77	18.70	4
		12	13	17.84	17.71	17.77	17.82	17.83	18.70	4
		25	0	17.86	17.70	17.88	17.82	17.89	18.70	4

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1.3.7 Ant 9

WLAN Full power

Ant 9						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	19.00	18.98
		2	2417		19.00	18.85
		6	2437		19.00	18.87
		10	2457		19.00	18.70
		11	2462		19.00	18.77
	802.11g	1	2412	6Mbps	16.50	16.21
		2	2417		18.50	18.32
		6	2437		20.00	19.70
		10	2457		17.50	17.33
		11	2462		14.50	14.37
	802.11n20-HT0	1	2412	MCS0	16.50	16.26
		2	2417		18.50	18.40
		6	2437		20.00	19.79
		10	2457		17.50	17.24
	802.11n40-HT0	3	2422	MCS0	14.50	14.35
		4	2427		16.00	15.87
		6	2437		16.00	15.76
		8	2447		14.00	13.85
		9	2452		12.00	11.82

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WLAN Head

Ant 9						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	15.99
		2	2417		16.00	15.83
		6	2437		16.00	15.92
		10	2457		16.00	15.80
		11	2462		16.00	15.85
	802.11g	1	2412	6Mbps	16.00	15.81
		2	2417		16.00	15.72
		6	2437		16.00	15.78
		10	2457		16.00	15.85
		11	2462		14.50	14.37
	802.11n20-HT0	1	2412	MCS0	16.00	15.87
		2	2417		16.00	15.88
		6	2437		16.00	15.71
		10	2457		16.00	15.81
		11	2462		14.50	14.23
	802.11n40-HT0	3	2422	MCS0	14.50	14.35
		4	2427		16.00	15.87
		6	2437		16.00	15.76
		8	2447		14.00	13.85
		9	2452		12.00	11.82

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WLAN Hotspot

Ant 9						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.93
		2	2417		18.00	17.72
		6	2437		18.00	17.83
		10	2457		18.00	17.77
		11	2462		18.00	17.80
	802.11g	1	2412	6Mbps	16.50	16.23
		2	2417		18.00	17.74
		6	2437		18.00	17.89
		10	2457		17.50	17.38
		11	2462		14.50	14.37
	802.11n20-HT0	1	2412	MCS0	16.50	16.33
		2	2417		18.00	17.70
		6	2437		18.00	17.71
		10	2457		17.50	17.24
		11	2462		14.50	14.23
	802.11n40-HT0	3	2422	MCS0	14.50	14.35
		4	2427		16.00	15.87
		6	2437		16.00	15.76
		8	2447		14.00	13.85
		9	2452		12.00	11.82

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1.3.8 Ant 8

WLAN Full power

Ant 8						
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	15.50	15.49
		40	5200		19.00	18.93
		44	5220		19.00	18.83
		48	5240		19.00	18.98
	802.11n20-HT0	36	5180	MCS0	15.50	15.43
		40	5200		19.00	18.93
		44	5220		19.00	18.81
		48	5240		19.00	18.84
	802.11ac20-VHT0	36	5180	MCS0	15.50	15.36
		40	5200		18.50	18.36
		44	5220		18.50	18.30
		48	5240		18.50	18.26
	802.11n40-HT0	38	5190	MCS0	10.50	10.48
		46	5230		18.00	17.81
	802.11ac40-VHT0	38	5190	MCS0	10.50	10.34
		46	5230		18.00	17.76
802.11ac80-VHT0	42	5210	MCS0	11.00	10.90	

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Ant 8						
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	19.00	18.99
		56	5280		19.00	18.82
		60	5300		19.00	18.97
		64	5320		16.50	16.47
	802.11n20-HT0	52	5260	MCS0	19.00	18.86
		56	5280		19.00	18.88
		60	5300		19.00	18.77
		64	5320		16.50	16.38
	802.11ac20-VHT0	52	5260	MCS0	18.50	18.29
		56	5280		18.50	18.39
		60	5300		18.50	18.35
		64	5320		16.50	16.31
	802.11n40-HT0	54	5270	MCS0	18.00	17.92
		62	5310		11.00	10.87
	802.11ac40-VHT0	54	5270	MCS0	18.00	17.85
		62	5310		11.00	10.83
802.11ac80-VHT0	58	5290	MCS0	11.00	10.90	

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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

Ant 8						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	15.00	14.92
		120	5600		19.00	18.94
		140	5700		13.00	12.76
		144	5720		19.00	18.99
	802.11n20-HT0	100	5500	MCS0	15.00	14.81
		120	5600		19.00	18.81
		140	5700		13.00	12.93
		144	5720		19.00	18.76
	802.11ac20-VHT0	100	5500	MCS0	15.00	14.78
		120	5600		18.50	18.27
		140	5700		14.00	13.95
		144	5720		18.50	18.38
	802.11n40-HT0	102	5510	MCS0	12.50	12.40
		118	5590		18.00	17.83
		134	5670		16.00	15.88
		142	5710		18.00	17.93
	802.11ac40-VHT0	102	5510	MCS0	12.50	12.40
		118	5590		18.00	17.87
		134	5670		16.00	15.80
		142	5710		18.00	17.78
	802.11ac80-VHT0	106	5530	MCS0	11.00	11.00
		122	5610		17.50	17.32
		138	5690		17.50	17.30
	Ant 8					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	19.00	18.97
		157	5785		19.00	18.89
		165	5825		19.00	18.82
	802.11n20-HT0	149	5745	MCS0	19.00	18.82
		157	5785		19.00	18.91
		165	5825		19.00	18.88
	802.11ac20-VHT0	149	5745	MCS0	18.50	18.26
		157	5785		18.50	18.42
		165	5825		18.50	18.39
	802.11n40-HT0	151	5755	MCS0	18.00	17.80
		159	5795		18.00	17.86
	802.11ac40-VHT0	151	5755	MCS0	18.00	17.92
		159	5795		18.00	17.93
	802.11ac80-VHT0	155	5775	MCS0	17.50	17.37

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WLAN Head

Ant 8						
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	14.85
		40	5200		15.00	14.82
		44	5220		15.00	14.91
		48	5240		15.00	14.79
	802.11n20-HT0	36	5180	MCS0	15.00	14.89
		40	5200		15.00	14.80
		44	5220		15.00	14.90
		48	5240		15.00	14.95
	802.11ac20-VHT0	36	5180	MCS0	15.00	14.84
		40	5200		15.00	14.90
		44	5220		15.00	14.90
		48	5240		15.00	14.77
	802.11n40-HT0	38	5190	MCS0	10.50	10.48
		46	5230		15.00	15.00
	802.11ac40-VHT0	38	5190	MCS0	10.50	10.34
		46	5230		15.00	14.79
802.11ac80-VHT0	42	5210	MCS0	11.00	10.90	
Ant 8						
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	14.87
		56	5280		15.00	14.76
		60	5300		15.00	14.93
		64	5320		15.00	14.93
	802.11n20-HT0	52	5260	MCS0	15.00	14.83
		56	5280		15.00	14.91
		60	5300		15.00	14.80
		64	5320		15.00	14.83
	802.11ac20-VHT0	52	5260	MCS0	15.00	14.84
		56	5280		15.00	14.91
		60	5300		15.00	14.94
		64	5320		15.00	14.90
	802.11n40-HT0	54	5270	MCS0	15.00	14.82
		62	5310		11.00	10.87
	802.11ac40-VHT0	54	5270	MCS0	15.00	14.76
		62	5310		11.00	10.83
802.11ac80-VHT0	58	5290	MCS0	11.00	10.90	

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Ant 8							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
5.6GHz	802.11a	100	5500	6Mbps	15.00	14.92	
		120	5600		15.00	14.90	
		140	5700		13.00	12.76	
		144	5720		15.00	14.86	
	802.11n20-HT0	100	5500	MCS0	15.00	14.81	
		120	5600		15.00	14.87	
		140	5700		13.00	12.93	
		144	5720		15.00	14.79	
	802.11ac20-VHT0	100	5500	MCS0	15.00	14.78	
		120	5600		15.00	14.84	
		140	5700		14.00	13.95	
		144	5720		15.00	14.80	
	802.11n40-HT0	102	5510	MCS0	12.50	12.40	
		118	5590		15.00	14.94	
		134	5670		15.00	14.92	
		142	5710		15.00	14.75	
	802.11ac40-VHT0	102	5510	MCS0	12.50	12.40	
		118	5590		15.00	14.86	
		134	5670		15.00	14.77	
		142	5710		15.00	14.87	
	802.11ac80-VHT0	106	5530	MCS0	11.00	11.00	
		122	5610		15.00	14.81	
		138	5690		15.00	14.86	
	Ant 8						
	Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
	5.8GHz	802.11a	149	5745	6Mbps	15.00	14.82
			157	5785		15.00	14.85
			165	5825		15.00	14.89
802.11n20-HT0		149	5745	MCS0	15.00	14.88	
		157	5785		15.00	14.86	
		165	5825		15.00	14.76	
802.11ac20-VHT0		149	5745	MCS0	15.00	14.87	
		157	5785		15.00	14.89	
		165	5825		15.00	14.93	
802.11n40-HT0		151	5755	MCS0	15.00	14.87	
		159	5795		15.00	14.91	
802.11ac40-VHT0		151	5755	MCS0	15.00	14.88	
		159	5795		15.00	14.79	
802.11ac80-VHT0		155	5775	MCS0	15.00	15.00	

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WLAN Hotspot

Ant 8						
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	15.50	15.34
		40	5200		17.00	16.83
		44	5220		17.00	16.79
		48	5240		17.00	16.79
	802.11n20-HT0	36	5180	MCS0	15.50	15.34
		40	5200		17.00	16.82
		44	5220		17.00	16.84
		48	5240		17.00	16.83
	802.11ac20-VHT0	36	5180	MCS0	15.50	15.27
		40	5200		17.00	16.84
		44	5220		17.00	16.77
		48	5240		17.00	16.84
	802.11n40-HT0	38	5190	MCS0	10.50	10.48
		46	5230		17.00	16.90
	802.11ac40-VHT0	38	5190	MCS0	10.50	10.34
		46	5230		17.00	16.76
802.11ac80-VHT0	42	5210	MCS0	11.00	10.90	
Ant 8						
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	17.00	16.84
		56	5280		17.00	16.85
		60	5300		17.00	16.87
		64	5320		16.50	16.34
	802.11n20-HT0	52	5260	MCS0	17.00	16.89
		56	5280		17.00	16.77
		60	5300		17.00	16.76
		64	5320		16.50	16.35
	802.11ac20-VHT0	52	5260	MCS0	17.00	16.76
		56	5280		17.00	16.75
		60	5300		17.00	16.83
		64	5320		16.50	16.31
	802.11n40-HT0	54	5270	MCS0	17.00	17.00
		62	5310		11.00	10.85
	802.11ac40-VHT0	54	5270	MCS0	17.00	16.77
		62	5310		11.00	10.83
802.11ac80-VHT0	58	5290	MCS0	11.00	10.90	

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Ant 8						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	15.00	14.92
		120	5600		17.00	16.86
		140	5700		13.00	12.76
		144	5720		17.00	16.79
	802.11n20-HT0	100	5500	MCS0	15.00	14.81
		120	5600		17.00	16.85
		140	5700		13.00	12.93
		144	5720		17.00	16.84
	802.11ac20-VHT0	100	5500	MCS0	15.00	14.78
		120	5600		17.00	16.77
		140	5700		14.00	13.95
		144	5720		17.00	16.94
	802.11n40-HT0	102	5510	MCS0	12.50	12.40
		118	5590		17.00	16.89
		134	5670		16.00	15.77
		142	5710		17.00	16.83
	802.11ac40-VHT0	102	5510	MCS0	15.00	14.75
		118	5590		17.00	16.83
		134	5670		16.00	15.92
		142	5710		17.00	16.78
	802.11ac80-VHT0	106	5530	MCS0	11.00	10.94
		122	5610		17.00	16.86
		138	5690		17.00	17.00
	Ant 8					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	17.00	16.92
		157	5785		17.00	16.82
		165	5825		17.00	16.92
	802.11n20-HT0	149	5745	MCS0	17.00	16.79
		157	5785		17.00	16.89
		165	5825		17.00	16.81
	802.11ac20-VHT0	149	5745	MCS0	17.00	16.80
		157	5785		17.00	16.88
		165	5825		17.00	16.93
	802.11n40-HT0	151	5755	MCS0	17.00	16.85
		159	5795		17.00	16.76
	802.11ac40-VHT0	151	5755	MCS0	17.00	16.83
		159	5795		17.00	16.83
	802.11ac80-VHT0	155	5775	MCS0	17.00	16.85

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1.3.8 Bluetooth conducted power table (Ant 9)

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	14.50	12.83	11.50	11.20	11.50	11.17
	CH 39	2441		12.62		11.08		11.06
	CH 78	2480		12.55		11.15		10.58
Mode	Channel	Frequency (MHz)	GFSK					
			Max. Rated Avg. Power + Max. Tolerance (dBm)			Average Output Power (dBm)		
BLE_1M	CH 00	2402	10.5			4.88		
	CH 19	2440				6.04		
	CH 39	2480				6.23		
Mode	Channel	Frequency (MHz)	GFSK					
			Max. Rated Avg. Power + Max. Tolerance (dBm)			Average Output Power (dBm)		
BLE_2M	CH 00	2402	10.5			2.15		
	CH 19	2440				3.31		
	CH 39	2480				3.45		

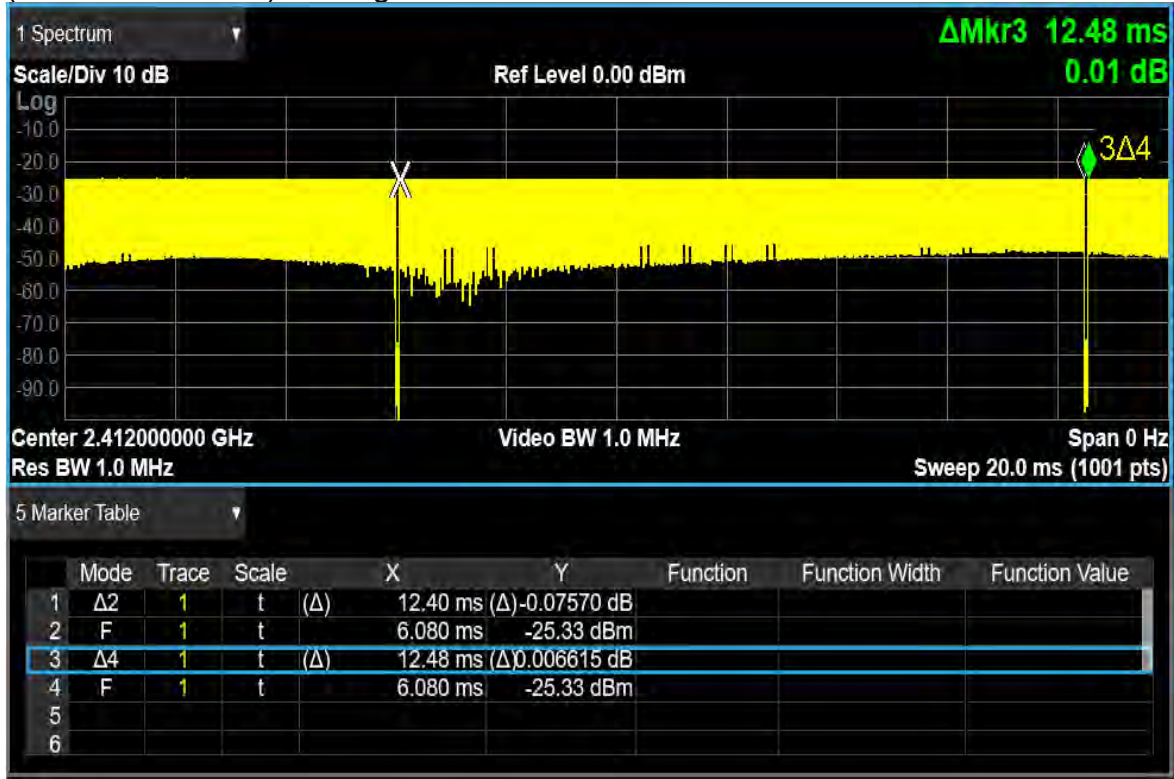
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2.4G b duty

(12.4/12.48=0.994) Scaling Factor=1.006



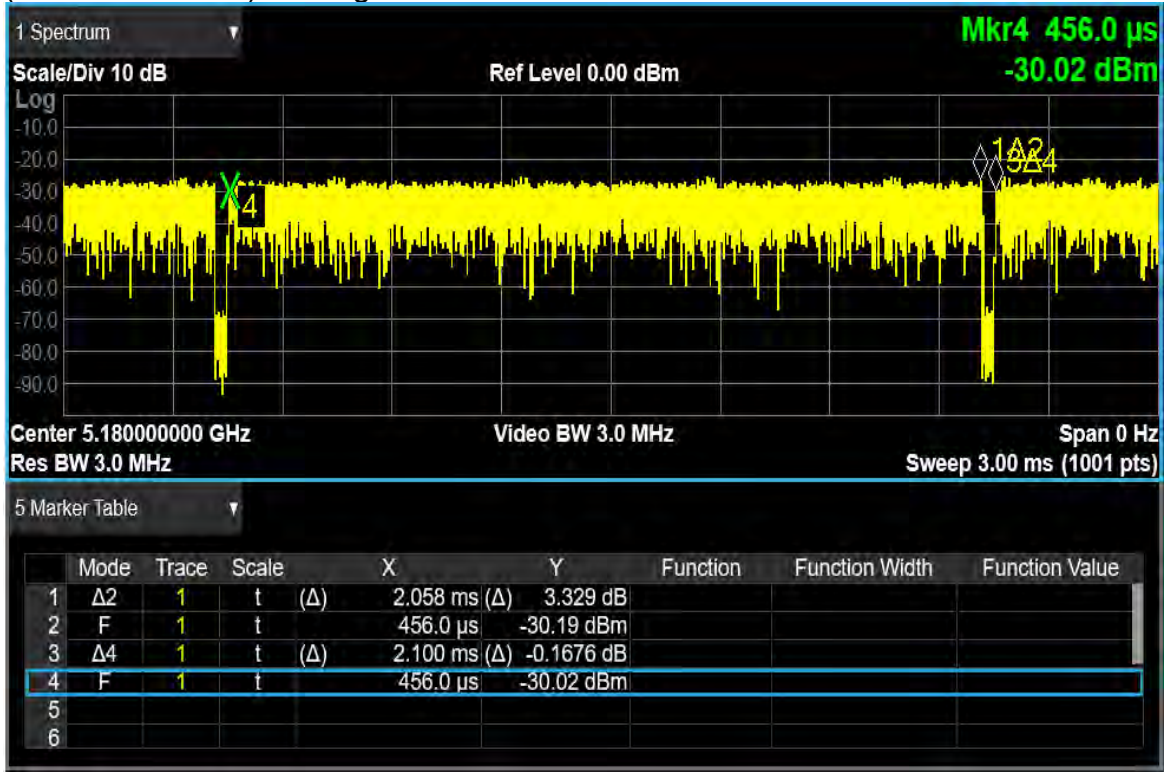
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5G a duty

(2.058/2.10=0.98) Scaling Factor=1.020



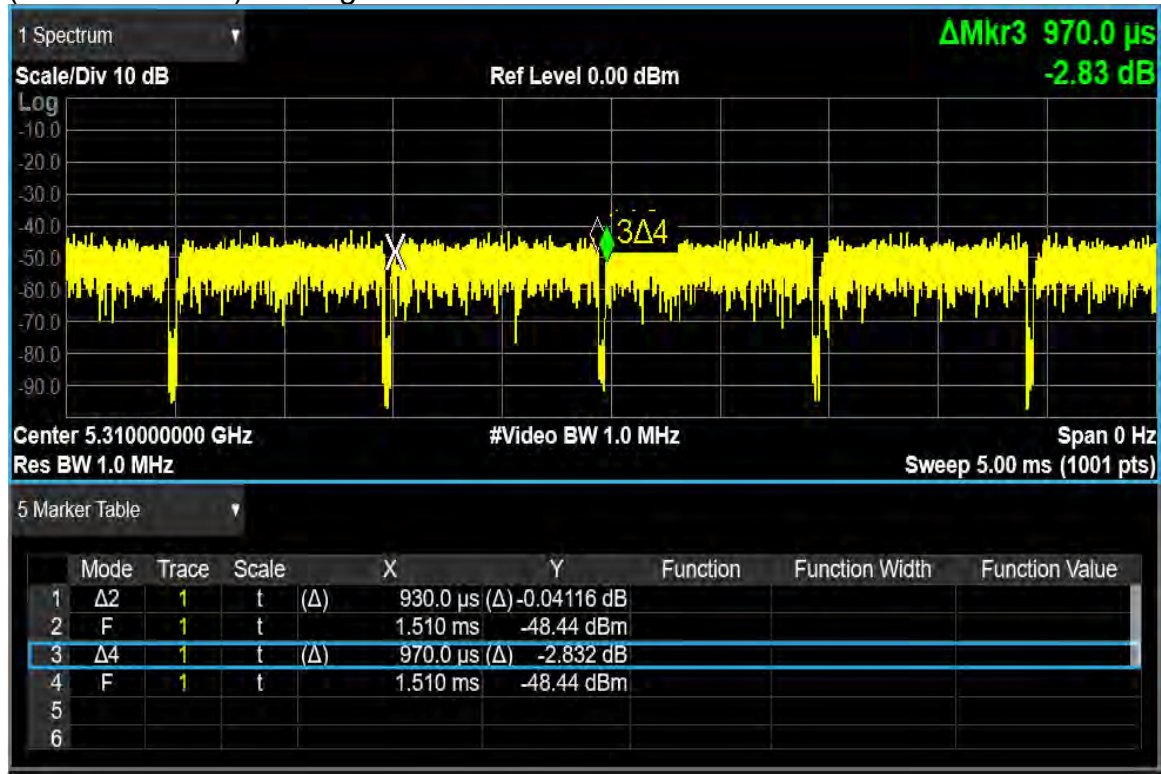
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5G n(40M) duty

(930/970=0.966) Scaling Factor=1.035



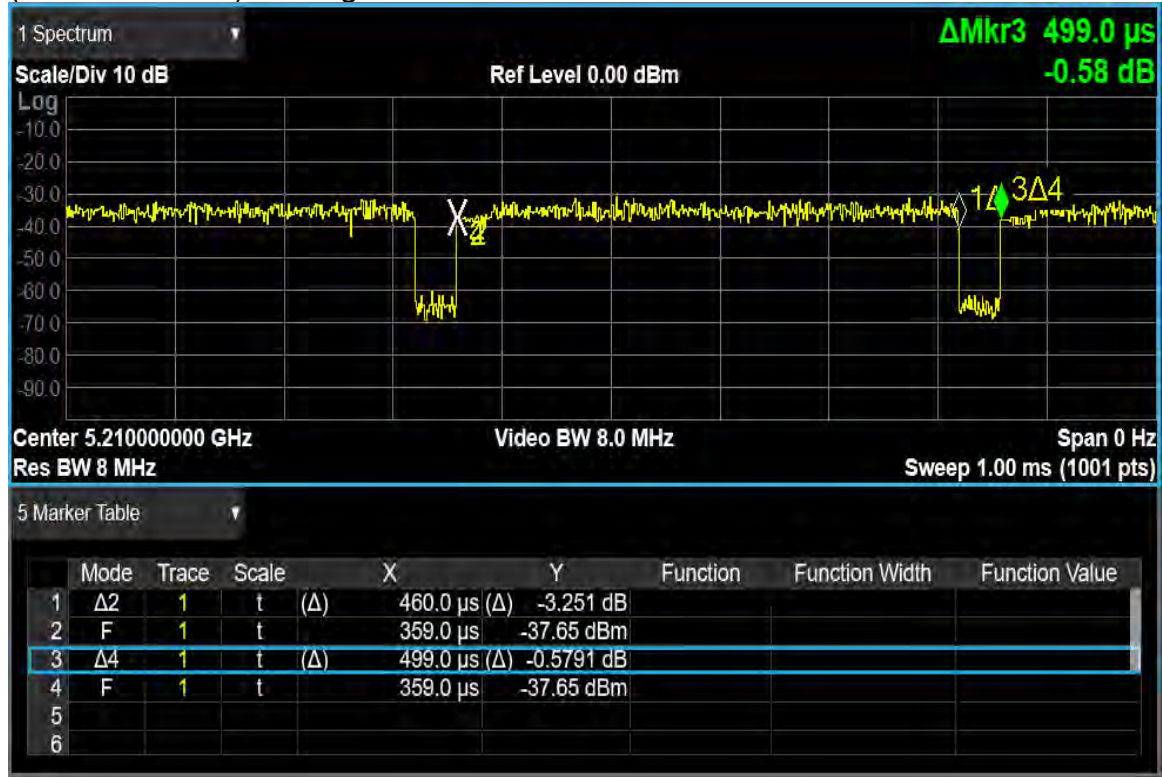
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5G ac(80M) duty

(460/499=0.922) Scaling Factor=1.085



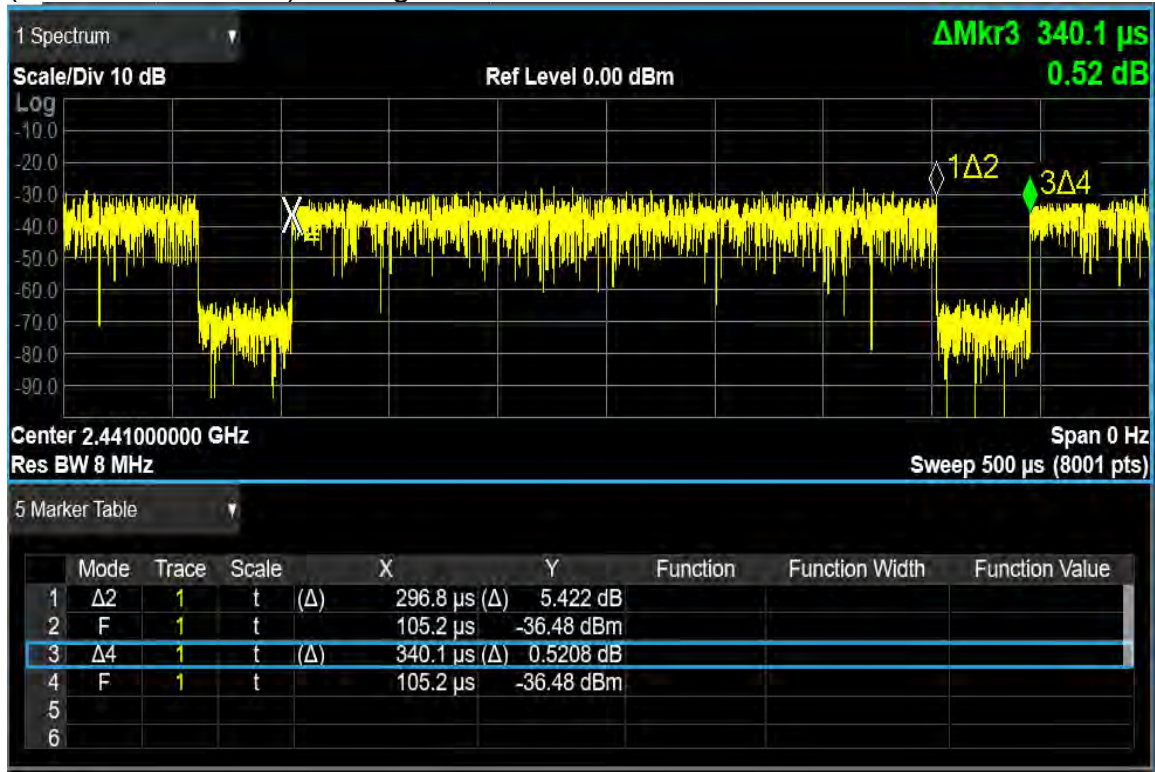
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BT duty

(296.8/340.1=0.873) Scaling Factor=1.145



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1.3.9 Intra-band ULCA power table

UL 2CA_DSI8_ant0

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	2560	21350	1	50	20	QPSK	2540.2	21152	1	99	0	21.89	23.70
20	QPSK	2510	20850	1	50	20	QPSK	2529.8	21048	1	0	0	21.85	23.70

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	2560	21350	1	50	15	QPSK	2542.9	21179	1	74	0	21.81	23.70
20	QPSK	2510	20850	1	50	15	QPSK	2527.1	21021	1	0	0	21.87	23.70

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	2562.5	21375	1	74	15	QPSK	2547.5	21225	1	0	0	21.83	23.70
15	QPSK	2507.5	20825	1	0	15	QPSK	2522.5	20975	1	74	0	21.85	23.70

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	2562.5	21375	1	74	10	QPSK	2519.5	20945	1	0	0	21.83	23.70

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	2560	21350	1	50	10	QPSK	2524.4	20994	1	0	0	21.82	23.70

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CA_41C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	23.17	24.70
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	23.11	24.70

CA_41C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	23.04	24.70
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	23.15	24.70

CA_41C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	23.04	24.70
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	23.04	24.70

CA_41C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	23.02	24.70
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	23.13	24.70

CA_41C														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	23.02	24.70
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	23.09	24.70

CA_41C														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	23.11	24.70
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	23.02	24.70

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UL 2CA_DSI13_ant0

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	2560	21350	1	50	20	QPSK	2540.2	21152	1	99	0	19.67	21.20
20	QPSK	2510	20850	1	50	20	QPSK	2529.8	21048	1	0	0	19.54	21.20

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	2560	21350	1	50	15	QPSK	2542.9	21179	1	74	0	19.60	21.20
20	QPSK	2510	20850	1	50	15	QPSK	2527.1	21021	1	0	0	19.59	21.20

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	2562.5	21375	1	74	15	QPSK	2547.5	21225	1	0	0	19.60	21.20
15	QPSK	2507.5	20825	1	0	15	QPSK	2522.5	20975	1	74	0	19.48	21.20

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	2562.5	21375	1	74	10	QPSK	2519.5	20945	1	0	0	19.60	21.20

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	2560	21350	1	50	10	QPSK	2524.4	20994	1	0	0	19.66	21.20

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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	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	23.17	24.70	
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	23.11	24.70	

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	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	23.04	24.70	
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	23.15	24.70	

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	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	23.04	24.70	
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	23.04	24.70	

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	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	23.02	24.70	
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	23.13	24.70	

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	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	23.02	24.70	
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	23.09	24.70	

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	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	23.11	24.70	
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	23.02	24.70	

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UL 2CA_DSI3_ant0

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	2560	21350	1	50	20	QPSK	2540.2	21152	1	99	0	21.89	23.70
20	QPSK	2510	20850	1	50	20	QPSK	2529.8	21048	1	0	0	21.85	23.70

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	2560	21350	1	50	15	QPSK	2542.9	21179	1	74	0	21.81	23.70
20	QPSK	2510	20850	1	50	15	QPSK	2527.1	21021	1	0	0	21.87	23.70

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	2562.5	21375	1	74	15	QPSK	2547.5	21225	1	0	0	21.83	23.70
15	QPSK	2507.5	20825	1	0	15	QPSK	2522.5	20975	1	74	0	21.85	23.70

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	2562.5	21375	1	74	10	QPSK	2519.5	20945	1	0	0	21.83	23.70

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	2560	21350	1	50	10	QPSK	2524.4	20994	1	0	0	21.82	23.70

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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	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	23.17	24.70	
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	23.11	24.70	

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	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	23.04	24.70	
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	23.15	24.70	

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	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	23.04	24.70	
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	23.04	24.70	

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	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	23.02	24.70	
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	23.13	24.70	

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	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	23.02	24.70	
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	23.09	24.70	

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	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	23.11	24.70	
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	23.02	24.70	

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UL 2CA_DSI8_ant3

CA_41C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	22.84	24.20
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	22.61	24.20

CA_41C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	22.81	24.20
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	22.71	24.20

CA_41C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	22.74	24.20
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	22.83	24.20

CA_41C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	22.59	24.20
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	22.79	24.20

CA_41C														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	22.76	24.20
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	22.82	24.20

CA_41C														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	22.83	24.20
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	22.70	24.20

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UL 2CA_DSI13_ant3

CA_41C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	22.84	24.20
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	22.61	24.20

CA_41C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	22.81	24.20
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	22.71	24.20

CA_41C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	22.74	24.20
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	22.83	24.20

CA_41C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	22.59	24.20
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	22.79	24.20

CA_41C														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	22.76	24.20
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	22.82	24.20

CA_41C														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	22.83	24.20
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	22.70	24.20

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UL 2CA_DSI3_ant3

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	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	22.84	24.20	
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	22.61	24.20	

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	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	22.81	24.20	
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	22.71	24.20	

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	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	22.74	24.20	
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	22.83	24.20	

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	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	22.59	24.20	
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	22.79	24.20	

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	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	22.76	24.20	
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	22.82	24.20	

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	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	22.83	24.20	
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	22.70	24.20	

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UL 2CA_DSI8_ant4

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	2560	21350	1	50	20	QPSK	2540.2	21152	1	99	0	19.35	21.00
20	QPSK	2510	20850	1	50	20	QPSK	2529.8	21048	1	0	0	19.31	21.00

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	2560	21350	1	50	15	QPSK	2542.9	21179	1	74	0	19.31	21.00
20	QPSK	2510	20850	1	50	15	QPSK	2527.1	21021	1	0	0	19.33	21.00

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	2562.5	21375	1	74	15	QPSK	2547.5	21225	1	0	0	19.32	21.00
15	QPSK	2507.5	20825	1	0	15	QPSK	2522.5	20975	1	74	0	19.29	21.00

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	2562.5	21375	1	74	10	QPSK	2519.5	20945	1	0	0	19.23	21.00

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	2560	21350	1	50	10	QPSK	2524.4	20994	1	0	0	19.31	21.00

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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	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	21.78	23.20
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	21.64	23.20

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	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	21.66	23.20
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	21.62	23.20

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	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	21.63	23.20
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	21.56	23.20

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	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	21.71	23.20
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	21.64	23.20

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	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	21.69	23.20
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	21.71	23.20

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	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	21.65	23.20
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	21.67	23.20

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UL 2CA_DSI13_ant4

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	2560	21350	1	50	20	QPSK	2540.2	21152	1	99	0	21.98	23.70
20	QPSK	2510	20850	1	50	20	QPSK	2529.8	21048	1	0	0	21.80	23.70

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	2560	21350	1	50	15	QPSK	2542.9	21179	1	74	0	21.84	23.70
20	QPSK	2510	20850	1	50	15	QPSK	2527.1	21021	1	0	0	21.86	23.70

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	2562.5	21375	1	74	15	QPSK	2547.5	21225	1	0	0	21.78	23.70
15	QPSK	2507.5	20825	1	0	15	QPSK	2522.5	20975	1	74	0	21.81	23.70

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	2562.5	21375	1	74	10	QPSK	2519.5	20945	1	0	0	21.79	23.70

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	2560	21350	1	50	10	QPSK	2524.4	20994	1	0	0	21.72	23.70

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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	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	23.17	23.20
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	22.97	23.20

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	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	23.16	23.20
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	23.09	23.20

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	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	23.15	23.20
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	23.13	23.20

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	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	23.06	23.20
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	22.93	23.20

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	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	22.94	23.20
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	23.04	23.20

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	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	23.01	23.20
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	23.12	23.20

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UL 2CA_DSI3_ant4

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	2560	21350	1	50	20	QPSK	2540.2	21152	1	99	0	21.95	23.70
20	QPSK	2510	20850	1	50	20	QPSK	2529.8	21048	1	0	0	21.80	23.70

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	2560	21350	1	50	15	QPSK	2542.9	21179	1	74	0	21.84	23.70
20	QPSK	2510	20850	1	50	15	QPSK	2527.1	21021	1	0	0	21.86	23.70

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	2562.5	21375	1	74	15	QPSK	2547.5	21225	1	0	0	21.78	23.70
15	QPSK	2507.5	20825	1	0	15	QPSK	2522.5	20975	1	74	0	21.81	23.70

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	2562.5	21375	1	74	10	QPSK	2519.5	20945	1	0	0	21.79	23.70

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	2560	21350	1	50	10	QPSK	2524.4	20994	1	0	0	21.72	23.70

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CA_41C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	23.17	24.70
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	22.97	24.70

CA_41C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	23.16	24.70
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	23.09	24.70

CA_41C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	23.15	24.70
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	23.13	24.70

CA_41C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	23.06	24.70
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	22.93	24.70

CA_41C														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	22.94	24.70
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	23.04	24.70

CA_41C														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						UL CA power		
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	23.01	24.70
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	23.12	24.70

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UL 2CA_DSI8_ant7

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	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	22.62	23.70
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	22.52	23.70

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	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	22.60	23.70
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	22.53	23.70

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	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	22.58	23.70
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	22.44	23.70

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	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	22.54	23.70
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	22.40	23.70

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	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	22.46	23.70
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	22.60	23.70

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	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	22.48	23.70
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	22.42	23.70

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UL 2CA_DSI13_ant7

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	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	22.62	22.70
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	22.52	22.70

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	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	22.60	22.70
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	22.53	22.70

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	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	22.58	22.70
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	22.44	22.70

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	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	22.54	22.70
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	22.40	22.70

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	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	22.46	22.70
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	22.60	22.70

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	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	22.48	22.70
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	22.42	22.70

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UL 2CA_DSI3_ant7

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	2680	41490	1	50	20	QPSK	2660.2	41292	1	0	0	22.62	23.70
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	22.52	23.70

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	2680	41490	1	50	15	QPSK	2662.9	41319	1	0	0	22.60	23.70
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	22.53	23.70

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	2682.5	41515	1	36	15	QPSK	2667.5	41365	1	0	0	22.58	23.70
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	22.44	23.70

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	2680	41490	1	50	10	QPSK	2665.6	41346	1	0	0	22.54	23.70
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	22.40	23.70

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	2682.5	41515	1	36	10	QPSK	2670.5	41395	1	0	0	22.46	23.70
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	22.60	23.70

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	2680	41490	1	50	5	QPSK	2668.3	41373	1	0	0	22.48	23.70
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	22.42	23.70

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LTE Downlink 3CA conducted power table

Three Component Carrier Maximum Conducted Power																				
Ant No.	PCC Band	PCC Bandwidth [MHz]	PCC						SCC 1				SCC 2				Power (Level 1)		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]	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)
1	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B7	20	3350	2680	LTE B7	20	3152	2660.2	23.78	23.93	CA_SA-7C
4	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	LTE B5	10	2525	881.5	21.73	21.86	CA_SA-7C
4	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B7	20	3048	2649.8	LTE B5	10	2525	881.5	21.90	21.95	CA_SA-7C
1	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B7	20	3350	2680	LTE B7	20	3152	2660.2	23.78	23.93	CA_SA-7C
0	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	LTE B5	10	2525	881.5	21.81	21.98	CA_SA-7C
0	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B7	20	3048	2649.8	LTE B5	10	2525	881.5	21.84	22.04	CA_SA-7C

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LTE CA information

A)

The device supports downlink LTE Carrier Aggregation (CA). It supports a maximum of 3 carriers in the downlink. Other Release 10 features or higher features are not supported, including Enhanced SC-FDMA, 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 V16.6.0. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1 V16.6.0. 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 5B		No	3CC #1	CA 5A-7C		No
2CC #2	CA 5A-7A		No				
2CC #3	CA 7A-7A		No				
2CC #4	CA 7C		No				
2CC #5	CA 38C		No				
2CC #6	CA 41C		No				
2CC #7	CA 41A-41A		No				

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Note:

- 1) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V16.6.0.
- 2) The reference test frequencies for CA refers to 3GPP TS 36.508 V16.6.0
- 3) Testing is not required in bands or modes not intended/allowed for US operation
- 4) Based on TCB workshop April 2018, only indicate “No” in CA combination table need power measurement

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1.3.11 SAR test exclusion for LTE DL MIMO

SAR test exclusion for LTE DL MIMO was determined by UL power measurements with and without DL MIMO. SAR for DL MIMO was not needed since the maximum output power with DL MIMO active was not > 0.25dB higher than the maximum output power with DL MIMO inactive.

DL MIMO maximum power verification									
PCC								TX power level 1 (dBm)	
UL								DL MIMO active	DL MIMO inactive
AntNo.	Band	Bandwidth [MHz]	Modulation	RB	RB Offset	Frequency [MHz]	Channel		
1	LTE B5	10	QPSK	1	0	836.5	20525	23.88	23.93
4	LTE B7	20	QPSK	1	0	2510	20850	21.79	21.95
0	LTE B7	20	QPSK	1	0	2510	20850	21.87	22.04
4	LTE B38	20	QPSK	1	0	2595	38000	22.98	23.12
0	LTE B38	20	QPSK	1	0	2580	37850	23.12	23.22
3	LTE B38	20	QPSK	1	0	2580	37850	22.14	22.29
7	LTE B38	20	QPSK	1	0	2595	38000	22.36	22.50
4	LTE B41	20	QPSK	1	0	2549.5	40185	23.08	23.21
0	LTE B41	20	QPSK	1	0	2549.5	40185	23.22	23.25
3	LTE B41	20	QPSK	1	0	2680	41490	22.76	22.93
7	LTE B41	20	QPSK	1	0	2549.5	40185	22.57	22.69

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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. The device was tested based on KDB648474D04v01r03.

Head SAR (0mm)

Cheek/Touch Position:

The handset was brought toward the mouth of the head phantom by pivoting against the ear reference point until any point of the mouthpiece or keypad touched the phantom.

Ear/Tilt Position:

With the phone aligned in the Cheek/Touch position, the handset was tilted away from the mouth with respect to the test device reference point by 15 degrees

Body-worn SAR (15mm)

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative test separation distance configuration may be used to support both SAR conditions. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.

Hotspot SAR (10mm)

A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge

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when the form factor of a handset is larger than 9 cm × 5 cm.

Product specific 10-g SAR (0mm)

Since the device is a phablet (overall diagonal dimension > 16.0 cm), the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR. When hotspot mode applies, product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg. However, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold. Based on KDB941225D06v02r01, the hotspot mode and body-worn accessory SAR test configurations may overlap for handsets. When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.

According to KDB 648474 D04 v01r03, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

For ant0 GPRS 1900 / LTE 38 / LTE 41 / 5G n41 ; ant1 GPRS 850 / 3G B5 / LTE B5 ; ant2 GPRS 1900 ; ant3 LTE 38 / LTE 41 / 5G n38 / 5G n41 ; ant4 LTE 7 / LTE 38 / LTE 41 / 5G n7 / 5G n38 / 5G n41 ; ant7 LTE 38 / LTE 41 / 5G n38 / 5G n41 ; WLAN ant8 5.2G / 5.8G ; ant9 2.4G / BT, 10-g extremity SAR is not required because the hotspot SAR is less than 1.2 W/kg when scaling to the maximum output power.

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

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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 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	β_c	β_a	β_a (SF)	β_c/β_a	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: Δ_{ACK} , Δ_{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 β_c/β_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	β_c	β_a	β_a (SF)	β_c/β_a	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E- TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	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 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{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 β_c/β_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 β_c/β_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: β_{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

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measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{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	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
<p>Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with $\beta_{hs} = 30/15 * \beta_c$</p> <p>Note 2: CM = 3.5 and the MPR is based on the relative CM difference, $MPR = \text{MAX}(CM-1, 0)$</p> <p>Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.</p> <p>Note 4: β_{ed} 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

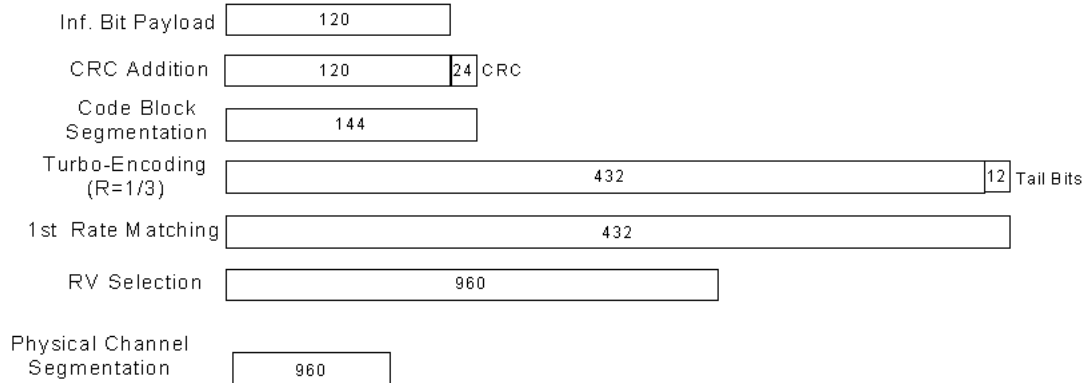
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Table C.8.1.12: Fixed Reference Channel H-Set 12⁽¹⁾

Parameter ⁽²⁾	Unit ⁽²⁾	Value ⁽²⁾
Nominal Avg. Inf. Bit Rate ⁽²⁾	kbps ⁽²⁾	60 ⁽²⁾
Inter-TTI Distance ⁽²⁾	TTI's ⁽²⁾	1 ⁽²⁾
Number of HARQ Processes ⁽²⁾	Processes ⁽²⁾	6 ⁽²⁾
Information Bit Payload (N_{INF}) ⁽²⁾	Bits ⁽²⁾	120 ⁽²⁾
Number Code Blocks ⁽²⁾	Blocks ⁽²⁾	1 ⁽²⁾
Binary Channel Bits Per TTI ⁽²⁾	Bits ⁽²⁾	960 ⁽²⁾
Total Available SML's in UE ⁽²⁾	SML's ⁽²⁾	19200 ⁽²⁾
Number of SML's per HARQ Proc. ⁽²⁾	SML's ⁽²⁾	3200 ⁽²⁾
Coding Rate ⁽²⁾		0.15 ⁽²⁾
Number of Physical Channel Codes ⁽²⁾	Codes ⁽²⁾	1 ⁽²⁾
Modulation ⁽²⁾		QPSK ⁽²⁾
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. ⁽²⁾ 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. ⁽²⁾		


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)⁽¹⁾

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	β_c	β_a	β_a (SF)	β_c/β_a	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	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 β_c/β_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 ≤ 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 ≤ 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.

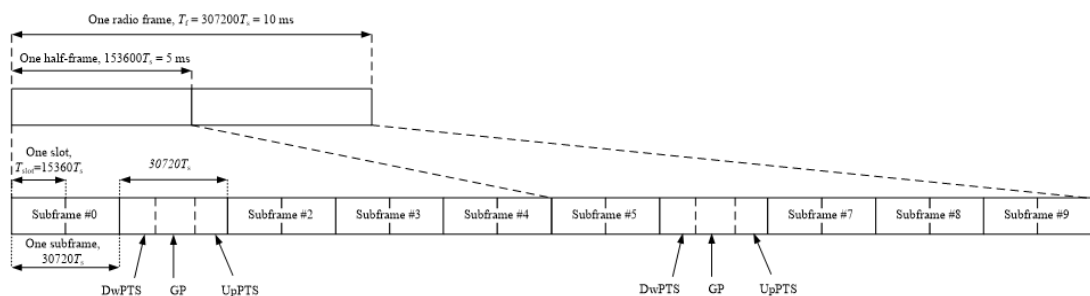


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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

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

Table 4.2-2: Uplink-downlink configurations

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

Considering the highest transmission duty cycle, TDD LTE power class 3 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%.

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

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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. 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 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 procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC.
9. **5G NR:** Due to test setup limitation, SAR testing for NR was performed using factory test mode software to establish the connection.

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10. **5G NR:** The device supports SA only, NSA (EN-DC) is not supported.
11. **5G NR:** 5G NR Power/SAR procedure is similar with KDB 941225 D05. **a.** For power measurement reduction of DFT-s-OFDM and CP-OFDM, CP-OFDM will not higher than DFT-s-OFDM based on 3GPP MPR table, so CP-OFDM power measurement is unnecessary **b.** For power measurement reduction of DFT-s-OFDM, 16QAM/64QAM/256QAM will not higher than Pi/2 BPSK and QPSK based on 3GPP MPR table, so Pi/2 BPSK and QPSK are measured fully, and 16QAM/64QAM/256QAM is spot check 1RB allocation/1 RB offset configuration to ensure the output power will not ½ dB higher than Pi/2 BPSK and QPSK. Smaller bandwidth output power will spot check Pi/2 BPSK/1RB allocation/1 RB offset configuration to ensure output power will not ½ dB higher than largest supported bandwidth. **c.** SAR testing start with the largest channel bandwidth and measure SAR for Pi/2 BPSK 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. **d.** 50% RB allocation for Pi/2 BPSK SAR testing follows 1RB Pi/2 BPSK allocation procedure. **e.** Pi/2 BPSK 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 are ≤ 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. **f.** QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required. **g.** Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.
12. **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz. According to

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KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

13. **WLAN:** 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 ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. 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.
14. **WLAN:** 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 ≤ 1.2 W/kg.
15. **WLAN:** 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. 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 ≤ 1.2 W/kg or all required channels are tested. 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 ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.
16. **WLAN:** Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.

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1.6 Smart Transmit feature for RF Exposure compliance

The FCC RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmit power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$).

The parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit Feature.

<Terminologies in this report>

P _{limit}	The time-averaged RF power which corresponds to SAR design target
P _{max}	Maximum tune-up power level
SAR_design_target	The design target for SAR compliance. It should be less than SAR limit to account for all device design related uncertainties.
SAR char	P _{limit} for all the technologies/bands

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for $f < 6\text{GHz}$.

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1.6.1 SAR_design_target and Uncertainty

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer

$$\text{SAR_design_target} < \text{SAR_limit} \times 10^{-(\text{total uncertainty}/10)}$$

	Uncertainty dB 2/3/4G (except B7/B38/B41)	Uncertainty dB B7/B38/B41	Uncertainty dB NR
TxAGC Uncertainty	1	1.2	1.5
Device to device variation	0.5	0.5	0.5
Total uncertainty	1.1	1.3	1.55

Exposure	Frequency band	SAR design target
Head / Body-worn / Hotspot	All	1g, 1.0 W/Kg
Product specific 10-g SAR	All	10g, 2.8 W/Kg

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below tables shows calculated Plimit table and actual EFS settings configured for this EUT.

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<Plimit for supported technologies and bands (calculated Plimit)>

Band	Antenna	Plimit (average)			Pmax* (average)
		Body-worn / product-specific 10g-SAR	Head	Hotspot	
		DSI 3	DSI 8	DSI 13	
GSM_B850	1	31.4	32.2	-	23.6
GPRS_B850_2Tx Slot	1	27.4	-	29.2	23.7
GSM_B1900	0	29.7	29.8	-	20.3
GSM_B1900	2	28.1	18.8	-	20.3
GPRS 1900 4Tx Slot	0	24.3	-	24.8	20.5
GPRS 1900 4Tx Slot	2	23.7	-	24	20.5
LTE_B5	1	26.7	32.2	29.5	24
LTE_B7	4	22.3	19.8	23.4	22.5
LTE_B7	0	23.7	32.7	20	22.5
LTE_B38	4	22.3	20	23.7	21.5
LTE_B38	0	25	33.8	23.8	21.5
LTE_B38	3	22.5	25.8	23.1	20.8
LTE_B38	7	25.9	22.3	26.3	20.5
LTE_B41	4	22.3	20	20	21.5
LTE_B41	0	24.8	31	23.3	21.5
LTE_B41	3	22.6	23.7	22.8	21
LTE_B41	7	25.5	22	25.9	20.5
NR5G_N7	4	21.8	18.5	23.7	22.5
NR5G_N7	0	21	32.6	19.5	22.5
NR5G_N38	4	20.9	18.5	18.5	23.5
NR5G_N38	0	21.5	34.3	21.5	23.5
NR5G_N38	3	21	25.1	19.3	22.8
NR5G_N38	7	24.9	20.5	26	22.5
NR5G_N41	4	21	18.5	18.5	23.5
NR5G_N41	0	23.8	34.1	21.5	23.5
NR5G_N41	3	21	26.8	17.5	23
NR5G_N41	7	24.7	20.5	26.1	22.5
WCDMA_B2	0	21.5	30.9	20	22.5
WCDMA_B2	2	19.5	18.5	18.5	22.5
WCDMA_B5	1	28	31.9	28.3	24

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<Plimit for supported technologies and bands (actual EFS settings)>

Band	Antenna	Plimit (average)			Pmax* (average)
		Body-worn / product-specific 10g-SAR	Head	Hotspot	
		DSI 3	DSI 8	DSI 13	
GSM_B850	1	23.6	23.6	19.6	23.6
GPRS_B850_2Tx Slot	1	23.7	23.7	19.7	23.7
GSM_B1900	0	20.3	20.3	16.3	20.3
GSM_B1900	2	20.3	18.8	18.8	20.3
GPRS 1900 4Tx Slot	0	20.5	20.5	16.5	20.5
GPRS 1900 4Tx Slot	2	20.5	19	19	20.5
LTE_B5	1	24	24	24	24
LTE_B7	4	20.8	19.8	19.8	22.5
LTE_B7	0	22.5	22.5	20	22.5
LTE_B38	4	20.5	20	20	21.5
LTE_B38	0	21.5	21.5	20	21.5
LTE_B38	3	20.8	20.8	19.8	20.8
LTE_B38	7	20.5	20.5	19.5	20.5
LTE_B41	4	20.5	20	20	21.5
LTE_B41	0	21.5	21.5	20	21.5
LTE_B41	3	21	21	20	21
LTE_B41	7	20.5	20.5	19.5	20.5
NR5G_N7	4	20.5	18.5	18.5	22.5
NR5G_N7	0	21	22.5	19.5	22.5
NR5G_N38	4	20.5	18.5	18.5	23.5
NR5G_N38	0	21.5	23.5	21.5	23.5
NR5G_N38	3	19.8	22.3	19.3	22.8
NR5G_N38	7	22.5	20.5	20.5	22.5
NR5G_N41	4	20.5	18.5	18.5	23.5
NR5G_N41	0	21.5	23.5	21.5	23.5
NR5G_N41	3	18	22.5	17.5	23
NR5G_N41	7	22.5	20.5	20.5	22.5
WCDMA_B2	0	21.5	22.5	20	22.5
WCDMA_B2	2	19.5	18.5	18.5	22.5
WCDMA_B5	1	24	24	24	24

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Note:

Qualcomm Smart Transmit feature which enables more elegant power control mechanisms for RF exposure management does not apply to GSM bands with DSI 13(hotspot mode).

*Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + TxAGC uncertainty.

**All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., LTE TDD). The max allowed output power is the Plimit + TxAGC uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

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1.7 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 σ and ρ 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 in tissue 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.

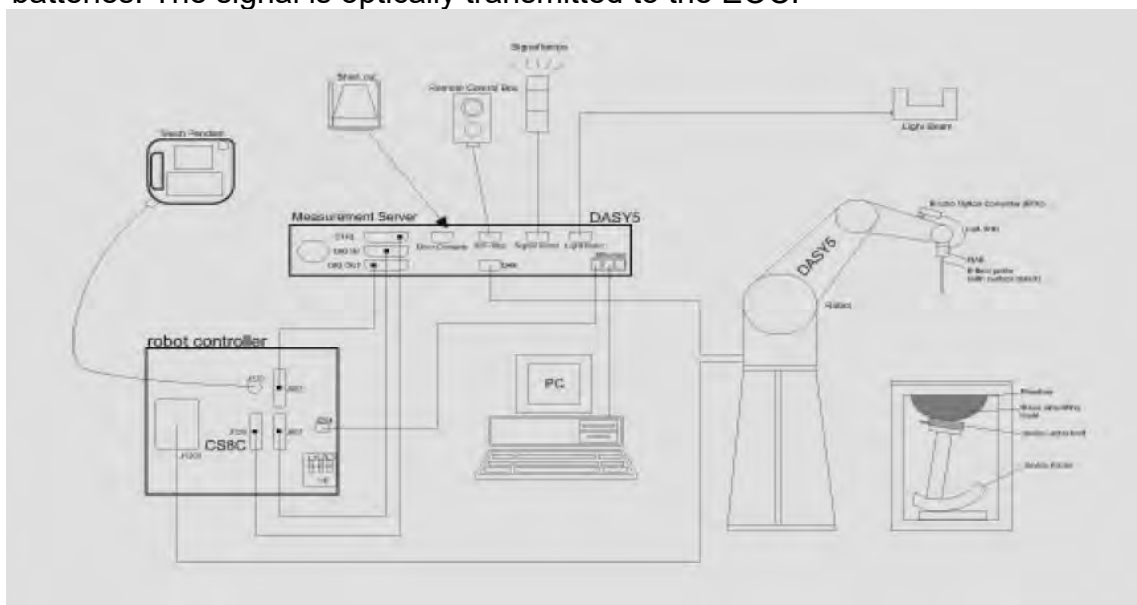


Fig. a The block diagram of SAR system

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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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1.8 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 835/1900/2450/2600/5250/5600/5750MHz 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 strong 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	Twin SAM	
Construction	<p>The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209.</p> <p>It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.</p>	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Height: 850 mm; Length: 1000 mm; Width: 500 mm	

DEVICE HOLDER

Construction	<p>In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).</p>	 <p style="text-align: center;">Device Holder</p>
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1.9 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 $\pm 10\%$ from the target SAR values. These tests were done at 835/1900/2450/2600/5250/5600/5750MHz. 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 above 15 cm 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.

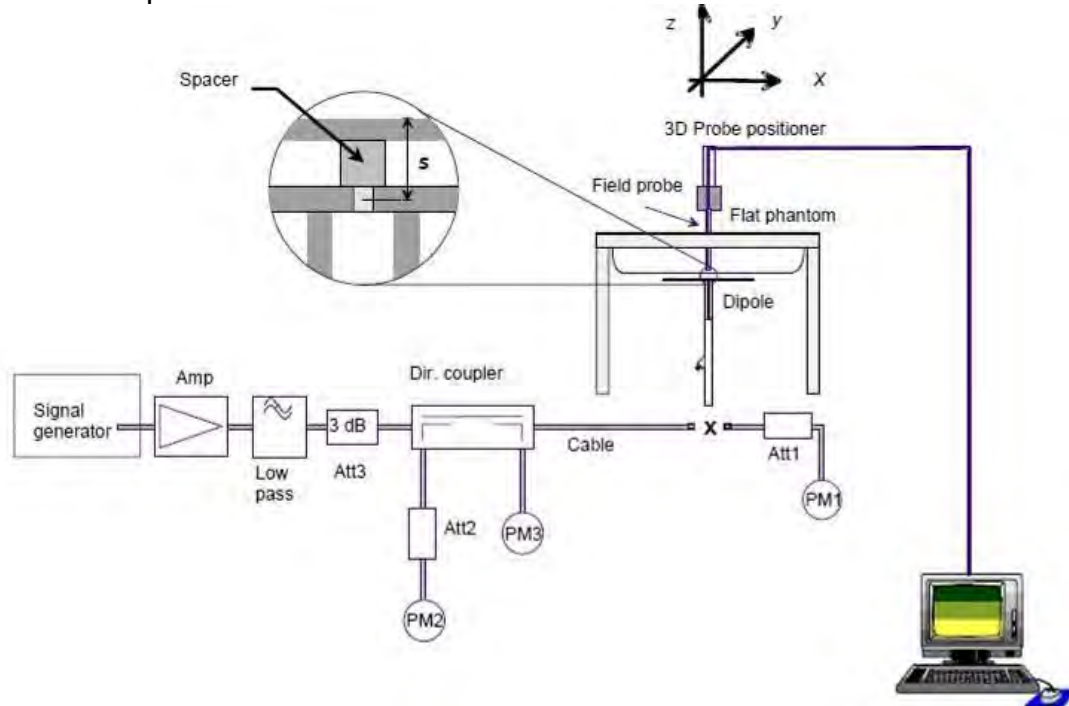


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D835V2	4d063	835	9.64	2.42	9.68	0.41	± 10%	Mar.29,2022
D1900V2	5d173	1900	39.3	9.95	39.8	1.27	± 10%	Mar.30,2022
D1900V2	5d173	1900	39.3	9.75	39	-0.76	± 10%	Mar.31,2022
D2450V2	727	2450	53.9	13.4	53.6	-0.56	± 10%	Mar.23,2022
D2600V2	1005	2600	56.8	14.1	56.4	-0.70	± 10%	Apr.01,2022
D2600V2	1005	2600	56.8	14.1	56.4	-0.70	± 10%	Apr.02,2022
D2600V2	1005	2600	56.8	14.1	56.4	-0.70	± 10%	Apr.03,2022
D2600V2	1005	2600	56.8	14.3	57.2	0.70	± 10%	Apr.04,2022

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	81	8.02	80.2	-0.99	± 10%	Mar.24,2022
D5GHzV2	1023	5600	84.4	8.44	84.4	0.00	± 10%	Mar.25,2022
D5GHzV2	1023	5750	81	8.01	80.1	-1.11	± 10%	Mar.25,2022

Table 1. Results of system verification

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1.10 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 $\geq 15 \text{ cm} \pm 5 \text{ mm}$ during all tests. (Fig. 2)

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Mar, 29. 2022	824.2	41.556	0.899	41.968	0.909	0.99%	1.09%
		826.4	41.545	0.899	41.944	0.910	0.96%	1.19%
		829	41.531	0.900	41.894	0.911	0.87%	1.27%
		835	41.500	0.900	41.911	0.912	0.99%	1.33%
		836.5	41.500	0.902	41.894	0.913	0.95%	1.26%
		836.6	41.500	0.902	41.878	0.914	0.91%	1.36%
		844	41.500	0.910	41.863	0.919	0.87%	1.02%
		846.6	41.500	0.912	41.819	0.923	0.77%	1.15%
	848.8	41.500	0.915	41.812	0.925	0.75%	1.11%	
	2022/3/30 ANT 0	1850.2	40.000	1.400	39.788	1.392	-0.53%	-0.57%
		1852.4	40.000	1.400	39.780	1.392	-0.55%	-0.57%
		1880	40.000	1.400	39.776	1.393	-0.56%	-0.50%
		1900	40.000	1.400	39.754	1.394	-0.62%	-0.43%
		1907.6	40.000	1.400	39.744	1.395	-0.64%	-0.36%
		1909.8	40.000	1.400	39.741	1.396	-0.65%	-0.29%
	2022/3/31 ANT 2	1850.2	40.000	1.400	39.748	1.392	-0.63%	-0.57%
		1852.4	40.000	1.400	39.744	1.392	-0.64%	-0.57%
		1880	40.000	1.400	39.742	1.393	-0.65%	-0.50%
		1900	40.000	1.400	39.732	1.394	-0.67%	-0.43%
		1907.6	40.000	1.400	39.726	1.395	-0.69%	-0.36%
		1909.8	40.000	1.400	39.722	1.396	-0.69%	-0.29%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	2022/4/1 ANT 0	2506	39.129	1.861	38.718	1.846	-1.05%	-0.81%
		2510	39.124	1.865	38.678	1.850	-1.14%	-0.83%
		2535	39.092	1.893	38.662	1.877	-1.10%	-0.83%
		2546.01	39.078	1.905	38.657	1.889	-1.08%	-0.83%
		2549.5	39.073	1.909	38.636	1.893	-1.12%	-0.81%
		2560	39.060	1.920	38.626	1.905	-1.11%	-0.78%
		2580	39.035	1.942	38.621	1.926	-1.06%	-0.81%
		2592.99	39.018	1.956	38.613	1.941	-1.04%	-0.77%
		2593	39.018	1.956	38.608	1.942	-1.05%	-0.72%
		2595	39.015	1.958	38.606	1.943	-1.05%	-0.78%
		2600	39.009	1.964	38.568	1.947	-1.13%	-0.85%
		2610	38.996	1.975	38.548	1.959	-1.15%	-0.79%
		2636.5	38.963	2.003	38.522	1.988	-1.13%	-0.77%
		2640	38.958	2.007	38.518	1.992	-1.13%	-0.76%
	2680	38.907	2.051	38.464	2.035	-1.14%	-0.78%	
	2022/4/2 ANT 3	2506	39.129	1.861	38.706	1.846	-1.08%	-0.81%
		2510	39.124	1.865	38.697	1.850	-1.09%	-0.83%
		2535	39.092	1.893	38.674	1.878	-1.07%	-0.78%
		2546.01	39.078	1.905	38.666	1.890	-1.05%	-0.77%
		2549.5	39.073	1.909	38.663	1.894	-1.05%	-0.76%
		2560	39.060	1.920	38.646	1.904	-1.06%	-0.83%
		2580	39.035	1.942	38.613	1.927	-1.08%	-0.76%
		2592.99	39.018	1.956	38.604	1.939	-1.06%	-0.87%
		2593	39.018	1.956	38.603	1.940	-1.06%	-0.82%
		2595	39.015	1.958	38.602	1.942	-1.06%	-0.83%
		2600	39.009	1.964	38.592	1.948	-1.07%	-0.80%
2610		38.996	1.975	38.564	1.959	-1.11%	-0.79%	
2636.5	38.963	2.003	38.526	1.987	-1.12%	-0.82%		
2640	38.958	2.007	38.510	1.992	-1.15%	-0.76%		
2680	38.907	2.051	38.468	2.035	-1.13%	-0.78%		

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	2022/4/3 ANT 4	2506	39.129	1.861	38.718	1.847	-1.05%	-0.76%
		2510	39.124	1.865	38.701	1.851	-1.08%	-0.77%
		2535	39.092	1.893	38.642	1.878	-1.15%	-0.78%
		2546.01	39.078	1.905	38.640	1.890	-1.12%	-0.77%
		2549.5	39.073	1.909	38.631	1.893	-1.13%	-0.81%
		2560	39.060	1.920	38.630	1.906	-1.10%	-0.73%
		2580	39.035	1.942	38.597	1.926	-1.12%	-0.81%
		2592.99	39.018	1.956	38.584	1.931	-1.11%	-1.28%
		2593	39.018	1.956	38.577	1.940	-1.13%	-0.82%
		2595	39.015	1.958	38.576	1.943	-1.13%	-0.78%
		2600	39.009	1.964	38.572	1.948	-1.12%	-0.80%
		2610	38.996	1.975	38.571	1.959	-1.09%	-0.79%
		2636.5	38.963	2.003	38.550	1.988	-1.06%	-0.77%
		2640	38.958	2.007	38.522	1.991	-1.12%	-0.81%
	2680	38.907	2.051	38.460	2.036	-1.15%	-0.73%	
	2022/4/4 ANT 7	2506	39.129	1.861	38.714	1.846	-1.06%	-0.81%
		2510	39.124	1.865	38.689	1.851	-1.11%	-0.77%
		2535	39.092	1.893	38.677	1.877	-1.06%	-0.83%
		2546.01	39.078	1.905	38.667	1.889	-1.05%	-0.83%
		2549.5	39.073	1.909	38.644	1.894	-1.10%	-0.76%
		2560	39.060	1.920	38.630	1.905	-1.10%	-0.78%
		2580	39.035	1.942	38.593	1.927	-1.13%	-0.76%
		2592.99	39.018	1.956	38.593	1.941	-1.09%	-0.77%
		2593	39.018	1.956	38.589	1.941	-1.10%	-0.77%
		2595	39.015	1.958	38.578	1.942	-1.12%	-0.83%
		2600	39.009	1.964	38.568	1.948	-1.13%	-0.80%
2610		38.996	1.975	38.552	1.959	-1.14%	-0.79%	
2636.5	38.963	2.003	38.548	1.988	-1.06%	-0.77%		
2640	38.958	2.007	38.541	1.990	-1.07%	-0.86%		
2680	38.907	2.051	38.464	2.034	-1.14%	-0.82%		

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Mar, 23. 2022	2402	39.261	1.748	38.831	1.733	-1.10%	-0.84%
		2412	39.268	1.766	38.820	1.752	-1.14%	-0.81%
		2437	39.223	1.788	38.803	1.774	-1.07%	-0.81%
		2441	39.211	1.790	38.774	1.775	-1.12%	-0.85%
		2450	39.200	1.800	38.773	1.786	-1.09%	-0.78%
		2457	39.191	1.808	38.768	1.794	-1.08%	-0.75%
		2462	39.185	1.813	38.750	1.799	-1.11%	-0.78%
		2480	39.162	1.833	38.727	1.818	-1.11%	-0.80%
	Mar, 24. 2022	5180	36.009	4.635	35.658	4.599	-0.97%	-0.77%
		5190	35.997	4.645	35.644	4.608	-0.98%	-0.79%
		5200	35.986	4.655	35.619	4.620	-1.02%	-0.75%
		5230	35.951	4.686	35.603	4.651	-0.97%	-0.74%
		5240	35.940	4.696	35.599	4.660	-0.95%	-0.77%
		5250	35.929	4.706	35.582	4.671	-0.96%	-0.75%
		5260	35.917	4.717	35.576	4.677	-0.95%	-0.84%
		5270	35.906	4.727	35.539	4.691	-1.02%	-0.76%
		5280	35.894	4.737	35.525	4.700	-1.03%	-0.78%
		5300	35.871	4.758	35.513	4.718	-1.00%	-0.83%
	Mar, 25. 2022	5310	35.860	4.768	35.508	4.732	-0.98%	-0.75%
		5320	35.849	4.778	35.503	4.739	-0.96%	-0.82%
		5500	35.643	4.963	35.276	4.921	-1.03%	-0.84%
		5530	35.609	4.993	35.235	4.955	-1.05%	-0.77%
		5600	35.500	5.070	35.156	5.027	-0.97%	-0.85%
		5610	35.517	5.075	35.138	5.037	-1.07%	-0.75%
		5690	35.426	5.157	35.077	5.115	-0.98%	-0.82%
		5700	35.414	5.168	35.060	5.126	-1.00%	-0.80%
		5720	35.391	5.188	35.034	5.147	-1.01%	-0.79%
		5745	35.363	5.214	35.020	5.170	-0.97%	-0.84%
		5750	35.357	5.219	35.018	5.176	-0.96%	-0.82%
		5775	35.329	5.244	34.986	5.205	-0.97%	-0.75%
		5785	35.317	5.255	34.975	5.213	-0.97%	-0.79%
		5825	35.271	5.296	34.908	5.251	-1.03%	-0.84%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid is:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

Table 3. Recipes for tissue simulating liquid

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1.11 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.

The first procedure is an extrapolation (incl. Boundary correction) to get the points

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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.

1.12 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:

1.12.1 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 σ is the conductivity, ρ 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 ρ), 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].

1.12.2 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.
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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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1.13 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 where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of

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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

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Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
GSM1900	Right Touch	0	810	1909.8	30.5	29.66	121.34%	0.069	0.084	-
	Right Tilt	0	810	1909.8	30.5	29.66	121.34%	0.079	0.096	-
	Left Touch	0	512	1850.2	30.5	29.53	125.03%	0.087	0.109	-
	Left Touch	0	661	1880	30.5	29.62	122.46%	0.096	0.118	-
	Left Touch	0	810	1909.8	30.5	29.66	121.34%	0.115	0.140	v
	Left Tilt	0	810	1909.8	30.5	29.66	121.34%	0.024	0.029	-
2nd Battery	Left Touch	0	810	1909.8	30.5	29.66	121.34%	0.103	0.125	-
3rd Battery	Left Touch	0	810	1909.8	30.5	29.66	121.34%	0.099	0.120	-

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
WCDMA Band II	Right Touch	0	9538	1907.6	23.5	22.48	126.47%	0.112	0.142	-
	Right Tilt	0	9538	1907.6	23.5	22.48	126.47%	0.069	0.087	-
	Left Touch	0	9262	1852.4	23.5	22.18	135.52%	0.126	0.171	-
	Left Touch	0	9400	1880	23.5	22.38	129.42%	0.105	0.136	-
	Left Touch	0	9538	1907.6	23.5	22.48	126.47%	0.143	0.181	v
	Left Tilt	0	9538	1907.6	23.5	22.48	126.47%	0.044	0.056	-
2nd Battery	Left Touch	0	9538	1907.6	23.5	22.48	126.47%	0.124	0.157	-
3rd Battery	Left Touch	0	9538	1907.6	23.5	22.48	126.47%	0.117	0.148	-

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Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
GSM850	Right Touch	0	190	836.6	33.8	32.34	139.96%	0.045	0.063	-
	Right Tilt	0	190	836.6	33.8	32.34	139.96%	0.049	0.069	-
	Left Touch	0	128	824.2	33.8	32.11	147.57%	0.104	0.153	-
	Left Touch	0	190	836.6	33.8	32.34	139.96%	0.123	0.172	v
	Left Tilt	0	251	848.8	33.8	32.27	142.23%	0.098	0.139	-
	Left Tilt	0	190	836.6	33.8	32.34	139.96%	0.051	0.071	-
2nd Battery	Left Touch	0	190	836.6	33.8	32.34	139.96%	0.096	0.137	-
3rd Battery	Left Touch	0	190	836.6	33.8	32.34	139.96%	0.084	0.118	-

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
WCDMA Band V	Right Touch	0	4183	836.6	25.0	23.83	130.98%	0.086	0.086	-
	Right Tilt	0	4183	836.6	25.0	23.83	130.98%	0.059	0.077	-
	Left Touch	0	4132	826.4	25.0	23.75	133.35%	0.133	0.177	-
	Left Touch	0	4183	836.6	25.0	23.83	130.98%	0.154	0.202	v
	Left Touch	0	4233	846.6	25.0	23.82	131.22%	0.129	0.169	-
	Left Tilt	0	4183	836.6	25.0	23.83	130.98%	0.065	0.085	-
	2nd Battery	Left Touch	0	4183	836.6	25.0	23.83	130.98%	0.144	0.189
3rd Battery	Left Touch	0	4183	836.6	25.0	23.83	130.98%	0.138	0.181	-

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)		Please refer to the measurement chapter			
												Measured	Reported				
LTE Band 5	10MHz	QPSK	1	0	Right Touch	0	20525	836.5	25.00	23.93	127.94%	0.041	0.052	-			
			25	0	Right Touch	0	20450	829	24.00	22.82	131.22%	0.028	0.037	-			
			50RB		Right Touch	0	20450	829	24.00	22.86	130.02%	0.023	0.030	-			
			1	0	Right Tilt	0	20525	836.5	25.00	23.93	127.94%	0.032	0.041	-			
			25	0	Right Tilt	0	20450	829	24.00	22.82	131.22%	0.022	0.029	-			
			50RB		Right Tilt	0	20450	829	24.00	22.86	130.02%	0.020	0.026	-			
			1	0	Left Touch	0	20450	829	25.00	23.85	130.32%	0.128	0.167	-			
			1	0	Left Touch	0	20525	836.5	25.00	23.93	127.94%	0.146	0.187	v			
			1	0	Left Touch	0	20600	844	25.00	23.84	130.62%	0.104	0.136	-			
			25	0	Left Touch	0	20450	829	24.00	22.82	131.22%	0.111	0.146	-			
			50RB		Left Touch	0	20450	829	24.00	22.86	130.02%	0.104	0.135	-			
			1	0	Left Tilt	0	20525	836.5	25.00	23.93	127.94%	0.058	0.074	-			
			25	0	Left Tilt	0	20450	829	24.00	22.82	131.22%	0.041	0.054	-			
			50RB		Left Tilt	0	20450	829	24.00	22.86	130.02%	0.044	0.057	-			
			1	0	Left Touch	0	20525	836.5	25.00	23.93	127.94%	0.125	0.160	-			
			1	0	Left Touch	0	20525	836.5	25.00	23.93	127.94%	0.105	0.134	-			
			2nd Battery														
			3rd Battery														

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Body-Worn

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
GSM850	Front Surface	15	190	836.6	33.8	32.34	139.96%	0.123	0.172	-
	Back Surface	15	128	824.2	33.8	32.11	147.57%	0.135	0.199	-
	Back Surface	15	190	836.6	33.8	32.34	139.96%	0.147	0.206	v
	Back Surface	15	251	848.8	33.8	32.27	142.23%	0.138	0.196	-
2nd Battery	Back Surface	15	190	836.6	33.8	32.34	139.96%	0.122	0.171	-
3rd Battery	Back Surface	15	190	836.6	33.8	32.34	139.96%	0.105	0.147	-

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
WCDMA Band V	Front Surface	15	4183	836.6	25.0	23.83	130.98%	0.213	0.279	-
	Back Surface	15	4132	826.4	25.0	23.75	133.35%	0.233	0.311	-
	Back Surface	15	4183	836.6	25.0	23.83	130.98%	0.318	0.417	v
	Back Surface	15	4233	846.6	25.0	23.82	131.22%	0.236	0.310	-
2nd Battery	Back Surface	15	4183	836.6	25.0	23.83	130.98%	0.291	0.381	-
3rd Battery	Back Surface	15	4183	836.6	25.0	23.83	130.98%	0.281	0.368	-

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)		Please refer to the measurement chapter				
												Measured	Reported					
LTE Band 5	10MHz	QPSK	5RB	1	0	Front Surface	15	20525	836.5	25.00	23.93	127.94%	0.135	0.173	-			
					25	0	Front Surface	15	20450	829	24.00	22.82	131.22%	0.100	0.131	-		
				1	0	Front Surface	15	20450	829	24.00	22.86	130.02%	0.102	0.133	-			
					25	0	Back Surface	15	20450	829	25.00	23.65	130.32%	0.152	0.198	-		
				1	0	Back Surface	15	20525	836.5	25.00	23.93	127.94%	0.166	0.216	v			
					25	0	Back Surface	15	20600	844	25.00	23.84	130.62%	0.159	0.208	-		
			2nd Battery	10MHz	QPSK	5RB	1	0	Front Surface	15	20450	829	24.00	22.86	130.02%	0.117	0.152	-
								25	0	Back Surface	15	20450	829	24.00	22.82	131.22%	0.125	0.164
							1	0	Front Surface	15	20525	836.5	25.00	23.93	127.94%	0.156	0.200	-
								25	0	Back Surface	15	20525	836.5	25.00	23.93	127.94%	0.156	0.200
							1	0	Back Surface	15	20450	829	24.00	22.86	130.02%	0.117	0.152	-
								25	0	Back Surface	15	20525	836.5	25.00	23.93	127.94%	0.148	0.189

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Ant 2

Head

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
GSM1900	Right Touch	0	810	1909.8	29.0	28.55	110.92%	0.720	0.799	-
	Right Tilt	0	512	1850.2	29.0	28.10	123.03%	0.830	1.021	v
	Right Tilt	0	661	1880	29.0	27.81	131.52%	0.749	0.985	-
	Right Tilt	0	810	1909.8	29.0	28.55	110.92%	0.802	0.890	-
	Left Touch	0	810	1909.8	29.0	28.55	110.92%	0.506	0.561	-
	Left Tilt	0	810	1909.8	29.0	28.55	110.92%	0.648	0.719	-
2nd Battery	Right Tilt	0	512	1850.2	29.0	28.10	123.03%	0.747	0.919	-
3rd Battery	Right Tilt	0	512	1850.2	29.0	28.10	123.03%	0.728	0.896	-

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
WCDMA Band II	Right Touch	0	9538	1907.6	19.5	18.22	134.28%	0.677	0.909	-
	Right Tilt	0	9262	1852.4	19.5	18.14	136.77%	0.712	0.974	-
	Right Tilt	0	9400	1880	19.5	18.17	135.83%	0.734	0.997	-
	Right Tilt	0	9538	1907.6	19.5	18.22	134.28%	0.798	1.072	v
	Left Touch	0	9538	1907.6	19.5	18.22	134.28%	0.385	0.517	-
	Left Tilt	0	9538	1907.6	19.5	18.22	134.28%	0.507	0.681	-
2nd Battery	Right Tilt	0	9538	1907.6	19.5	18.22	134.28%	0.669	0.898	-
3rd Battery	Right Tilt	0	9538	1907.6	19.5	18.22	134.28%	0.773	1.038	-

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Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
GPRS1900 <1Dn4Up>	Front Surface	10	661	1880	24.5	24.37	103.04%	0.226	0.233	-
	Back Surface	10	661	1880	24.5	24.37	103.04%	0.373	0.384	-
	Top Edge	10	512	1850.2	24.5	23.50	125.89%	0.392	0.493	-
	Top Edge	10	661	1880	24.5	24.37	103.04%	0.543	0.559	v
	Top Edge	10	810	1909.8	24.5	24.33	103.99%	0.507	0.527	-
	Bottom Edge	10	661	1880	24.5	24.37	103.04%	0.001	0.001	-
	Left Edge	10	661	1880	24.5	24.37	103.04%	0.107	0.110	-
	Right Edge	10	661	1880	24.5	24.37	103.04%	0.061	0.063	-
	2nd Battery	Top Edge	10	661	1880	24.5	24.37	103.04%	0.503	0.518
3rd Battery	Top Edge	10	661	1880	24.5	24.37	103.04%	0.514	0.530	-

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter	
								Measured	Reported		
WCDMA Band II	Front Surface	10	9400	1880	19.5	18.15	136.46%	0.166	0.227	-	
	Back Surface	10	9400	1880	19.5	18.15	136.46%	0.281	0.383	-	
	Top Edge	10	9262	1852.4	19.5	18.12	137.40%	0.445	0.611	-	
	Top Edge	10	9400	1880	19.5	18.15	136.46%	0.469	0.640	v	
	Top Edge	10	9538	1907.6	19.5	18.03	140.28%	0.429	0.602	-	
	Bottom Edge	10	9400	1880	19.5	18.15	136.46%	0.001	0.001	-	
	Left Edge	10	9400	1880	19.5	18.15	136.46%	0.088	0.120	-	
	Right Edge	10	9400	1880	19.5	18.15	136.46%	0.042	0.057	-	
	2nd Battery	Top Edge	10	9400	1880	19.5	18.15	136.46%	0.442	0.603	-
	3rd Battery	Top Edge	10	9400	1880	19.5	18.15	136.46%	0.445	0.607	-

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Body-worn

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
GSM1900	Front Surface	15	661	1880	30.5	29.51	125.60%	0.115	0.144	-
	Back Surface	15	512	1850.2	30.5	29.45	127.35%	0.159	0.202	-
	Back Surface	15	661	1880	30.5	29.51	125.60%	0.166	0.209	v
	Back Surface	15	810	1909.8	30.5	29.50	125.89%	0.162	0.204	-
2nd Battery	Back Surface	15	810	1909.8	30.5	29.50	125.89%	0.161	0.203	-
3rd Battery	Back Surface	15	810	1909.8	30.5	29.50	125.89%	0.156	0.196	-

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
WCDMA Band II	Front Surface	15	9538	1907.6	20.5	19.32	131.22%	0.225	0.295	-
	Back Surface	15	9262	1852.4	20.5	19.22	134.28%	0.281	0.377	-
	Back Surface	15	9400	1880	20.5	19.31	131.52%	0.331	0.435	v
	Back Surface	15	9538	1907.6	20.5	19.32	131.22%	0.312	0.409	-
2nd Battery	Back Surface	15	9400	1880	20.5	19.31	131.52%	0.265	0.349	-
3rd Battery	Back Surface	15	9400	1880	20.5	19.31	131.52%	0.277	0.364	-

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Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 10g (W/kg)		Please refer to the measurement chapter
								Measured	Reported	
WCDMA Band II	Front Surface	0	9538	1907.6	20.5	19.32	131.22%	0.369	0.484	-
	Back Surface	0	9538	1907.6	20.5	19.32	131.22%	0.463	0.608	-
	Top Edge	0	9262	1852.4	20.5	19.22	134.28%	0.587	0.788	-
	Top Edge	0	9400	1880	20.5	19.31	131.52%	0.615	0.809	v
	Top Edge	0	9538	1907.6	20.5	19.32	131.22%	0.570	0.748	-
	Bottom Edge	0	9538	1907.6	20.5	19.32	131.22%	0.001	0.001	-
	Left Edge	0	9538	1907.6	20.5	19.32	131.22%	0.275	0.361	-
	Right Edge	0	9538	1907.6	20.5	19.32	131.22%	0.064	0.084	-
	2nd Battery	Top Edge	0	9400	1880	20.5	19.31	131.52%	0.572	0.752
3rd Battery	Top Edge	0	9400	1880	20.5	19.31	131.52%	0.554	0.729	-

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Body-worn

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)		Please refer to the measurement chapter	
												Measured	Reported		
LTE Band 38	20MHz	QPSK	1	0	Front Surface	15	38000	2595	23.70	22.50	131.83%	0.052	0.069	-	
			50	0	Front Surface	15	37850	2580	22.70	20.99	148.25%	0.024	0.036	-	
			100RB	1	0	Front Surface	15	37850	2580	22.70	20.88	152.05%	0.016	0.024	-
			1	0	Back Surface	15	37850	2580	23.70	22.32	137.40%	0.098	0.135	v	
			1	0	Back Surface	15	38000	2595	23.70	22.50	131.83%	0.071	0.094	-	
			1	0	Back Surface	15	38150	2610	23.70	22.02	147.23%	0.080	0.118	-	
			50	0	Back Surface	15	37850	2580	22.70	20.99	148.25%	0.033	0.049	-	
			100RB	1	0	Back Surface	15	37850	2580	22.70	20.88	152.05%	0.022	0.033	-
			1	0	Back Surface	15	37850	2580	23.70	22.32	137.40%	0.079	0.109	-	
			1	0	Back Surface	15	37850	2580	23.70	22.32	137.40%	0.074	0.102	-	
			1	0	Front Surface	15	40185	2549.5	23.70	22.69	126.18%	0.076	0.096	-	
			50	0	Front Surface	15	40185	2549.5	22.70	20.89	151.71%	0.039	0.059	-	
100RB	1	0	Front Surface	15	40185	2549.5	22.70	20.89	151.71%	0.025	0.038	-			
1	0	Back Surface	15	39750	2506	23.70	22.21	140.83%	0.101	0.142	-				
1	0	Back Surface	15	40185	2549.5	23.70	22.69	126.18%	0.115	0.145	v				
1	0	Back Surface	15	40620	2593	23.70	22.04	146.55%	0.081	0.119	-				
1	0	Back Surface	15	41055	2636.5	23.70	22.03	146.89%	0.053	0.078	-				
1	0	Back Surface	15	41490	2680	23.70	22.02	147.23%	0.064	0.094	-				
50	0	Back Surface	15	40185	2549.5	22.70	20.89	151.71%	0.051	0.077	-				
100RB	1	0	Back Surface	15	40185	2549.5	22.70	20.89	151.71%	0.042	0.064	-			
1	0	Back Surface	15	40185	2549.5	23.70	22.69	126.18%	0.102	0.129	-				
1	0	Back Surface	15	40185	2549.5	23.70	22.69	126.18%	0.091	0.115	-				
1	50	Back Surface	15	41490	2680	23.70	22.62	128.23%	0.093	0.119	-				
LTE Band 41	20MHz	QPSK	1	0	Front Surface	15	516000	2580	24.00	23.40	114.82%	0.090	0.103	-	
			50	28	Front Surface	15	519000	2595	24.00	22.47	142.23%	0.043	0.061	-	
			100	0	Front Surface	15	516000	2580	23.50	21.88	145.21%	0.028	0.041	-	
			1	1	Back Surface	15	516000	2580	24.00	23.40	114.82%	0.198	0.227	v	
			1	1	Back Surface	15	519000	2595	24.00	23.17	121.06%	0.130	0.157	-	
			1	1	Back Surface	15	522000	2610	24.00	22.60	138.04%	0.105	0.145	-	
			50	28	Back Surface	15	519000	2595	24.00	22.47	142.23%	0.100	0.142	-	
			100	0	Back Surface	15	516000	2580	23.50	21.88	145.21%	0.067	0.097	-	
			1	1	Back Surface	15	516000	2580	24.00	23.40	114.82%	0.175	0.201	-	
			1	1	Back Surface	15	516000	2580	24.00	23.40	114.82%	0.169	0.194	-	
			1	1	Front Surface	15	518598	2592.99	24.00	23.69	107.40%	0.200	0.107	-	
			135	69	Front Surface	15	509202	2546.01	24.00	22.67	135.83%	0.055	0.075	-	
270	0	Front Surface	15	528000	2640	23.50	22.05	139.94%	0.028	0.038	-				
1	1	Back Surface	15	509202	2546.01	24.00	23.57	110.41%	0.124	0.137	-				
1	1	Back Surface	15	518598	2592.99	24.00	23.69	107.40%	0.247	0.265	v				
1	1	Back Surface	15	528000	2640	24.00	22.80	131.83%	0.105	0.138	-				
135	69	Back Surface	15	509202	2546.01	24.00	22.67	135.83%	0.122	0.166	-				
270	0	Back Surface	15	528000	2640	23.50	22.05	139.94%	0.087	0.121	-				
1	1	Back Surface	15	518598	2592.99	24.00	23.69	107.40%	0.222	0.238	-				
1	1	Back Surface	15	518598	2592.99	24.00	23.69	107.40%	0.208	0.223	-				

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Ant 9
Head

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)		Please refer to the measurement chapter
									Measured	Reported	
WLAN 802.11b	Right Touch	0	1	2412	16.00	15.99	1.01	100.23%	0.168	0.169	-
	Right Tilt	0	1	2412	16.00	15.99	1.01	100.23%	0.097	0.098	-
	Left Touch	0	1	2412	16.00	15.99	1.01	100.23%	0.582	0.587	v
	Left Touch	0	6	2437	16.00	15.92	1.01	101.86%	0.473	0.485	-
	Left Touch	0	11	2462	16.00	15.85	1.01	103.51%	0.511	0.532	-
	Left Tilt	0	1	2412	16.00	15.99	1.01	100.23%	0.256	0.258	-
2nd Battery	Left Touch	0	1	2412	16.00	15.99	1.01	100.23%	0.553	0.558	-
3rd Battery	Left Touch	0	1	2412	16.00	15.99	1.01	100.23%	0.571	0.576	-

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)		Please refer to the measurement chapter
									Measured	Reported	
Bluetooth (GFSK)	Right Touch	0	0	2402	14.50	12.83	1.15	146.89%	0.018	0.030	-
	Right Tilt	0	0	2402	14.50	12.83	1.15	146.89%	0.011	0.019	-
	Left Touch	0	0	2402	14.50	12.83	1.15	146.89%	0.087	0.146	v
	Left Touch	0	39	2441	14.50	12.62	1.15	154.17%	0.063	0.111	-
	Left Touch	0	78	2480	14.50	12.55	1.15	156.68%	0.064	0.115	-
	Left Tilt	0	0	2402	14.50	12.83	1.15	146.89%	0.027	0.045	-
2nd Battery	Left Touch	0	0	2402	14.50	12.83	1.15	146.89%	0.074	0.124	-
3rd Battery	Left Touch	0	0	2402	14.50	12.83	1.15	146.89%	0.065	0.109	-

Hotspot

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)		Please refer to the measurement chapter
									Measured	Reported	
WLAN 802.11b	Front Surface	10	1	2412	18.00	17.93	1.01	101.62%	0.171	0.175	-
	Back Surface	10	1	2412	18.00	17.93	1.01	101.62%	0.238	0.243	-
	Top Edge	10	1	2412	18.00	17.93	1.01	101.62%	0.051	0.052	-
	Bottom Edge	10	1	2412	18.00	17.93	1.01	101.62%	0.001	0.001	-
	Left Edge	10	1	2412	18.00	17.93	1.01	101.62%	0.001	0.001	-
	Right Edge	10	1	2412	18.00	17.93	1.01	101.62%	0.358	0.366	v
	Right Edge	10	6	2437	18.00	17.83	1.01	103.99%	0.338	0.354	-
	Right Edge	10	11	2462	18.00	17.80	1.01	104.71%	0.334	0.352	-
	2nd Battery	Right Edge	10	1	2412	18.00	17.93	1.01	101.62%	0.327	0.334
3rd Battery	Right Edge	10	1	2412	18.00	17.93	1.01	101.62%	0.336	0.344	-

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)		Please refer to the measurement chapter
									Measured	Reported	
Bluetooth (GFSK)	Front Surface	10	0	2402	14.50	12.83	1.15	146.89%	0.037	0.062	-
	Back Surface	10	0	2402	14.50	12.83	1.15	146.89%	0.058	0.098	-
	Top Edge	10	0	2402	14.50	12.83	1.15	146.89%	0.001	0.002	-
	Bottom Edge	10	0	2402	14.50	12.83	1.15	146.89%	0.001	0.002	-
	Left Edge	10	0	2402	14.50	12.83	1.15	146.89%	0.001	0.002	-
	Right Edge	10	0	2402	14.50	12.83	1.15	146.89%	0.081	0.136	v
	Right Edge	10	39	2441	14.50	12.62	1.15	154.17%	0.069	0.122	-
	Right Edge	10	78	2480	14.50	12.55	1.15	156.68%	0.061	0.109	-
	2nd Battery	Right Edge	10	0	2402	14.50	12.83	1.15	146.89%	0.075	0.126
3rd Battery	Right Edge	10	0	2402	14.50	12.83	1.15	146.89%	0.068	0.114	-

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Body-Worn

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)		Please refer to the measurement chapter
									Measured	Reported	
WLAN 802.11b	Front Surface	15	1	2412	19.00	18.98	1.01	100.46%	0.103	0.104	-
	Back Surface	15	1	2412	19.00	18.98	1.01	100.46%	0.317	0.320	v
	Back Surface	15	6	2437	19.00	18.87	1.01	103.04%	0.305	0.316	-
	Back Surface	15	11	2462	19.00	18.77	1.01	105.44%	0.297	0.315	-
2nd Battery	Back Surface	15	1	2412	19.00	18.98	1.01	100.46%	0.311	0.314	-
3rd Battery	Back Surface	15	1	2412	19.00	18.98	1.01	100.46%	0.303	0.306	-

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)		Please refer to the measurement chapter
									Measured	Reported	
Bluetooth (GFSK)	Front Surface	15	0	2402	14.50	12.83	1.15	146.89%	0.003	0.005	-
	Back Surface	15	0	2402	14.50	12.83	1.15	146.89%	0.016	0.027	v
	Back Surface	15	39	2441	14.50	12.62	1.15	154.17%	0.008	0.014	-
	Back Surface	15	78	2480	14.50	12.55	1.15	156.68%	0.005	0.009	-
2nd Battery	Back Surface	15	0	2402	14.50	12.83	1.15	146.89%	0.009	0.016	-
3rd Battery	Back Surface	15	0	2402	14.50	12.83	1.15	146.89%	0.013	0.022	-

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Note:

$$\text{Scaling} = \frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P2(\text{mW})}{P1(\text{mW})} = 10^{\left(\frac{P2-P1}{10}\right)}(\text{dBm})$$

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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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

NO.	Simultaneous Transmit Configurations	All
1	WWAN + BT	YES
2	WWAN + WLAN 2.4GHz	YES
3	WWAN + WLAN 5GHz	YES
4	WWAN + WLAN 5GHz + BT	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 ≤ 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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head_DSI 8

WWAN	Exposure position 1g(W/kg)	WWAN SA mode				0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		0 WWAN Ant0	1 WLAN 2.4GHz Ant9	2 WLAN 5GHz Ant8	3 Bluetooth Ant9				
GSM 1900	Right Touch	0.084	0.169	0.370	0.030	0.114	0.253	0.454	0.484
GSM 1900	Right Tilt	0.096	0.098	0.266	0.019	0.115	0.194	0.362	0.381
GSM 1900	Left Touch	0.140	0.587	0.583	0.146	0.286	0.727	0.723	0.869
GSM 1900	Left Tilt	0.029	0.258	0.333	0.045	0.074	0.287	0.362	0.407
WCDMA II	Right Touch	0.142	0.169	0.370	0.030	0.172	0.311	0.512	0.542
WCDMA II	Right Tilt	0.087	0.098	0.266	0.019	0.106	0.185	0.353	0.372
WCDMA II	Left Touch	0.181	0.587	0.583	0.146	0.327	0.768	0.764	0.910
WCDMA II	Left Tilt	0.056	0.258	0.333	0.045	0.101	0.314	0.389	0.434
LTE B7	Right Touch	0.076	0.169	0.370	0.030	0.106	0.245	0.446	0.476
LTE B7	Right Tilt	0.073	0.098	0.266	0.019	0.092	0.171	0.339	0.358
LTE B7	Left Touch	0.126	0.587	0.583	0.146	0.272	0.713	0.709	0.855
LTE B7	Left Tilt	0.060	0.258	0.333	0.045	0.105	0.318	0.393	0.438
LTE B38	Right Touch	0.073	0.169	0.370	0.030	0.103	0.242	0.443	0.473
LTE B38	Right Tilt	0.070	0.098	0.266	0.019	0.089	0.168	0.336	0.355
LTE B38	Left Touch	0.077	0.587	0.583	0.146	0.223	0.664	0.660	0.806
LTE B38	Left Tilt	0.049	0.258	0.333	0.045	0.094	0.307	0.382	0.427
LTE B41	Right Touch	0.085	0.169	0.370	0.030	0.115	0.254	0.455	0.485
LTE B41	Right Tilt	0.077	0.098	0.266	0.019	0.096	0.175	0.343	0.362
LTE B41	Left Touch	0.148	0.587	0.583	0.146	0.294	0.735	0.731	0.877
LTE B41	Left Tilt	0.059	0.258	0.333	0.045	0.104	0.317	0.392	0.437
5G n7	Right Touch	0.078	0.169	0.370	0.030	0.108	0.247	0.448	0.478
5G n7	Right Tilt	0.064	0.098	0.266	0.019	0.083	0.162	0.330	0.349
5G n7	Left Touch	0.136	0.587	0.583	0.146	0.282	0.723	0.719	0.865
5G n7	Left Tilt	0.029	0.258	0.333	0.045	0.074	0.287	0.362	0.407
5G n38	Right Touch	0.076	0.169	0.370	0.030	0.106	0.245	0.446	0.476
5G n38	Right Tilt	0.055	0.098	0.266	0.019	0.074	0.153	0.321	0.340
5G n38	Left Touch	0.117	0.587	0.583	0.146	0.263	0.704	0.700	0.846
5G n38	Left Tilt	0.048	0.258	0.333	0.045	0.093	0.306	0.381	0.426
5G n41	Right Touch	0.071	0.169	0.370	0.030	0.101	0.240	0.441	0.471
5G n41	Right Tilt	0.057	0.098	0.266	0.019	0.076	0.155	0.323	0.342
5G n41	Left Touch	0.122	0.587	0.583	0.146	0.268	0.709	0.705	0.851
5G n41	Left Tilt	0.051	0.258	0.333	0.045	0.096	0.309	0.384	0.429

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WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant1	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
GSM 850	Right Touch	0.063	0.169	0.404	0.026	0.089	0.232	0.467	0.493
GSM 850	Right Tilt	0.069	0.098	0.290	0.016	0.085	0.167	0.359	0.375
GSM 850	Left Touch	0.172	0.587	0.637	0.128	0.300	0.759	0.809	0.937
GSM 850	Left Tilt	0.071	0.258	0.364	0.040	0.111	0.329	0.435	0.475
WCDMA V	Right Touch	0.086	0.169	0.404	0.026	0.112	0.255	0.490	0.516
WCDMA V	Right Tilt	0.077	0.098	0.290	0.016	0.093	0.175	0.367	0.383
WCDMA V	Left Touch	0.202	0.587	0.637	0.128	0.330	0.789	0.839	0.967
WCDMA V	Left Tilt	0.085	0.258	0.364	0.040	0.125	0.343	0.449	0.489
LTE B5	Right Touch	0.052	0.169	0.404	0.026	0.078	0.221	0.456	0.482
LTE B5	Right Tilt	0.041	0.098	0.290	0.016	0.057	0.139	0.331	0.347
LTE B5	Left Touch	0.187	0.587	0.637	0.128	0.315	0.774	0.824	0.952
LTE B5	Left Tilt	0.074	0.258	0.364	0.040	0.114	0.332	0.438	0.478

WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant2	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
GSM 1900	Right Touch	0.799	0.169	0.404	0.026	0.825	0.968	1.203	1.229
GSM 1900	Right Tilt	1.021	0.098	0.290	0.016	1.037	1.119	1.311	1.327
GSM 1900	Left Touch	0.561	0.587	0.637	0.128	0.689	1.148	1.198	1.326
GSM 1900	Left Tilt	0.719	0.258	0.364	0.040	0.759	0.977	1.083	1.123
WCDMA II	Right Touch	0.909	0.169	0.404	0.026	0.935	1.078	1.313	1.339
WCDMA II	Right Tilt	1.072	0.098	0.290	0.016	1.088	1.170	1.362	1.378
WCDMA II	Left Touch	0.517	0.587	0.637	0.128	0.645	1.104	1.154	1.282
WCDMA II	Left Tilt	0.681	0.258	0.364	0.040	0.721	0.939	1.045	1.085

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WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant3	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
LTE B38	Right Touch	0.351	0.169	0.404	0.026	0.377	0.520	0.755	0.781
LTE B38	Right Tilt	0.049	0.098	0.290	0.016	0.065	0.147	0.339	0.355
LTE B38	Left Touch	0.409	0.587	0.637	0.128	0.537	0.996	1.046	1.174
LTE B38	Left Tilt	0.046	0.258	0.364	0.040	0.086	0.304	0.410	0.450
LTE B41	Right Touch	0.338	0.169	0.404	0.026	0.364	0.507	0.742	0.768
LTE B41	Right Tilt	0.068	0.098	0.290	0.016	0.084	0.166	0.358	0.374
LTE B41	Left Touch	0.710	0.587	0.637	0.128	0.838	1.297	1.347	1.475
LTE B41	Left Tilt	0.079	0.258	0.364	0.040	0.119	0.337	0.443	0.483
5G n38	Right Touch	0.348	0.169	0.404	0.026	0.374	0.517	0.752	0.778
5G n38	Right Tilt	0.199	0.098	0.290	0.016	0.215	0.297	0.489	0.505
5G n38	Left Touch	0.815	0.587	0.637	0.128	0.943	1.402	1.452	1.580
5G n38	Left Tilt	0.141	0.258	0.364	0.040	0.181	0.399	0.505	0.545
5G n41	Right Touch	0.584	0.169	0.404	0.026	0.610	0.753	0.988	1.014
5G n41	Right Tilt	0.228	0.098	0.290	0.016	0.244	0.326	0.518	0.534
5G n41	Left Touch	0.486	0.587	0.637	0.128	0.614	1.073	1.123	1.251
5G n41	Left Tilt	0.075	0.258	0.364	0.040	0.115	0.333	0.439	0.479

WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant4	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
LTE B7	Right Touch	0.801	0.169	0.404	0.026	0.827	0.970	1.205	1.231
LTE B7	Right Tilt	0.617	0.098	0.290	0.016	0.633	0.715	0.907	0.923
LTE B7	Left Touch	0.257	0.587	0.637	0.128	0.385	0.844	0.894	1.022
LTE B7	Left Tilt	0.218	0.258	0.364	0.040	0.258	0.476	0.582	0.622
LTE B38	Right Touch	1.041	0.169	0.404	0.026	1.067	1.210	1.445	1.471
LTE B38	Right Tilt	0.709	0.098	0.290	0.016	0.725	0.807	0.999	1.015
LTE B38	Left Touch	0.237	0.587	0.637	0.128	0.365	0.824	0.874	1.002
LTE B38	Left Tilt	0.204	0.258	0.364	0.040	0.244	0.462	0.568	0.608
LTE B41	Right Touch	0.946	0.169	0.404	0.026	0.972	1.115	1.350	1.376
LTE B41	Right Tilt	0.642	0.098	0.290	0.016	0.658	0.740	0.932	0.948
LTE B41	Left Touch	0.222	0.587	0.637	0.128	0.350	0.809	0.859	0.987
LTE B41	Left Tilt	0.184	0.258	0.364	0.040	0.224	0.442	0.548	0.588
5G n7	Right Touch	0.801	0.169	0.404	0.026	0.827	0.970	1.205	1.231
5G n7	Right Tilt	0.536	0.098	0.290	0.016	0.552	0.634	0.826	0.842
5G n7	Left Touch	0.207	0.587	0.637	0.128	0.335	0.794	0.844	0.972
5G n7	Left Tilt	0.162	0.258	0.364	0.040	0.202	0.420	0.526	0.566
5G n38	Right Touch	0.869	0.169	0.404	0.026	0.895	1.038	1.273	1.299
5G n38	Right Tilt	0.479	0.098	0.290	0.016	0.495	0.577	0.769	0.785
5G n38	Left Touch	0.157	0.587	0.637	0.128	0.285	0.744	0.794	0.922
5G n38	Left Tilt	0.153	0.258	0.364	0.040	0.193	0.411	0.517	0.557
5G n41	Right Touch	0.918	0.169	0.404	0.026	0.944	1.087	1.322	1.348
5G n41	Right Tilt	0.626	0.098	0.290	0.016	0.642	0.724	0.916	0.932
5G n41	Left Touch	0.215	0.587	0.637	0.128	0.343	0.802	0.852	0.980
5G n41	Left Tilt	0.199	0.258	0.364	0.040	0.239	0.457	0.563	0.603

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WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant7	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
LTE B38	Right Touch	0.335	0.169	0.404	0.026	0.361	0.504	0.739	0.765
LTE B38	Right Tilt	0.306	0.098	0.290	0.016	0.322	0.404	0.596	0.612
LTE B38	Left Touch	0.612	0.587	0.637	0.128	0.740	1.199	1.249	1.377
LTE B38	Left Tilt	0.864	0.258	0.364	0.040	0.904	1.122	1.228	1.268
LTE B41	Right Touch	0.341	0.169	0.404	0.026	0.367	0.510	0.745	0.771
LTE B41	Right Tilt	0.408	0.098	0.290	0.016	0.424	0.506	0.698	0.714
LTE B41	Left Touch	0.765	0.587	0.637	0.128	0.893	1.352	1.402	1.530
LTE B41	Left Tilt	0.931	0.258	0.364	0.040	0.971	1.189	1.295	1.335
5G n38	Right Touch	0.421	0.169	0.404	0.026	0.447	0.590	0.825	0.851
5G n38	Right Tilt	0.345	0.098	0.290	0.016	0.361	0.443	0.635	0.651
5G n38	Left Touch	0.813	0.587	0.637	0.128	0.941	1.400	1.450	1.578
5G n38	Left Tilt	0.637	0.258	0.364	0.040	0.677	0.895	1.001	1.041
5G n41	Right Touch	0.603	0.169	0.404	0.026	0.629	0.772	1.007	1.033
5G n41	Right Tilt	0.506	0.098	0.290	0.016	0.522	0.604	0.796	0.812
5G n41	Left Touch	0.778	0.587	0.637	0.128	0.906	1.365	1.415	1.543
5G n41	Left Tilt	0.649	0.258	0.364	0.040	0.689	0.907	1.013	1.053

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hotspot_DSI 13

WWAN	Exposure position 1g(W/kg)	WWAN SA mode				0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		0 WWAN Ant0	1 WLAN 2.4GHz Ant9	2 WLAN 5GHz Ant8	3 Bluetooth Ant9				
GPRS 1900	Front Surface	0.221	0.175	0.138	0.062	0.283	0.396	0.359	0.421
GPRS 1900	Back Surface	0.333	0.243	0.276	0.098	0.431	0.576	0.609	0.707
GPRS 1900	Top Edge	0.001	0.052	0.208	0.002	0.003	0.053	0.209	0.211
GPRS 1900	Bottom Edge	0.465	0.001	0.011	0.002	0.467	0.466	0.476	0.478
GPRS 1900	Left Edge	0.091	0.001	0.064	0.002	0.093	0.092	0.155	0.157
GPRS 1900	Right Edge	0.088	0.366	0.640	0.136	0.224	0.454	0.728	0.864
WCDMA II	Front Surface	0.374	0.175	0.138	0.062	0.436	0.549	0.512	0.574
WCDMA II	Back Surface	0.423	0.243	0.276	0.098	0.521	0.666	0.699	0.797
WCDMA II	Top Edge	0.003	0.052	0.208	0.002	0.005	0.055	0.211	0.213
WCDMA II	Bottom Edge	0.871	0.001	0.011	0.002	0.873	0.872	0.882	0.884
WCDMA II	Left Edge	0.135	0.001	0.064	0.002	0.137	0.136	0.199	0.201
WCDMA II	Right Edge	0.076	0.366	0.640	0.136	0.212	0.442	0.716	0.852
LTE B7	Front Surface	0.290	0.175	0.138	0.062	0.352	0.465	0.428	0.490
LTE B7	Back Surface	0.587	0.243	0.276	0.098	0.685	0.830	0.863	0.961
LTE B7	Top Edge	0.003	0.052	0.208	0.002	0.005	0.055	0.211	0.213
LTE B7	Bottom Edge	1.059	0.001	0.011	0.002	1.061	1.060	1.070	1.072
LTE B7	Left Edge	0.116	0.001	0.064	0.002	0.118	0.117	0.180	0.182
LTE B7	Right Edge	0.100	0.366	0.640	0.136	0.236	0.466	0.740	0.876
LTE B38	Front Surface	0.374	0.175	0.138	0.062	0.436	0.549	0.512	0.574
LTE B38	Back Surface	0.485	0.243	0.276	0.098	0.583	0.728	0.761	0.859
LTE B38	Top Edge	0.001	0.052	0.208	0.002	0.003	0.053	0.209	0.211
LTE B38	Bottom Edge	0.767	0.001	0.011	0.002	0.769	0.768	0.778	0.780
LTE B38	Left Edge	0.120	0.001	0.064	0.002	0.122	0.121	0.184	0.186
LTE B38	Right Edge	0.122	0.366	0.640	0.136	0.258	0.488	0.762	0.898
LTE B41	Front Surface	0.313	0.175	0.138	0.062	0.375	0.488	0.451	0.513
LTE B41	Back Surface	0.658	0.243	0.276	0.098	0.756	0.901	0.934	1.032
LTE B41	Top Edge	0.057	0.052	0.208	0.002	0.059	0.109	0.265	0.267
LTE B41	Bottom Edge	0.857	0.001	0.011	0.002	0.859	0.858	0.868	0.870
LTE B41	Left Edge	0.148	0.001	0.064	0.002	0.150	0.149	0.212	0.214
LTE B41	Right Edge	0.094	0.366	0.640	0.136	0.230	0.460	0.734	0.870
5G n7	Front Surface	0.194	0.175	0.138	0.062	0.256	0.369	0.332	0.394
5G n7	Back Surface	0.276	0.243	0.276	0.098	0.374	0.519	0.552	0.650
5G n7	Top Edge	0.002	0.052	0.208	0.002	0.004	0.054	0.210	0.212
5G n7	Bottom Edge	0.665	0.001	0.011	0.002	0.667	0.666	0.676	0.678
5G n7	Left Edge	0.075	0.001	0.064	0.002	0.077	0.076	0.139	0.141
5G n7	Right Edge	0.064	0.366	0.640	0.136	0.200	0.430	0.704	0.840
5G n38	Front Surface	0.355	0.175	0.138	0.062	0.417	0.530	0.493	0.555
5G n38	Back Surface	0.478	0.243	0.276	0.098	0.576	0.721	0.754	0.852
5G n38	Top Edge	0.002	0.052	0.208	0.002	0.004	0.054	0.210	0.212
5G n38	Bottom Edge	0.833	0.001	0.011	0.002	0.835	0.834	0.844	0.846
5G n38	Left Edge	0.117	0.001	0.064	0.002	0.119	0.118	0.181	0.183
5G n38	Right Edge	0.107	0.366	0.640	0.136	0.243	0.473	0.747	0.883
5G n41	Front Surface	0.192	0.175	0.138	0.062	0.254	0.367	0.330	0.392
5G n41	Back Surface	0.400	0.243	0.276	0.098	0.498	0.643	0.676	0.774
5G n41	Top Edge	0.036	0.052	0.208	0.002	0.038	0.088	0.244	0.246
5G n41	Bottom Edge	0.717	0.001	0.011	0.002	0.719	0.718	0.728	0.730
5G n41	Left Edge	0.082	0.001	0.064	0.002	0.084	0.083	0.146	0.148
5G n41	Right Edge	0.068	0.366	0.640	0.136	0.204	0.434	0.708	0.844

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WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant1	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
GPRS 850	Front Surface	0.293	0.175	0.151	0.054	0.347	0.468	0.444	0.498
GPRS 850	Back Surface	0.351	0.243	0.302	0.085	0.436	0.594	0.653	0.738
GPRS 850	Top Edge	0.001	0.052	0.227	0.001	0.002	0.053	0.228	0.229
GPRS 850	Bottom Edge	0.284	0.001	0.012	0.001	0.285	0.285	0.296	0.297
GPRS 850	Left Edge	0.132	0.001	0.064	0.001	0.133	0.133	0.196	0.197
GPRS 850	Right Edge	0.111	0.366	0.700	0.119	0.230	0.477	0.811	0.930
WCDMA V	Front Surface	0.331	0.175	0.151	0.054	0.385	0.506	0.482	0.536
WCDMA V	Back Surface	0.459	0.243	0.302	0.085	0.544	0.702	0.761	0.846
WCDMA V	Top Edge	0.001	0.052	0.227	0.001	0.002	0.053	0.228	0.229
WCDMA V	Bottom Edge	0.350	0.001	0.012	0.001	0.351	0.351	0.362	0.363
WCDMA V	Left Edge	0.148	0.001	0.064	0.001	0.149	0.149	0.212	0.213
WCDMA V	Right Edge	0.212	0.366	0.700	0.119	0.331	0.578	0.912	1.031
LTE B5	Front Surface	0.287	0.175	0.151	0.054	0.341	0.462	0.438	0.492
LTE B5	Back Surface	0.351	0.243	0.302	0.085	0.436	0.594	0.653	0.738
LTE B5	Top Edge	0.001	0.052	0.227	0.001	0.002	0.053	0.228	0.229
LTE B5	Bottom Edge	0.287	0.001	0.012	0.001	0.288	0.288	0.299	0.300
LTE B5	Left Edge	0.001	0.001	0.064	0.001	0.002	0.002	0.065	0.066
LTE B5	Right Edge	0.001	0.366	0.700	0.119	0.120	0.367	0.701	0.820

WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant2	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
GPRS 1900	Front Surface	0.233	0.175	0.151	0.054	0.287	0.408	0.384	0.438
GPRS 1900	Back Surface	0.384	0.243	0.302	0.085	0.469	0.627	0.686	0.771
GPRS 1900	Top Edge	0.559	0.052	0.227	0.001	0.560	0.611	0.786	0.787
GPRS 1900	Bottom Edge	0.001	0.001	0.012	0.001	0.002	0.002	0.013	0.014
GPRS 1900	Left Edge	0.110	0.001	0.064	0.001	0.111	0.111	0.174	0.175
GPRS 1900	Right Edge	0.063	0.366	0.700	0.119	0.182	0.429	0.763	0.882
WCDMA II	Front Surface	0.227	0.175	0.151	0.054	0.281	0.402	0.378	0.432
WCDMA II	Back Surface	0.383	0.243	0.302	0.085	0.468	0.626	0.685	0.770
WCDMA II	Top Edge	0.640	0.052	0.227	0.001	0.641	0.692	0.867	0.868
WCDMA II	Bottom Edge	0.001	0.001	0.012	0.001	0.002	0.002	0.013	0.014
WCDMA II	Left Edge	0.120	0.001	0.064	0.001	0.121	0.121	0.184	0.185
WCDMA II	Right Edge	0.057	0.366	0.700	0.119	0.176	0.423	0.757	0.876

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WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant3	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
LTE B38	Front Surface	0.153	0.175	0.151	0.054	0.207	0.328	0.304	0.358
LTE B38	Back Surface	0.221	0.243	0.302	0.085	0.306	0.464	0.523	0.608
LTE B38	Top Edge	0.002	0.052	0.227	0.001	0.003	0.054	0.229	0.230
LTE B38	Bottom Edge	0.002	0.001	0.012	0.001	0.003	0.003	0.014	0.015
LTE B38	Left Edge	0.767	0.001	0.064	0.001	0.768	0.768	0.831	0.832
LTE B38	Right Edge	0.002	0.366	0.700	0.119	0.121	0.368	0.702	0.821
LTE B41	Front Surface	0.208	0.175	0.151	0.054	0.262	0.383	0.359	0.413
LTE B41	Back Surface	0.271	0.243	0.302	0.085	0.356	0.514	0.573	0.658
LTE B41	Top Edge	0.001	0.052	0.227	0.001	0.002	0.053	0.228	0.229
LTE B41	Bottom Edge	0.001	0.001	0.012	0.001	0.002	0.002	0.013	0.014
LTE B41	Left Edge	0.864	0.001	0.064	0.001	0.865	0.865	0.928	0.929
LTE B41	Right Edge	0.001	0.366	0.700	0.119	0.120	0.367	0.701	0.820
5G n38	Front Surface	0.185	0.175	0.151	0.054	0.239	0.360	0.336	0.390
5G n38	Back Surface	0.235	0.243	0.302	0.085	0.320	0.478	0.537	0.622
5G n38	Top Edge	0.001	0.052	0.227	0.001	0.002	0.053	0.228	0.229
5G n38	Bottom Edge	0.001	0.001	0.012	0.001	0.002	0.002	0.013	0.014
5G n38	Left Edge	0.532	0.001	0.064	0.001	0.533	0.533	0.596	0.597
5G n38	Right Edge	0.001	0.366	0.700	0.119	0.120	0.367	0.701	0.820
5G n41	Front Surface	0.124	0.175	0.151	0.054	0.178	0.299	0.275	0.329
5G n41	Back Surface	0.173	0.243	0.302	0.085	0.258	0.416	0.475	0.560
5G n41	Top Edge	0.001	0.052	0.227	0.001	0.002	0.053	0.228	0.229
5G n41	Bottom Edge	0.001	0.001	0.012	0.001	0.002	0.002	0.013	0.014
5G n41	Left Edge	0.336	0.001	0.064	0.001	0.337	0.337	0.400	0.401
5G n41	Right Edge	0.001	0.366	0.700	0.119	0.120	0.367	0.701	0.820

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WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant4	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
LTE B7	Front Surface	0.274	0.175	0.151	0.054	0.328	0.449	0.425	0.479
LTE B7	Back Surface	0.476	0.243	0.302	0.085	0.561	0.719	0.778	0.863
LTE B7	Top Edge	0.208	0.052	0.227	0.001	0.209	0.260	0.435	0.436
LTE B7	Bottom Edge	0.028	0.001	0.012	0.001	0.029	0.029	0.040	0.041
LTE B7	Left Edge	1.049	0.001	0.064	0.001	1.050	1.050	1.113	1.114
LTE B7	Right Edge	0.002	0.366	0.700	0.119	0.121	0.368	0.702	0.821
LTE B38	Front Surface	0.294	0.175	0.151	0.054	0.348	0.469	0.445	0.499
LTE B38	Back Surface	0.508	0.243	0.302	0.085	0.593	0.751	0.810	0.895
LTE B38	Top Edge	0.235	0.052	0.227	0.001	0.236	0.287	0.462	0.463
LTE B38	Bottom Edge	0.004	0.001	0.012	0.001	0.005	0.005	0.016	0.017
LTE B38	Left Edge	0.789	0.001	0.064	0.001	0.790	0.790	0.853	0.854
LTE B38	Right Edge	0.002	0.366	0.700	0.119	0.121	0.368	0.702	0.821
LTE B41	Front Surface	0.172	0.175	0.151	0.054	0.226	0.347	0.323	0.377
LTE B41	Back Surface	0.229	0.243	0.302	0.085	0.314	0.472	0.531	0.616
LTE B41	Top Edge	0.001	0.052	0.227	0.001	0.002	0.053	0.228	0.229
LTE B41	Bottom Edge	0.001	0.001	0.012	0.001	0.002	0.002	0.013	0.014
LTE B41	Left Edge	0.565	0.001	0.064	0.001	0.566	0.566	0.629	0.630
LTE B41	Right Edge	0.001	0.366	0.700	0.119	0.120	0.367	0.701	0.820
5G n7	Front Surface	0.362	0.175	0.151	0.054	0.416	0.537	0.513	0.567
5G n7	Back Surface	0.493	0.243	0.302	0.085	0.578	0.736	0.795	0.880
5G n7	Top Edge	0.313	0.052	0.227	0.001	0.314	0.365	0.540	0.541
5G n7	Bottom Edge	0.069	0.001	0.012	0.001	0.070	0.070	0.081	0.082
5G n7	Left Edge	1.092	0.001	0.064	0.001	1.093	1.093	1.156	1.157
5G n7	Right Edge	0.001	0.366	0.700	0.119	0.120	0.367	0.701	0.820
5G n38	Front Surface	0.105	0.175	0.151	0.054	0.159	0.280	0.256	0.310
5G n38	Back Surface	0.182	0.243	0.302	0.085	0.267	0.425	0.484	0.569
5G n38	Top Edge	0.065	0.052	0.227	0.001	0.066	0.117	0.292	0.293
5G n38	Bottom Edge	0.024	0.001	0.012	0.001	0.025	0.025	0.036	0.037
5G n38	Left Edge	0.372	0.001	0.064	0.001	0.373	0.373	0.436	0.437
5G n38	Right Edge	0.001	0.366	0.700	0.119	0.120	0.367	0.701	0.820
5G n41	Front Surface	0.114	0.175	0.151	0.054	0.168	0.289	0.265	0.319
5G n41	Back Surface	0.194	0.243	0.302	0.085	0.279	0.437	0.496	0.581
5G n41	Top Edge	0.075	0.052	0.227	0.001	0.076	0.127	0.302	0.303
5G n41	Bottom Edge	0.026	0.001	0.012	0.001	0.027	0.027	0.038	0.039
5G n41	Left Edge	0.365	0.001	0.064	0.001	0.366	0.366	0.429	0.430
5G n41	Right Edge	0.001	0.366	0.700	0.119	0.120	0.367	0.701	0.820

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WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant7	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
LTE B38	Front Surface	0.104	0.175	0.151	0.054	0.158	0.279	0.255	0.309
LTE B38	Back Surface	0.135	0.243	0.302	0.085	0.220	0.378	0.437	0.522
LTE B38	Top Edge	0.276	0.052	0.227	0.001	0.277	0.328	0.503	0.504
LTE B38	Bottom Edge	0.023	0.001	0.012	0.001	0.024	0.024	0.035	0.036
LTE B38	Left Edge	0.019	0.001	0.064	0.001	0.020	0.020	0.083	0.084
LTE B38	Right Edge	0.062	0.366	0.700	0.119	0.181	0.428	0.762	0.881
LTE B41	Front Surface	0.110	0.175	0.151	0.054	0.164	0.285	0.261	0.315
LTE B41	Back Surface	0.241	0.243	0.302	0.085	0.326	0.484	0.543	0.628
LTE B41	Top Edge	0.302	0.052	0.227	0.001	0.303	0.354	0.529	0.530
LTE B41	Bottom Edge	0.029	0.001	0.012	0.001	0.030	0.030	0.041	0.042
LTE B41	Left Edge	0.018	0.001	0.064	0.001	0.019	0.019	0.082	0.083
LTE B41	Right Edge	0.112	0.366	0.700	0.119	0.231	0.478	0.812	0.931
5G n38	Front Surface	0.196	0.175	0.151	0.054	0.250	0.371	0.347	0.401
5G n38	Back Surface	0.313	0.243	0.302	0.085	0.398	0.556	0.615	0.700
5G n38	Top Edge	0.622	0.052	0.227	0.001	0.623	0.674	0.849	0.850
5G n38	Bottom Edge	0.001	0.001	0.012	0.001	0.002	0.002	0.013	0.014
5G n38	Left Edge	0.001	0.001	0.064	0.001	0.002	0.002	0.065	0.066
5G n38	Right Edge	0.200	0.366	0.700	0.119	0.319	0.566	0.900	1.019
5G n41	Front Surface	0.214	0.175	0.151	0.054	0.268	0.389	0.365	0.419
5G n41	Back Surface	0.359	0.243	0.302	0.085	0.444	0.602	0.661	0.746
5G n41	Top Edge	0.615	0.052	0.227	0.001	0.616	0.667	0.842	0.843
5G n41	Bottom Edge	0.001	0.001	0.012	0.001	0.002	0.002	0.013	0.014
5G n41	Left Edge	0.001	0.001	0.064	0.001	0.002	0.002	0.065	0.066
5G n41	Right Edge	0.252	0.366	0.700	0.119	0.371	0.618	0.952	1.071

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body worn_DSI 3

WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant0	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
GSM 1900	Front Surface	0.135	0.104	0.174	0.005	0.140	0.239	0.309	0.314
GSM 1900	Back Surface	0.145	0.320	0.383	0.027	0.172	0.465	0.528	0.555
WCDMA II	Front Surface	0.290	0.104	0.174	0.005	0.295	0.394	0.464	0.469
WCDMA II	Back Surface	0.663	0.320	0.383	0.027	0.690	0.983	1.046	1.073
LTE B7	Front Surface	0.180	0.104	0.174	0.005	0.185	0.284	0.354	0.359
LTE B7	Back Surface	0.355	0.320	0.383	0.027	0.382	0.675	0.738	0.765
LTE B38	Front Surface	0.143	0.104	0.174	0.005	0.148	0.247	0.317	0.322
LTE B38	Back Surface	0.224	0.320	0.383	0.027	0.251	0.544	0.607	0.634
LTE B41	Front Surface	0.180	0.104	0.174	0.005	0.185	0.284	0.354	0.359
LTE B41	Back Surface	0.237	0.320	0.383	0.027	0.264	0.557	0.620	0.647
5G n7	Front Surface	0.129	0.104	0.174	0.005	0.134	0.233	0.303	0.308
5G n7	Back Surface	0.208	0.320	0.383	0.027	0.235	0.528	0.591	0.618
5G n38	Front Surface	0.109	0.104	0.174	0.005	0.114	0.213	0.283	0.288
5G n38	Back Surface	0.185	0.320	0.383	0.027	0.212	0.505	0.568	0.595
5G n41	Front Surface	0.194	0.104	0.174	0.005	0.199	0.298	0.368	0.373
5G n41	Back Surface	0.281	0.320	0.383	0.027	0.308	0.601	0.664	0.691

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		WWAN SA mode										
WWAN	Exposure position 1g(W/kg)	0	1		2		3		0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant1	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9							
GSM 850	Front Surface	0.172	0.104	0.174	0.004	0.176	0.276	0.346	0.350			
GSM 850	Back Surface	0.206	0.320	0.383	0.024	0.230	0.526	0.589	0.613			
WCDMA V	Front Surface	0.279	0.104	0.174	0.004	0.283	0.383	0.453	0.457			
WCDMA V	Back Surface	0.417	0.320	0.383	0.024	0.441	0.737	0.800	0.824			
LTE B5	Front Surface	0.173	0.104	0.174	0.004	0.177	0.277	0.347	0.351			
LTE B5	Back Surface	0.216	0.320	0.383	0.024	0.240	0.536	0.599	0.623			

		WWAN SA mode										
WWAN	Exposure position 1g(W/kg)	0	1		2		3		0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant2	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9							
GSM 1900	Front Surface	0.144	0.104	0.174	0.004	0.148	0.248	0.318	0.322			
GSM 1900	Back Surface	0.209	0.320	0.383	0.024	0.233	0.529	0.592	0.616			
WCDMA II	Front Surface	0.295	0.104	0.174	0.004	0.299	0.399	0.469	0.473			
WCDMA II	Back Surface	0.435	0.320	0.383	0.024	0.459	0.755	0.818	0.842			

		WWAN SA mode										
WWAN	Exposure position 1g(W/kg)	0	1		2		3		0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant3	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9							
LTE B38	Front Surface	0.115	0.104	0.174	0.004	0.119	0.219	0.289	0.293			
LTE B38	Back Surface	0.129	0.320	0.383	0.024	0.153	0.449	0.512	0.536			
LTE B41	Front Surface	0.102	0.104	0.174	0.004	0.106	0.206	0.276	0.280			
LTE B41	Back Surface	0.128	0.320	0.383	0.024	0.152	0.448	0.511	0.535			
5G n38	Front Surface	0.119	0.104	0.174	0.004	0.123	0.223	0.293	0.297			
5G n38	Back Surface	0.171	0.320	0.383	0.024	0.195	0.491	0.554	0.578			
5G n41	Front Surface	0.071	0.104	0.174	0.004	0.075	0.175	0.245	0.249			
5G n41	Back Surface	0.248	0.320	0.383	0.024	0.272	0.568	0.631	0.655			

		WWAN SA mode										
WWAN	Exposure position 1g(W/kg)	0	1		2		3		0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant4	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9							
LTE B7	Front Surface	0.133	0.104	0.174	0.004	0.137	0.237	0.307	0.311			
LTE B7	Back Surface	0.304	0.320	0.383	0.024	0.328	0.624	0.687	0.711			
LTE B38	Front Surface	0.147	0.104	0.174	0.004	0.151	0.251	0.321	0.325			
LTE B38	Back Surface	0.189	0.320	0.383	0.024	0.213	0.509	0.572	0.596			
LTE B41	Front Surface	0.148	0.104	0.174	0.004	0.152	0.252	0.322	0.326			
LTE B41	Back Surface	0.179	0.320	0.383	0.024	0.203	0.499	0.562	0.586			
5G n7	Front Surface	0.177	0.104	0.174	0.004	0.181	0.281	0.351	0.355			
5G n7	Back Surface	0.367	0.320	0.383	0.024	0.391	0.687	0.750	0.774			
5G n38	Front Surface	0.244	0.104	0.174	0.004	0.248	0.348	0.418	0.422			
5G n38	Back Surface	0.410	0.320	0.383	0.024	0.434	0.730	0.793	0.817			
5G n41	Front Surface	0.235	0.104	0.174	0.004	0.239	0.339	0.409	0.413			
5G n41	Back Surface	0.435	0.320	0.383	0.024	0.459	0.755	0.818	0.842			

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WWAN SA mode

WWAN	Exposure position 1g(W/kg)	0	1	2	3	0+3 Sum	0+1 Sum	0+2 Sum	0+2+3 Sum
		WWAN Ant7	WLAN 2.4GHz Ant9	WLAN 5GHz Ant8	Bluetooth Ant9				
LTE B38	Front Surface	0.069	0.104	0.174	0.004	0.073	0.173	0.243	0.247
LTE B38	Back Surface	0.135	0.320	0.383	0.024	0.159	0.455	0.518	0.542
LTE B41	Front Surface	0.096	0.104	0.174	0.004	0.100	0.200	0.270	0.274
LTE B41	Back Surface	0.145	0.320	0.383	0.024	0.169	0.465	0.528	0.552
5G n38	Front Surface	0.103	0.104	0.174	0.004	0.107	0.207	0.277	0.281
5G n38	Back Surface	0.227	0.320	0.383	0.024	0.251	0.547	0.610	0.634
5G n41	Front Surface	0.107	0.104	0.174	0.004	0.111	0.211	0.281	0.285
5G n41	Back Surface	0.265	0.320	0.383	0.024	0.289	0.585	0.648	0.672

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Extremity_DSI 3

WWAN SA mode

WWAN	Exposure position 10g(W/kg)	0	2	0+2 Sum
		WWAN Ant0	WLAN 5GHz Ant8	
WCDMA II	Front Surface	1.368	0.613	1.981
WCDMA II	Back Surface	1.914	1.033	2.947
WCDMA II	Top Edge	0.001	0.432	0.433
WCDMA II	Bottom Edge	2.117	0.001	2.118
WCDMA II	Left Edge	0.415	0.015	0.430
WCDMA II	Right Edge	0.498	2.075	2.573
LTE B7	Front Surface	1.019	0.613	1.632
LTE B7	Back Surface	2.154	1.033	3.187
LTE B7	Top Edge	0.001	0.432	0.433
LTE B7	Bottom Edge	2.779	0.001	2.780
LTE B7	Left Edge	0.383	0.015	0.398
LTE B7	Right Edge	0.298	2.075	2.373
5G n7	Front Surface	0.720	0.613	1.333
5G n7	Back Surface	1.794	1.033	2.827
5G n7	Top Edge	0.040	0.432	0.472
5G n7	Bottom Edge	2.629	0.001	2.630
5G n7	Left Edge	0.270	0.015	0.285
5G n7	Right Edge	0.286	2.075	2.361
5G n38	Front Surface	0.754	0.613	1.367
5G n38	Back Surface	1.346	1.033	2.379
5G n38	Top Edge	0.052	0.432	0.484
5G n38	Bottom Edge	2.453	0.001	2.454
5G n38	Left Edge	0.238	0.015	0.253
5G n38	Right Edge	0.208	2.075	2.283

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WWAN SA mode

WWAN	Exposure position 10g(W/kg)	0	2	0+2 Sum
		WWAN Ant2	WLAN 5GHz Ant8	
WCDMA II	Front Surface	0.484	0.613	1.097
WCDMA II	Back Surface	0.608	1.033	1.641
WCDMA II	Top Edge	0.809	0.432	1.241
WCDMA II	Bottom Edge	0.001	0.001	0.002
WCDMA II	Left Edge	0.361	0.015	0.376
WCDMA II	Right Edge	0.084	2.075	2.159

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR (10-g SAR) is < 1.6 W/kg (4.0 W/kg) or the SPLSR is ≤ 0.04 for 1g (0.1 for 10g) 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	7686	Oct.05,2021	Oct.04,2022
SPEAG	System Validation Dipole	D835V2	4d063	Oct.18,2021	Oct.17,2022
		D1900V2	5d173	Apr.15,2021	Apr.14,2022
		D2450V2	727	Apr.14,2021	Apr.13,2022
		D2600V2	1005	Jan.18,2022	Jan.17,2023
		D5GHzV2	1023	Jan.27,2022	Jan.26,2023
SPEAG	Data acquisition Electronics	DAE4	1665	Feb.28,2022	Feb.27,2023
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	SAM	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.28,2022	Feb.27,2023
Agilent	Dual-directional coupler	772D	MY46151242	Aug.16,2021	Aug.15,2022
		778D	MY48220468	Aug.16,2021	Aug.15,2022
Agilent	RF Signal Generator	N5181A	MY50145142	Dec.23,2021	Dec.22,2022
R&S	Power Meter	NRX	102191	Jan.22,2022	Jan.21,2023
R&S	Power Sensor	NRP18S	101358	Jan.22,2022	Jan.21,2023
			109065	Oct.12,2021	Oct.11,2022
TECPEL	Digital thermometer	DTM-303A	TP190085	Jan.14,2022	Jan.13,2023
Anritsu	Radio Communication Test	MT8820C	6201061014	Jun.06,2021	Jun.05,2022
R&S	Radio Communication Test	CMW 500	125470	May.03,2021	May.02,2022

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5. Measurements

Date: 2022/3/30

Report No. :ES/2022/30012
GSM 1900_Head_Left Touch_CH 810_Ant0

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty cycle= 1:1

 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.396$ S/m; $\epsilon_r = 39.741$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.150 W/kg

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

Reference Value = 2.028 V/m; Power Drift = 0.17 dB

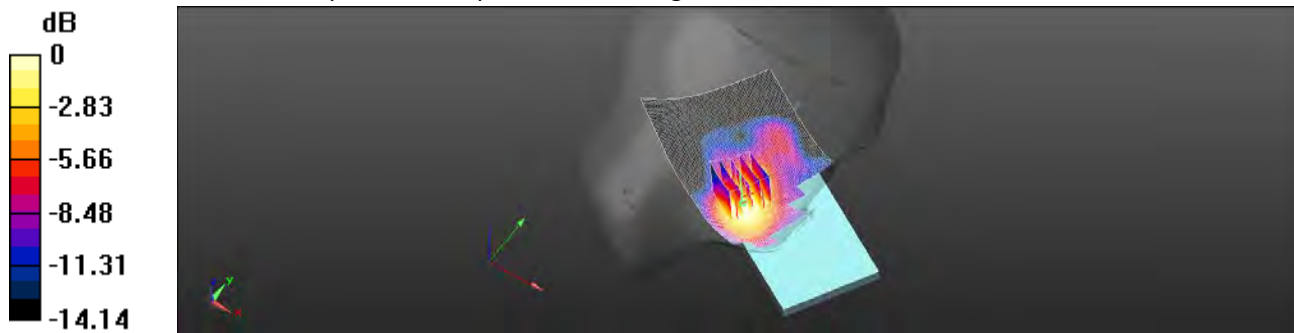
Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.074 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 69.2%

Maximum value of SAR (measured) = 0.143 W/kg



0 dB = 0.143 W/kg = -8.45 dBW/kg

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Report No. :ES/2022/30012

GPRS 1900_Hotspot_Bottom Edge_CH 810_Ant0_0mm

Communication System: GPRS 1900 (1Dn4Up); Frequency: 1909.8 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.396 \text{ S/m}$; $\epsilon_r = 39.741$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 0.867 W/kg

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

Reference Value = 1.791 V/m; Power Drift = -0.07 dB

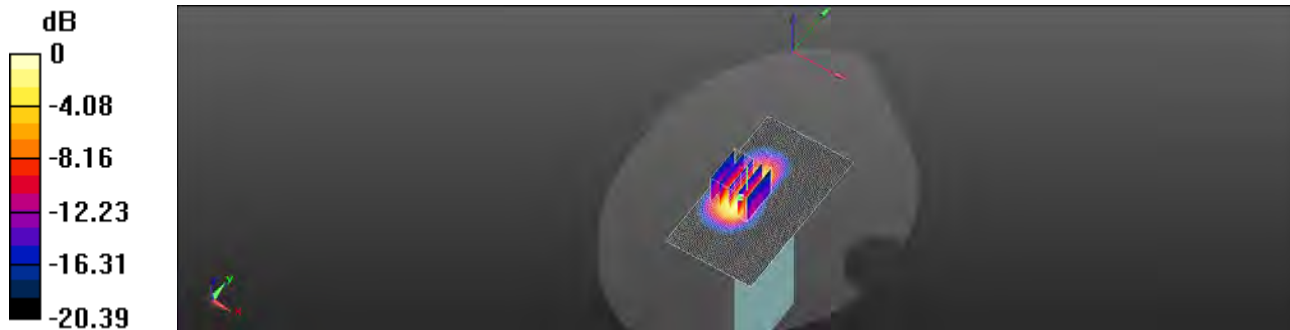
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.131 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 0.805 W/kg



0 dB = 0.805 W/kg = -0.94 dBW/kg

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Report No. :ES/2022/30012

GSM 1900_Body-Worn_Back Surface_CH 661_Ant 0_15mm

Communication System: GSM 1900; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.776$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.156 W/kg

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

Reference Value = 5.026 V/m; Power Drift = 0.14 dB

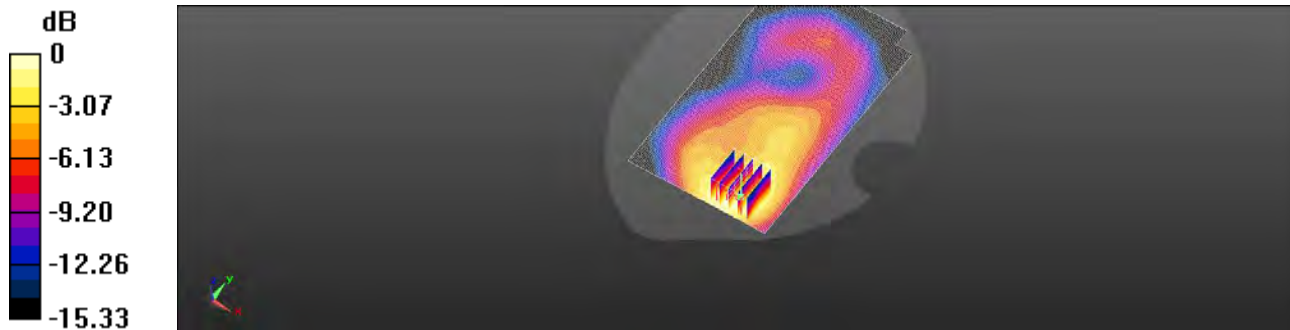
Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.074 W/kg

Smallest distance from peaks to all points 3 dB below = 18.2 mm

Ratio of SAR at M2 to SAR at M1 = 64%

Maximum value of SAR (measured) = 0.153 W/kg



0 dB = 0.153 W/kg = -8.16 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band II_Head_Left Touch_CH 9538_Ant0

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.395 \text{ S/m}$; $\epsilon_r = 39.744$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.179 W/kg

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

Reference Value = 2.794 V/m; Power Drift = 0.14 dB

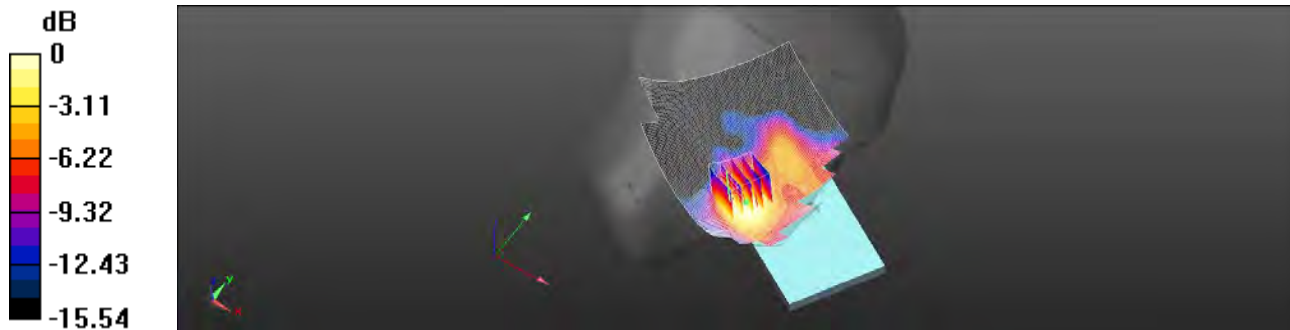
Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.090 W/kg

Smallest distance from peaks to all points 3 dB below = 13 mm

Ratio of SAR at M2 to SAR at M1 = 61.6%

Maximum value of SAR (measured) = 0.176 W/kg



0 dB = 0.176 W/kg = -7.53 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band II_Hotspot_Bottom Edge_CH 9538_Ant0_10mm

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.395 \text{ S/m}$; $\epsilon_r = 39.744$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.903 W/kg

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

Reference Value = 23.11 V/m; Power Drift = -0.07 dB

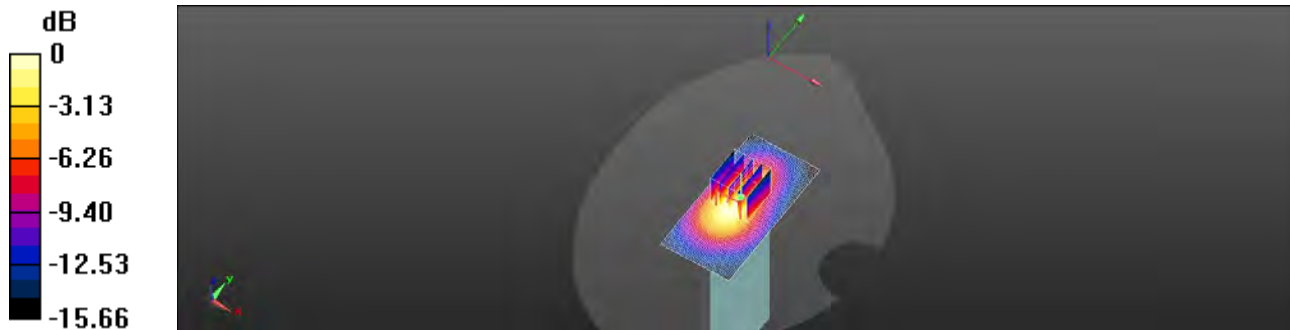
Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.628 W/kg; SAR(10 g) = 0.373 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.902 W/kg = -0.36 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band II_Body-Worn_Back Surface_CH 9400_Ant0_15mm

Communication System: WCDMA; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 39.776$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.909 W/kg

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

Reference Value = 8.859 V/m; Power Drift = -0.03 dB

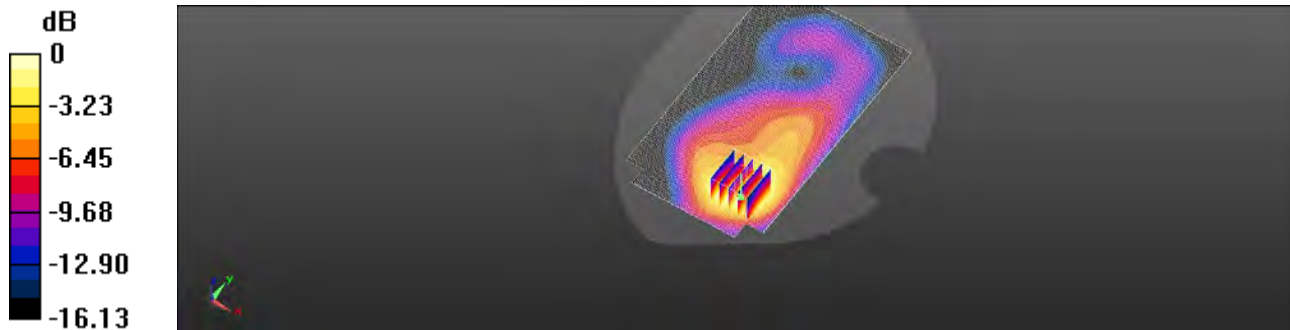
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.642 W/kg; SAR(10 g) = 0.378 W/kg

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 63.7%

Maximum value of SAR (measured) = 0.856 W/kg



0 dB = 0.856 W/kg = -0.69 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band II_Extremity_Bottom Edge_CH 9400_Ant0_0mm

Communication System: WCDMA; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.776$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 6.23 W/kg

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

Reference Value = 8.902 V/m; Power Drift = 0.08 dB

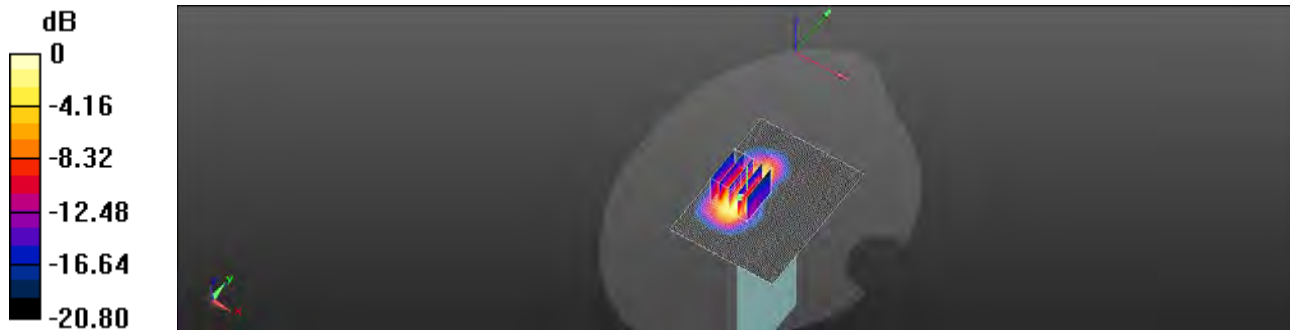
Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 4.59 W/kg; SAR(10 g) = 2.05 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.1%

Maximum value of SAR (measured) = 8.09 W/kg



0 dB = 8.09 W/kg = 9.08 dBW/kg

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Report No. :ES/2022/30012

LTE Band 7 (20MHz)_Head_Left Touch_CH 20850_QPSK_1-0_Ant0

Communication System: LTE; Frequency: 2510 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2510 \text{ MHz}$; $\sigma = 1.85 \text{ S/m}$; $\epsilon_r = 38.678$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.129 W/kg

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

Reference Value = 0.8450 V/m; Power Drift = 0.16 dB

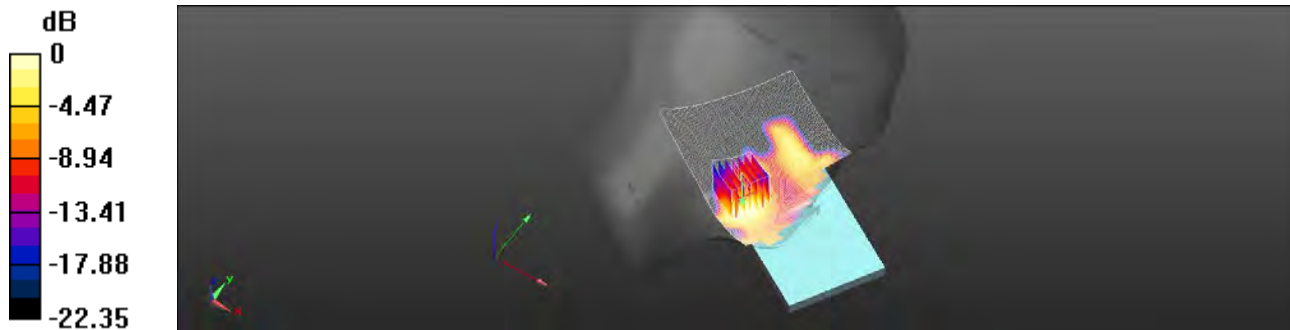
Peak SAR (extrapolated) = 0.149 W/kg

SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.047 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 63%

Maximum value of SAR (measured) = 0.116 W/kg



0 dB = 0.116 W/kg = -9.37 dBW/kg

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Report No. :ES/2022/30012

LTE Band 7 (20MHz)_Hotspot_Bottom Edge_CH 21350_QPSK_1-0_Ant0_10mm

Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.905$ S/m; $\epsilon_r = 38.626$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 22.20 V/m; Power Drift = -0.15 dB

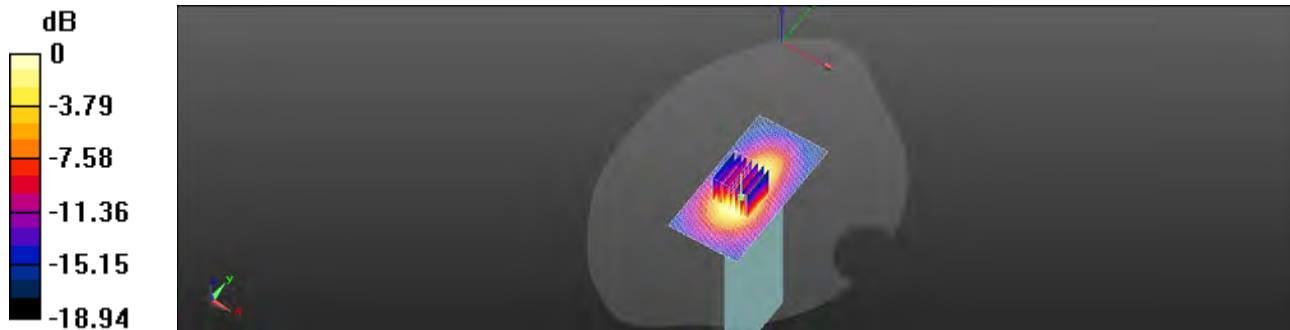
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.392 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

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



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Report No. :ES/2022/30012

LTE Band 7 (20MHz)_Body-Worn_Back Surface_CH 21350_QPSK_1-0_Ant0_15mm

Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.905$ S/m; $\epsilon_r = 38.626$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.345 W/kg

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

Reference Value = 3.365 V/m; Power Drift = 0.07 dB

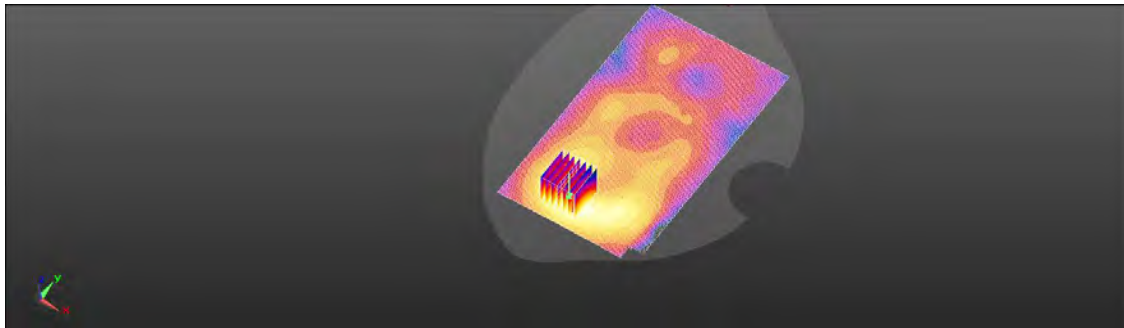
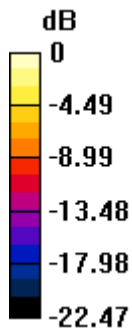
Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.130 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 0.335 W/kg



0 dB = 0.335 W/kg = -4.75 dBW/kg

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Report No. :ES/2022/30012

LTE Band 7 (20MHz)_Extremity_Bottom Edge_CH 21350_QPSK_1-0_Ant0_0mm

Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.905$ S/m; $\epsilon_r = 38.626$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 10.5 W/kg

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

Reference Value = 5.161 V/m; Power Drift = -0.14 dB

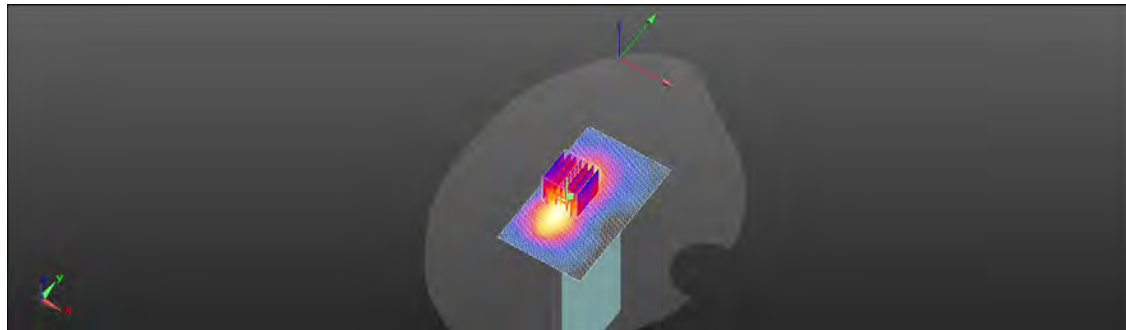
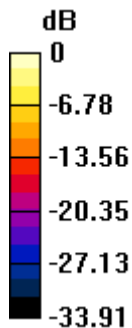
Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 5.39 W/kg; SAR(10 g) = 1.87 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 66.2%

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



0 dB = 11.1 W/kg = 10.45 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Head_Left Touch_CH 37850_QPSK_1-0_Ant0

Communication System: LTE; Frequency: 2580 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2580 \text{ MHz}$; $\sigma = 1.926 \text{ S/m}$; $\epsilon_r = 38.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.134 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.6840 V/m ; Power Drift = 0.14 dB

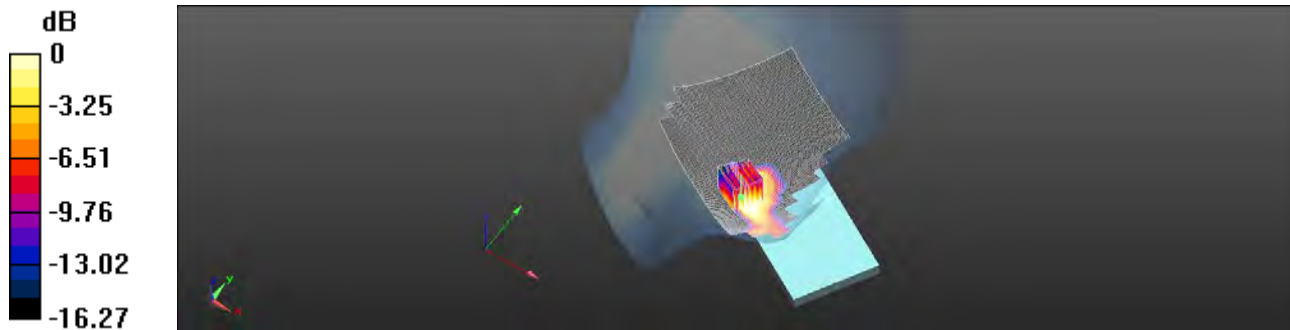
Peak SAR (extrapolated) = 0.0920 W/kg

SAR(1 g) = 0.055 W/kg ; SAR(10 g) = 0.030 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 81.9%

Maximum value of SAR (measured) = 0.0737 W/kg



$0 \text{ dB} = 0.0737 \text{ W/kg} = -11.32 \text{ dBW/kg}$

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Hotspot_Bottom Edge_CH 38000_QPSK_1-0_Ant0_0mm

Communication System: LTE; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 1.12 W/kg

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

Reference Value = 1.123 V/m; Power Drift = -0.11 dB

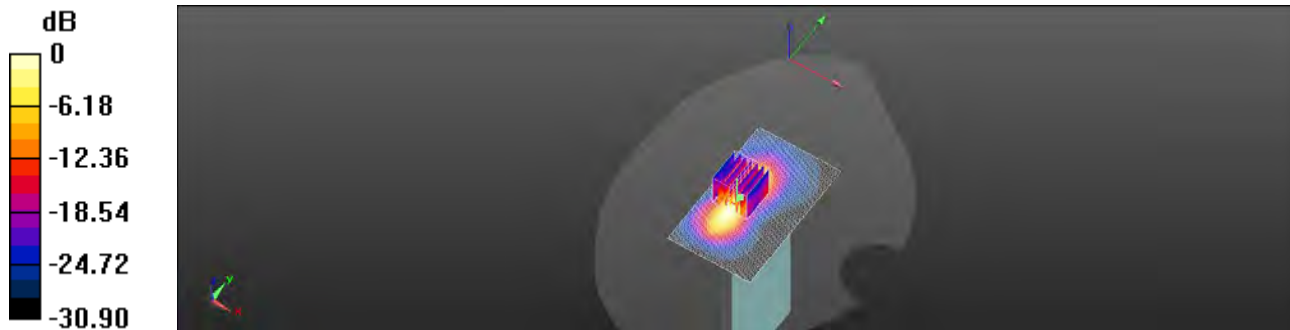
Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.265 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Body-Worn_Back Surface_CH 38000_QPSK_1-0_Ant0_15mm

Communication System: LTE; Frequency: 2595 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.223 W/kg

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

Reference Value = 2.180 V/m; Power Drift = -0.12 dB

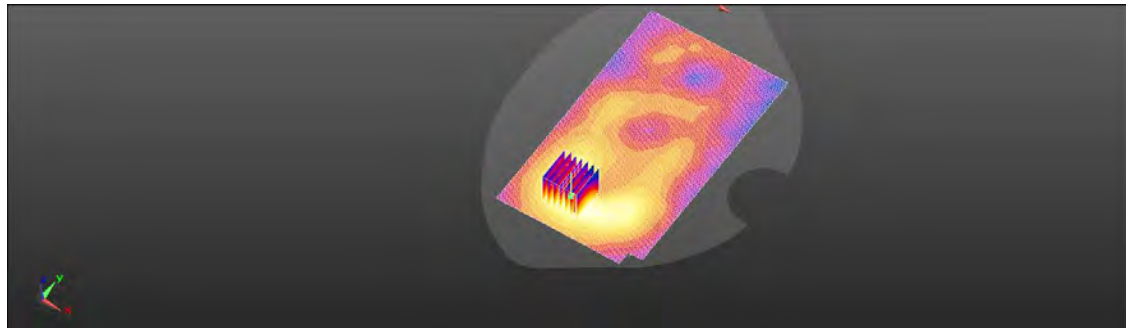
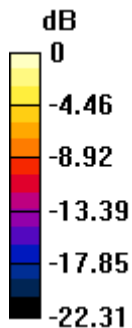
Peak SAR (extrapolated) = 0.289 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.085 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.221 W/kg



0 dB = 0.221 W/kg = -6.55 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Head_Left Touch_CH 40185_QPSK_1-0_Ant0

Communication System: LTE; Frequency: 2549.5 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2549.5 \text{ MHz}$; $\sigma = 1.893 \text{ S/m}$; $\epsilon_r = 38.636$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0708 W/kg

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

Reference Value = 3.074 V/m; Power Drift = -0.16 dB

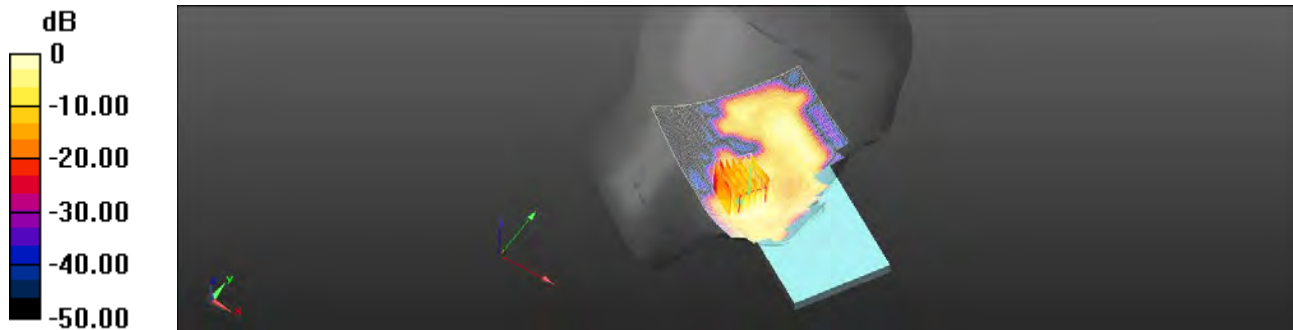
Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.148 W/kg



0 dB = 0.148 W/kg = -8.30 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Hotspot_Bottom Edge_CH 40620_QPSK_1-0_Ant0_10mm

Communication System: LTE; Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 38.608$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 1.15 W/kg

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

Reference Value = 3.781 V/m; Power Drift = 0.12 dB

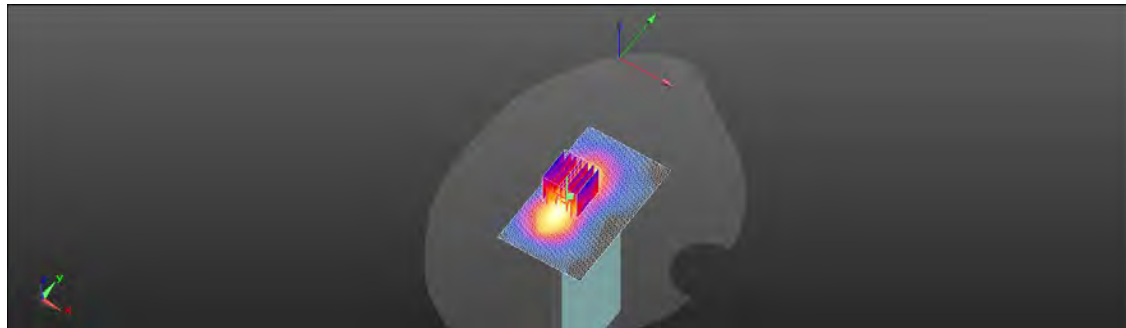
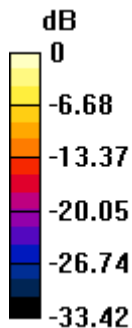
Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.586 W/kg; SAR(10 g) = 0.277 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Body-Worn_Back Surface_CH 40620_QPSK_1-0_Ant0_15mm

Communication System: LTE; Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 38.608$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.237 W/kg

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

Reference Value = 2.501 V/m; Power Drift = -0.18 dB

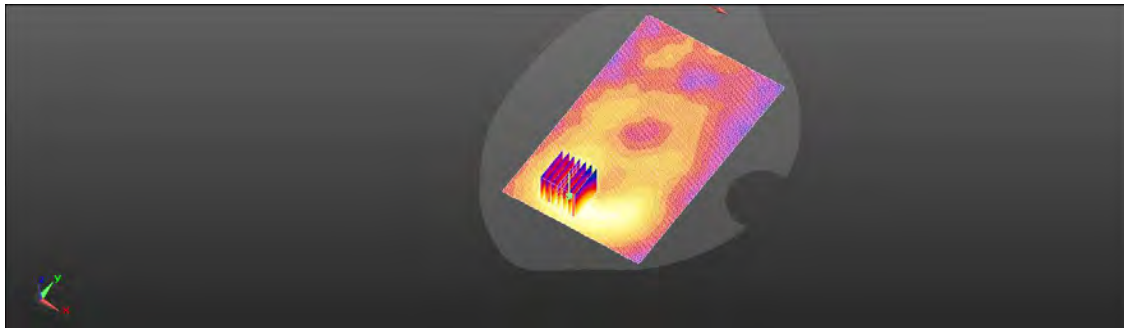
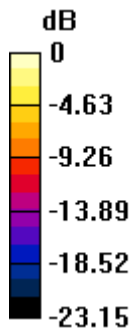
Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.088 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 0.226 W/kg



0 dB = 0.226 W/kg = -6.45 dBW/kg

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Report No. :ES/2022/30012

5G NR n7 (20MHz)_Head_Left Touch_CH 502000_BPSK_1-1_Ant0

Communication System: 5G NR; Frequency: 2510 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.85$ S/m; $\epsilon_r = 38.678$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.255 W/kg

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

Reference Value = 0.7770 V/m; Power Drift = 0.11 dB

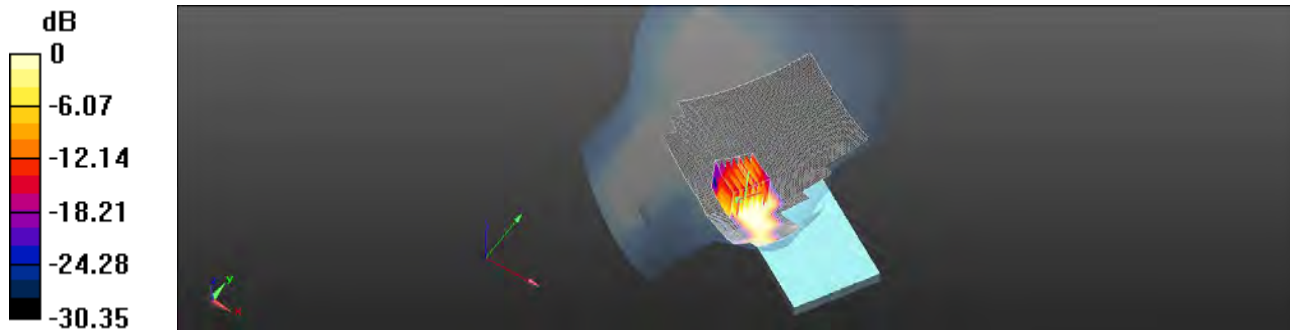
Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.061 W/kg

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 0.129 W/kg



0 dB = 0.129 W/kg = -8.77 dBW/kg

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Report No. :ES/2022/30012

5G NR n7 (20MHz)_Hotspot_Bottom Edge_CH 512000_BPSK_1-1_Ant0_10mm

Communication System: 5G NR; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.905$ S/m; $\epsilon_r = 38.626$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.923 W/kg

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

Reference Value = 16.26 V/m; Power Drift = 0.09 dB

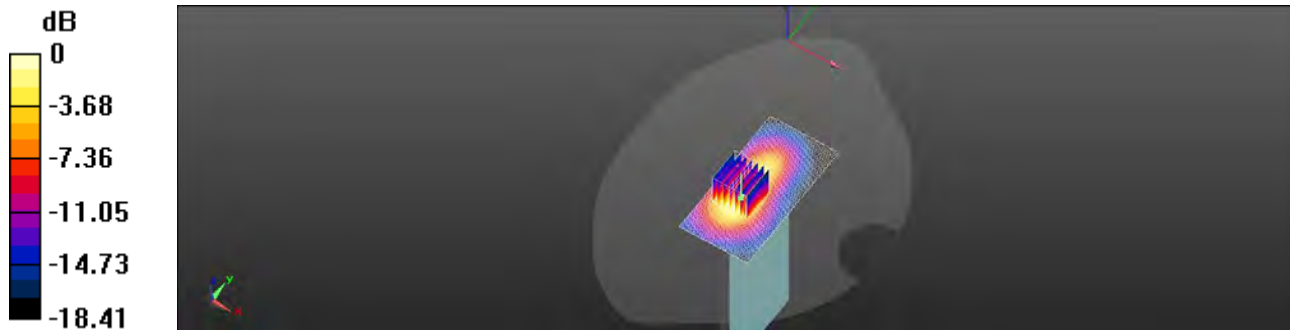
Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.329 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

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

Maximum value of SAR (measured) = 0.905 W/kg



0 dB = 0.905 W/kg = -0.43 dBW/kg

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Report No. :ES/2022/30012

5G NR n7 (20MHz)_Body-Worn_Back Surface_CH 512000_BPSK_1-1_Ant0_15mm

Communication System: 5G NR; Frequency: 2560 MHz; Duty cycle= 1:1
 Medium parameters used: $f = 2560$ MHz; $\sigma = 1.905$ S/m; $\epsilon_r = 38.626$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm
 Maximum value of SAR (interpolated) = 0.300 W/kg

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

Reference Value = 4.167 V/m; Power Drift = -0.06 dB

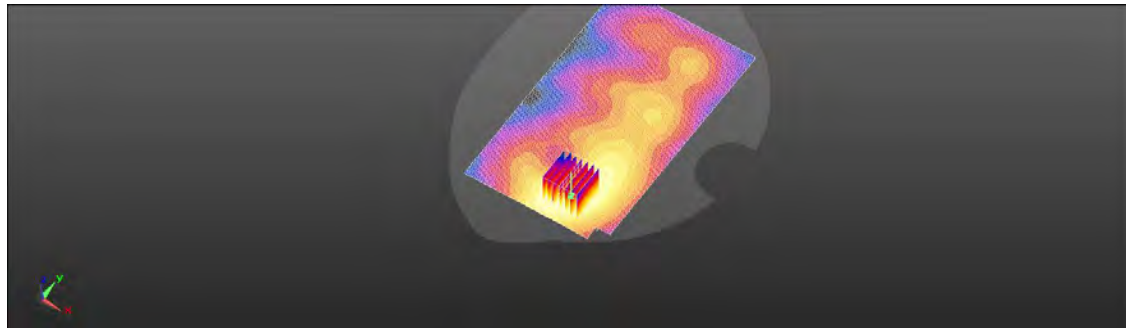
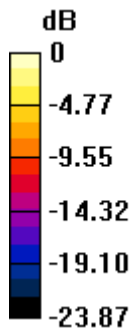
Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.111 W/kg

Smallest distance from peaks to all points 3 dB below = 13.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 0.281 W/kg



0 dB = 0.281 W/kg = -5.52 dBW/kg

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Report No. :ES/2022/30012
5G NR n7 (20MHz)_Extremity_Bottom Edge_CH 512000_BPSK_1-1_Ant 0_0mm

Communication System: 5G NR; Frequency: 2560 MHz; Duty cycle= 1:1

 Medium parameters used: $f = 2560$ MHz; $\sigma = 1.905$ S/m; $\epsilon_r = 38.626$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 14.9 W/kg

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

Reference Value = 38.33 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.6 W/kg

SAR(1 g) = 6.97 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 15.1 W/kg

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

Reference Value = 38.33 V/m; Power Drift = -0.01 dB

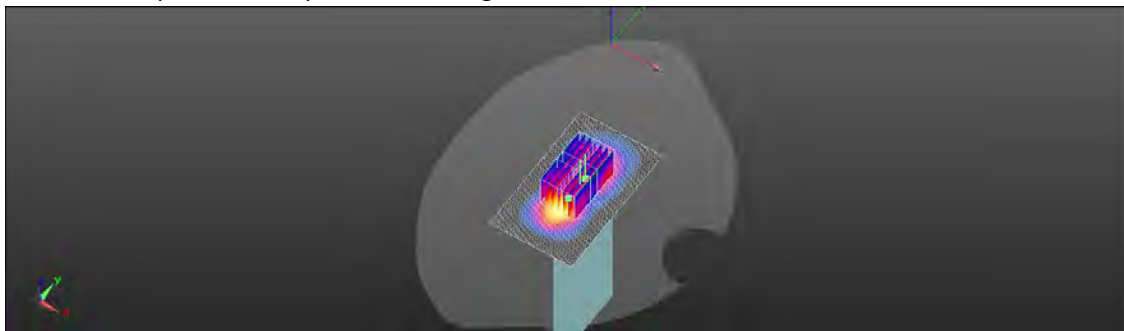
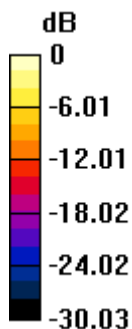
Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 6.09 W/kg; SAR(10 g) = 2.07 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 44.5%

Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Head_Left Touch_CH 519000_BPSK_1-1_Ant0

Communication System: 5G NR; Frequency: 2595 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2595 \text{ MHz}$; $\sigma = 1.943 \text{ S/m}$; $\epsilon_r = 38.606$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.239 W/kg

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

Reference Value = 0.6270 V/m; Power Drift = 0.18 dB

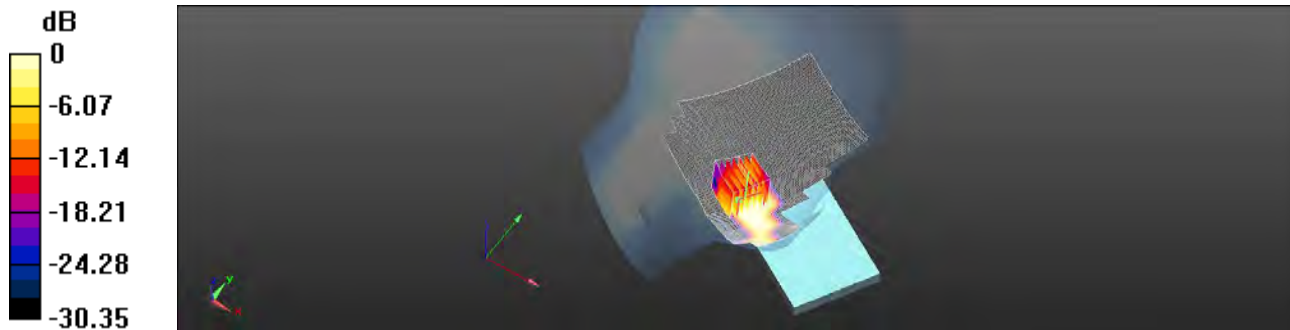
Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.042 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 0.109 W/kg



0 dB = 0.109 W/kg = -9.64 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Hotspot_Bottom Edge_CH 516000_BPSK_1-1_Ant0_10mm

Communication System: 5G NR; Frequency: 2580 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 38.621$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 17.98 V/m; Power Drift = -0.15 dB

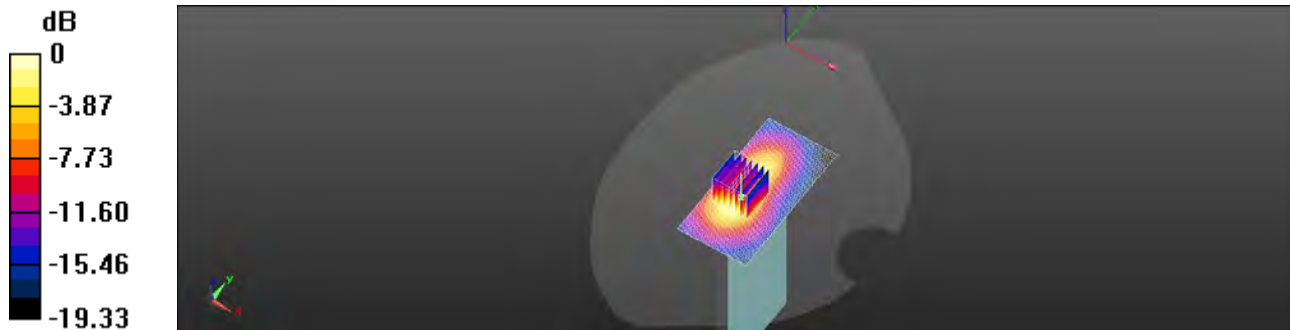
Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.805 W/kg; SAR(10 g) = 0.412 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 57%

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



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

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Report No. :ES/2022/30012
5G NR n38 (20MHz)_Body-Worn_Back Surface_CH 519000_BPSK_1-53_Ant0_15mm

Communication System: 5G NR; Frequency: 2595 MHz; Duty cycle= 1:1

 Medium parameters used: $f = 2595$ MHz; $\sigma = 1.943$ S/m; $\epsilon_r = 38.606$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.287 W/kg

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

Reference Value = 3.635 V/m; Power Drift = -0.14 dB

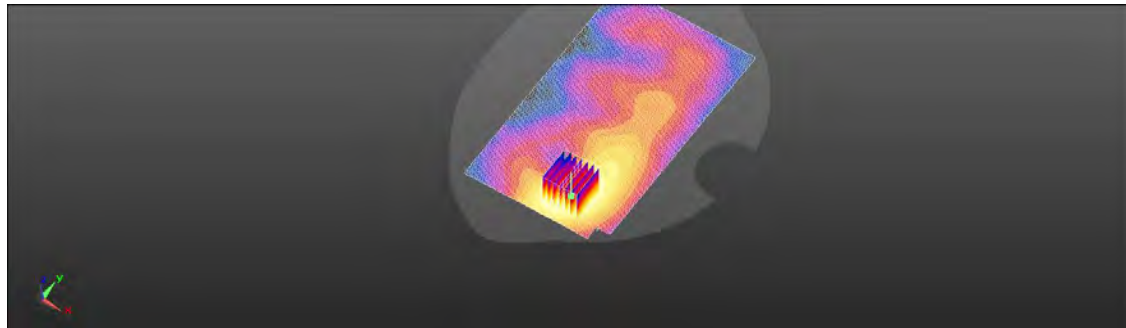
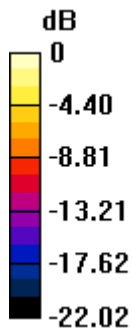
Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.108 W/kg

Smallest distance from peaks to all points 3 dB below = 13.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 0.274 W/kg



0 dB = 0.274 W/kg = -5.62 dBW/kg

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Report No. :ES/2022/30012
5G NR n38 (20MHz)_Extremity_Bottom Edge_CH 516000_BPSK_1-1_Ant0_0mm

Communication System: 5G NR; Frequency: 2580 MHz; Duty cycle= 1:1

 Medium parameters used: $f = 2580$ MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 38.621$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 15.4 W/kg

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

Reference Value = 33.68 V/m; Power Drift = 0.10 dB

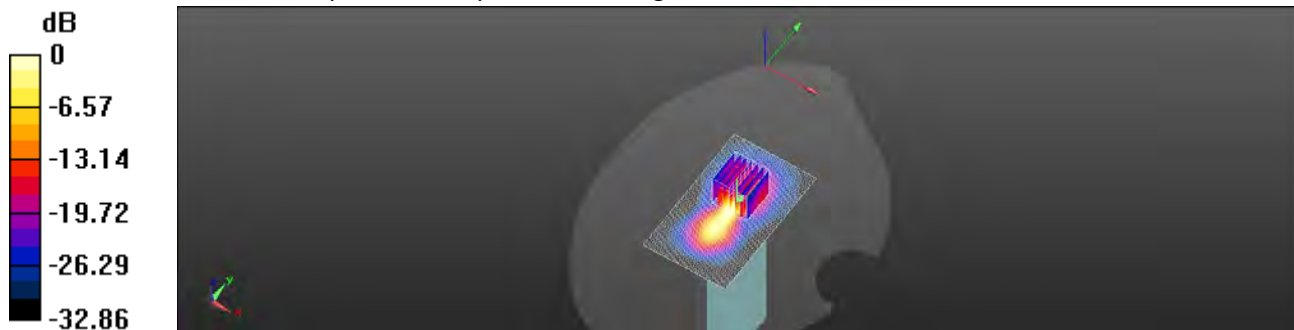
Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 7.03 W/kg; SAR(10 g) = 2.3 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg = 11.99 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Head_Left Touch_CH 509202_BPSK_1-1_Ant0

Communication System: 5G NR; Frequency: 2546.01 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2546.01$ MHz; $\sigma = 1.889$ S/m; $\epsilon_r = 38.657$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.213 W/kg

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

Reference Value = 0.7480 V/m; Power Drift = 0.15 dB

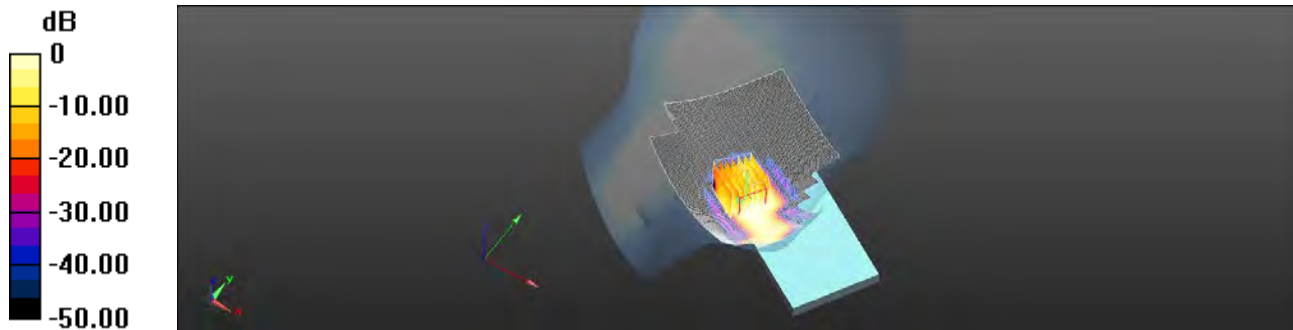
Peak SAR (extrapolated) = 0.154 W/kg

SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.045 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 59%

Maximum value of SAR (measured) = 0.114 W/kg



0 dB = 0.114 W/kg = -9.44 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Hotspot_Bottom Edge_CH 528000_BPSK_1-1_Ant0_10mm

Communication System: 5G NR; Frequency: 2640 MHz; Duty cycle= 1:1
 Medium parameters used: $f = 2640 \text{ MHz}$; $\sigma = 1.992 \text{ S/m}$; $\epsilon_r = 38.518$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Ambient temperature: 22.4°C ; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm
 Maximum value of SAR (interpolated) = 1.07 W/kg

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

Reference Value = 14.40 V/m; Power Drift = -0.17 dB

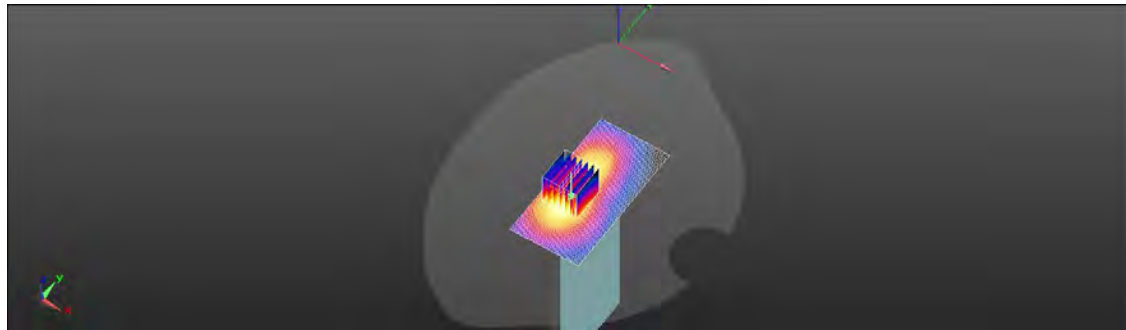
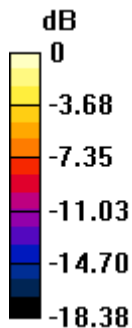
Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.691 W/kg; SAR(10 g) = 0.353 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.2%

Maximum value of SAR (measured) = 0.986 W/kg



0 dB = 0.986 W/kg = -0.06 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Body-Worn_Back Surface_CH 509202_BPSK_1-1_Ant0_15mm

Communication System: 5G NR; Frequency: 2546.01 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2546.01$ MHz; $\sigma = 1.889$ S/m; $\epsilon_r = 38.657$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.290 W/kg

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

Reference Value = 4.272 V/m; Power Drift = -0.14 dB

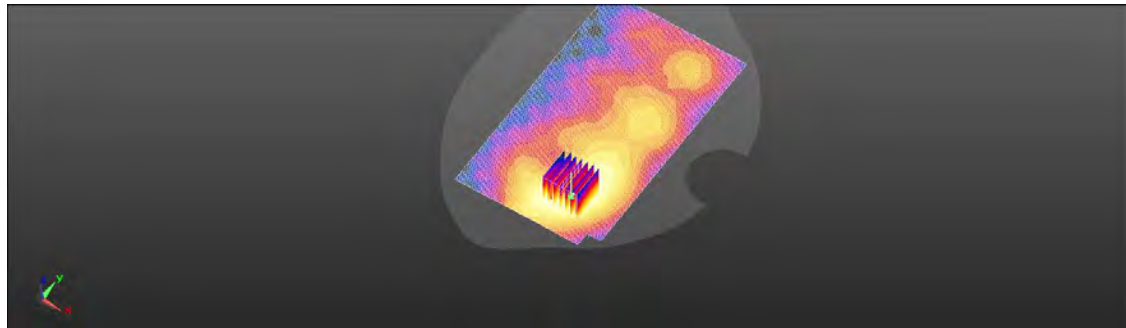
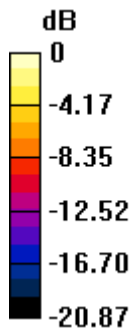
Peak SAR (extrapolated) = 0.333 W/kg

SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.107 W/kg

Smallest distance from peaks to all points 3 dB below = 13.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.2%

Maximum value of SAR (measured) = 0.261 W/kg



0 dB = 0.261 W/kg = -5.83 dBW/kg

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Report No. :ES/2022/30012

GSM 850_Head_Left Touch_CH 190_Ant 1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty cycle= 1:8.3

Medium parameters used: $f = 837$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 41.878$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.143 W/kg

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

Reference Value = 3.236 V/m; Power Drift = -0.07 dB

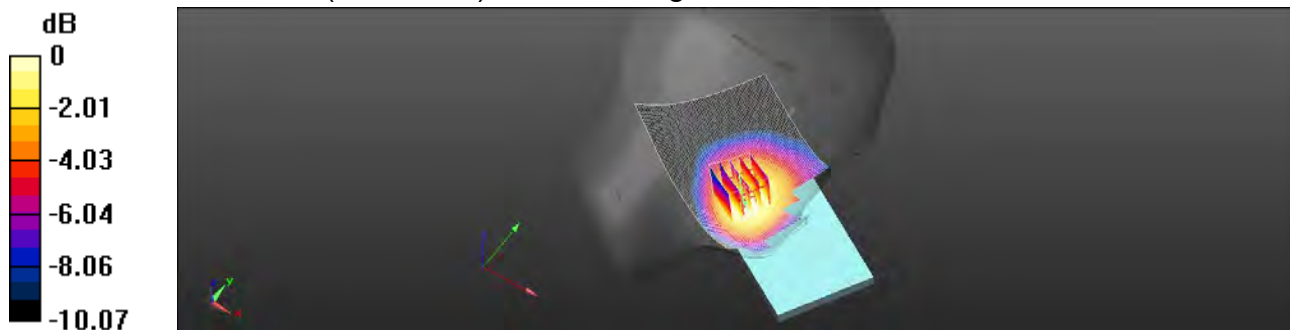
Peak SAR (extrapolated) = 0.154 W/kg

SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.095 W/kg

Smallest distance from peaks to all points 3 dB below = 21.7 mm

Ratio of SAR at M2 to SAR at M1 = 79.9%

Maximum value of SAR (measured) = 0.140 W/kg



0 dB = 0.140 W/kg = -8.53 dBW/kg

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Report No. :ES/2022/30012

GPRS 850_Hotspot_Back Surface_CH 190_Ant1_10mm

Communication System: GPRS 850 (1Dn2Up); Frequency: 836.6 MHz; Duty cycle= 1:4.1

Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 41.878$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.336 W/kg

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

Reference Value = 9.622 V/m; Power Drift = 0.05 dB

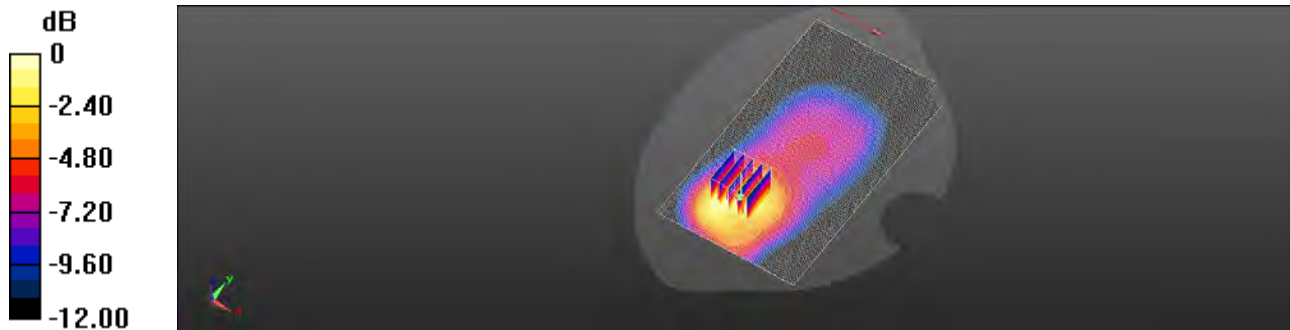
Peak SAR (extrapolated) = 0.410 W/kg

SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.170 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 67.5%

Maximum value of SAR (measured) = 0.337 W/kg



0 dB = 0.337 W/kg = -4.72 dBW/kg

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Report No. :ES/2022/30012

GSM 850_Body-Worn_Back Surface_CH 190_Ant1_15mm

Communication System: GSM; Frequency: 836.6 MHz; Duty cycle= 1:8.3

Medium parameters used: $f = 837$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 41.878$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.183 W/kg

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

Reference Value = 8.263 V/m; Power Drift = -0.16 dB

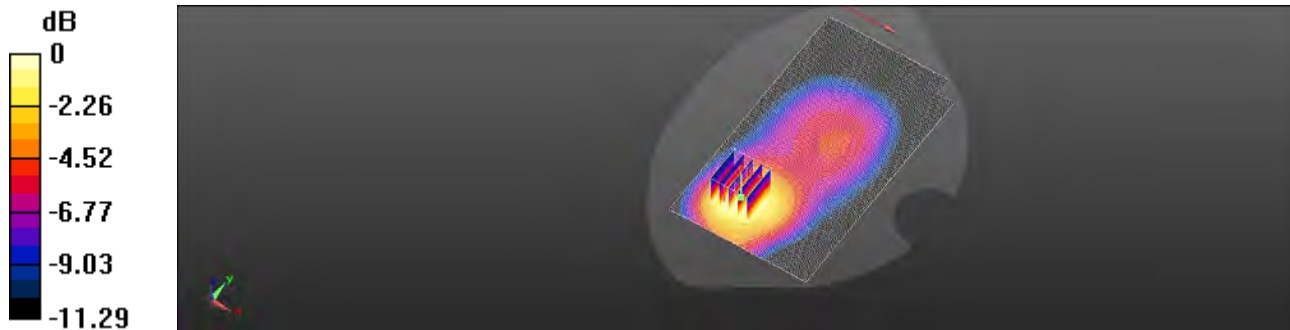
Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.097 W/kg

Smallest distance from peaks to all points 3 dB below = 20.9 mm

Ratio of SAR at M2 to SAR at M1 = 69%

Maximum value of SAR (measured) = 0.183 W/kg



0 dB = 0.183 W/kg = -7.37 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band V_Head_Left Touch _CH 4183_Ant 1

Communication System: WCDMA; Frequency: 836.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 41.944$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.181 W/kg

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

Reference Value = 4.034 V/m; Power Drift = 0.13 dB

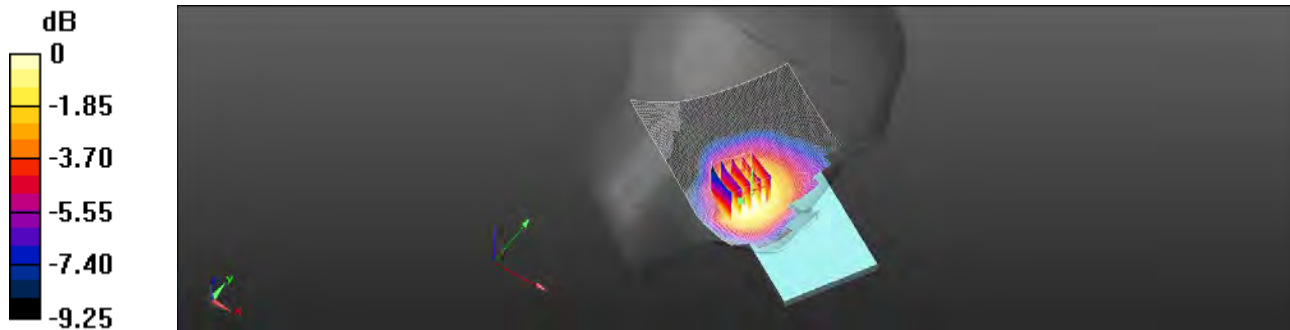
Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.154 W/kg; SAR(10 g) = 0.119 W/kg

Smallest distance from peaks to all points 3 dB below = 22.3 mm

Ratio of SAR at M2 to SAR at M1 = 84.1%

Maximum value of SAR (measured) = 0.172 W/kg



0 dB = 0.172 W/kg = -7.65 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band V_Hotspot_Back Surface_CH 4132_Ant1_10mm

Communication System: WCDMA; Frequency: 826.4 MHz; Duty cycle= 1:1

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.944$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.421 W/kg

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

Reference Value = 11.10 V/m; Power Drift = -0.19 dB

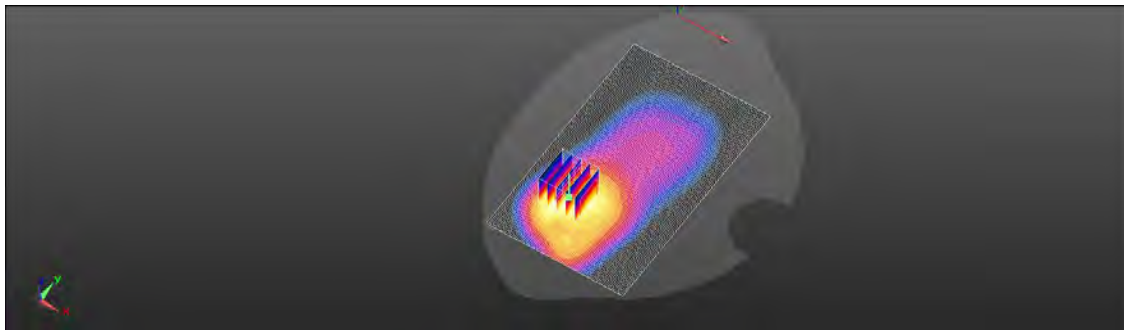
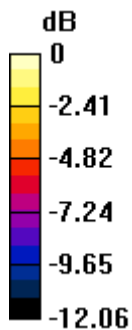
Peak SAR (extrapolated) = 0.524 W/kg

SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.218 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 65.9%

Maximum value of SAR (measured) = 0.438 W/kg



0 dB = 0.438 W/kg = -3.59 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band V_Body-Worn_Back Surface_CH 4183_Ant0_15mm

Communication System: WCDMA; Frequency: 836.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 41.878$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.384 W/kg

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

Reference Value = 9.749 V/m; Power Drift = 0.06 dB

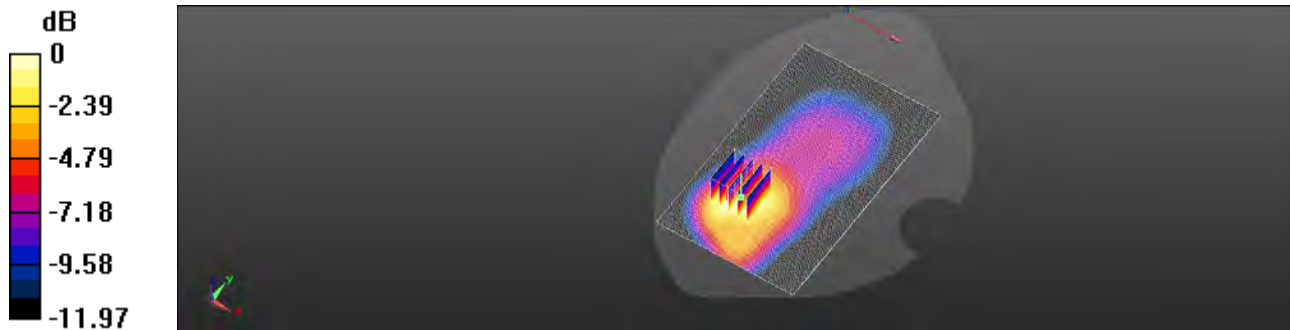
Peak SAR (extrapolated) = 0.484 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.202 W/kg

Smallest distance from peaks to all points 3 dB below = 16.5 mm

Ratio of SAR at M2 to SAR at M1 = 65.9%

Maximum value of SAR (measured) = 0.408 W/kg



0 dB = 0.408 W/kg = -3.90 dBW/kg

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Report No. :ES/2022/30012

LTE Band 5 (10MHz)_Head_Left Touch_CH 20525_QPSK_1-0_Ant 1

Communication System: LTE; Frequency: 836.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 836.5 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 41.894$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.165 W/kg

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

Reference Value = 3.598 V/m; Power Drift = 0.02 dB

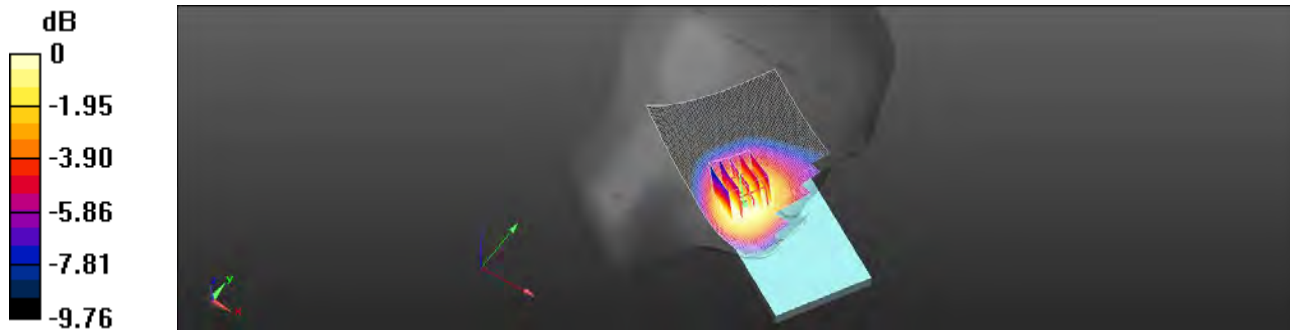
Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.112 W/kg

Smallest distance from peaks to all points 3 dB below = 24 mm

Ratio of SAR at M2 to SAR at M1 = 81.4%

Maximum value of SAR (measured) = 0.166 W/kg



0 dB = 0.166 W/kg = -7.81 dBW/kg

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Report No. :ES/2022/30012

LTE Band 5 (10MHz)_Hotspot_Back Surface_CH 20525_QPSK_1-0_Ant1_10mm

Communication System: LTE; Frequency: 836.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.894$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.355 W/kg

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

Reference Value = 8.730 V/m; Power Drift = 0.01 dB

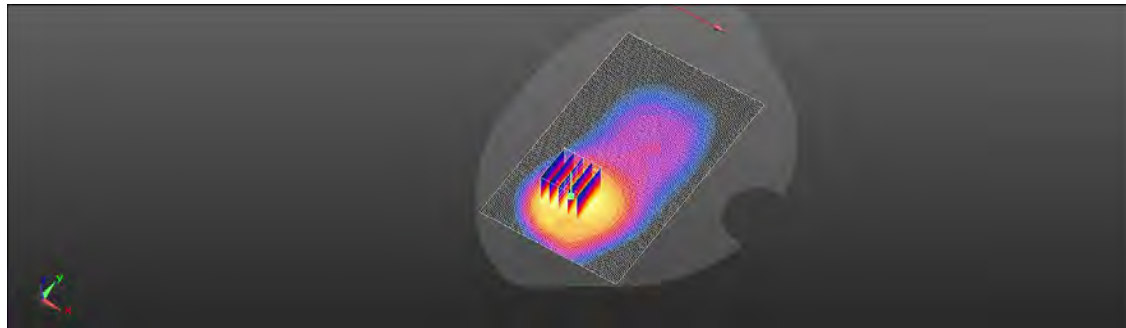
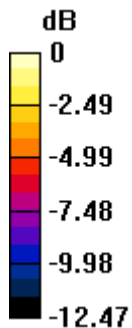
Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.171 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 0.354 W/kg



0 dB = 0.354 W/kg = -4.51 dBW/kg

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Report No. :ES/2022/30012

LTE Band 5 (10MHz)_Body-Worn_Back Surface_CH 20525_QPSK_1-0_Ant1_15mm

Communication System: LTE; Frequency: 836.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.894$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.213 W/kg

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

Reference Value = 8.005 V/m; Power Drift = 0.06 dB

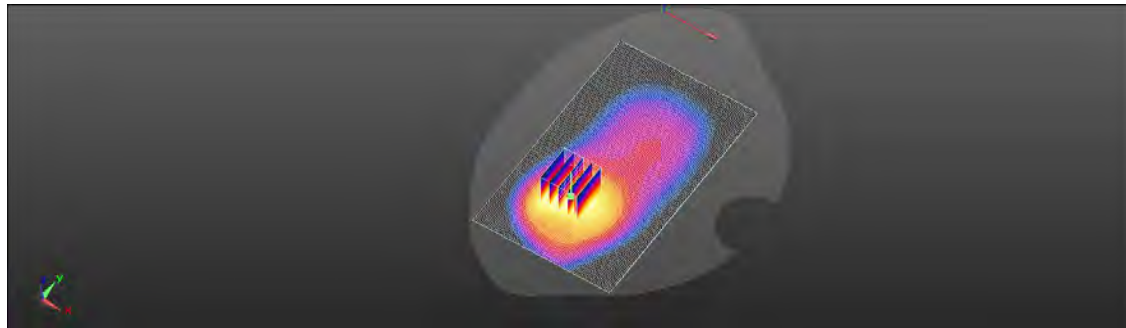
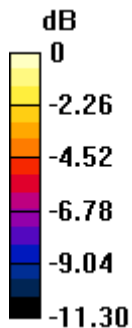
Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.110 W/kg

Smallest distance from peaks to all points 3 dB below = 19.3 mm

Ratio of SAR at M2 to SAR at M1 = 68.2%

Maximum value of SAR (measured) = 0.212 W/kg



0 dB = 0.212 W/kg = -6.73 dBW/kg

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Report No. :ES/2022/30012

GSM 1900_Head_Right Tilt_CH 512_0mm_Ant 2

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty cycle= 1:8.3

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.392 \text{ S/m}$; $\epsilon_r = 39.748$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

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

Reference Value = 22.55 V/m; Power Drift = 0.03 dB

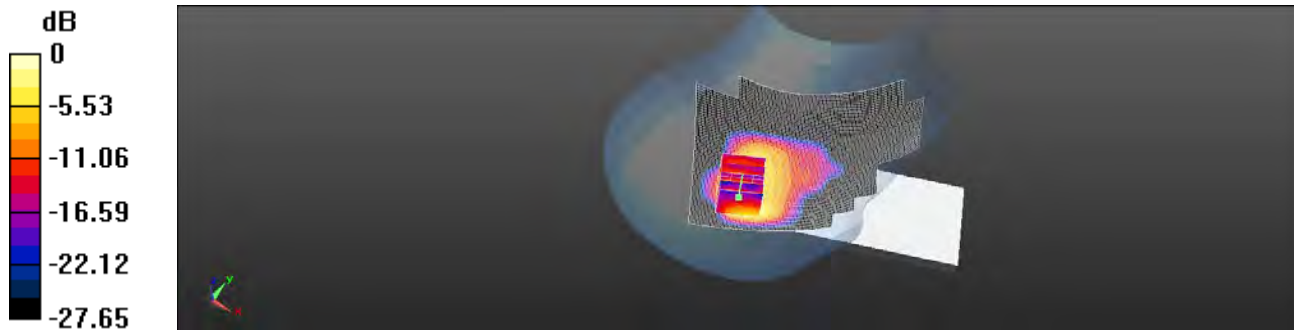
Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.415 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.6%

Maximum value of SAR (measured) = 1.66 W/kg



0 dB = 1.66 W/kg = 2.21 dBW/kg

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Report No. :ES/2022/30012

GPRS 1900_Hotspot_Top Edge_CH 661_Ant2_10mm

Communication System: GPRS 1900 (1Dn4Up); Frequency: 1880 MHz; Duty cycle= 1:2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.742$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.728 W/kg

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

Reference Value = 20.46 V/m; Power Drift = 0.01 dB

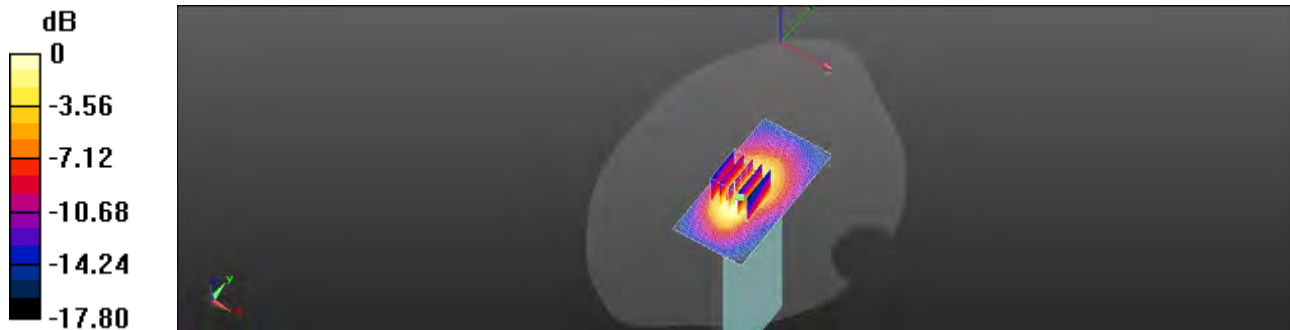
Peak SAR (extrapolated) = 0.920 W/kg

SAR(1 g) = 0.543 W/kg; SAR(10 g) = 0.304 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 59.9%

Maximum value of SAR (measured) = 0.741 W/kg



0 dB = 0.741 W/kg = -1.30 dBW/kg

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Report No. :ES/2022/30012

GSM 1900_Body-Worn_Back Surface_CH 661_Ant2_15mm

Communication System: GSM 1900; Frequency: 1880 MHz; Duty cycle= 1:8.3

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.742$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 6.635 V/m; Power Drift = -0.15 dB

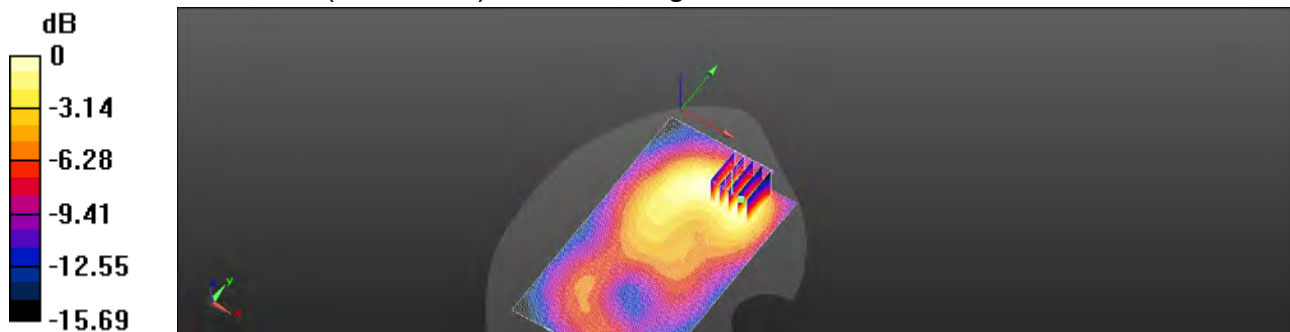
Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.166 W/kg; SAR(10 g) = 0.101 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 0.216 W/kg



0 dB = 0.216 W/kg = -6.66 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band II_Head_Right Tilt_CH 9538_0mm_Ant 2

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.395 \text{ S/m}$; $\epsilon_r = 39.726$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 22.59 V/m; Power Drift = 0.01 dB

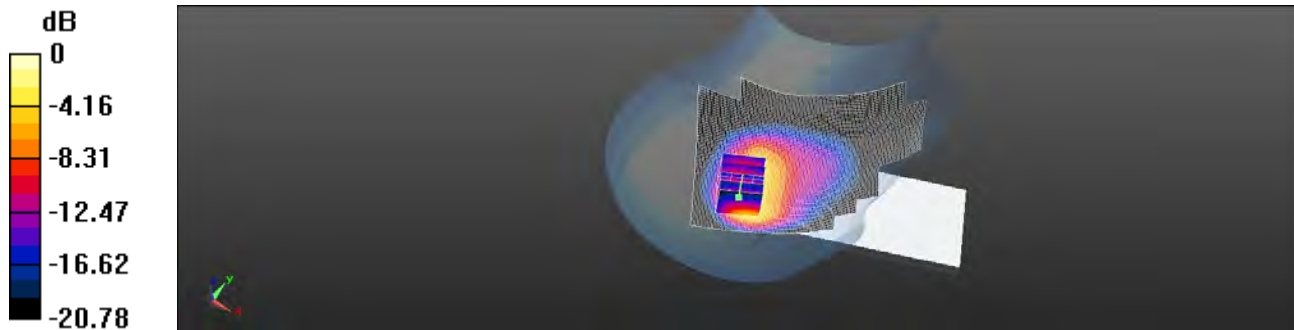
Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.798 W/kg; SAR(10 g) = 0.401 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.8%

Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.59 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band II_Hotspot_Top Edge_CH 9400_Ant2_10mm

Communication System: WCDMA; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.742$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.674 W/kg

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

Reference Value = 21.87 V/m; Power Drift = 0.15 dB

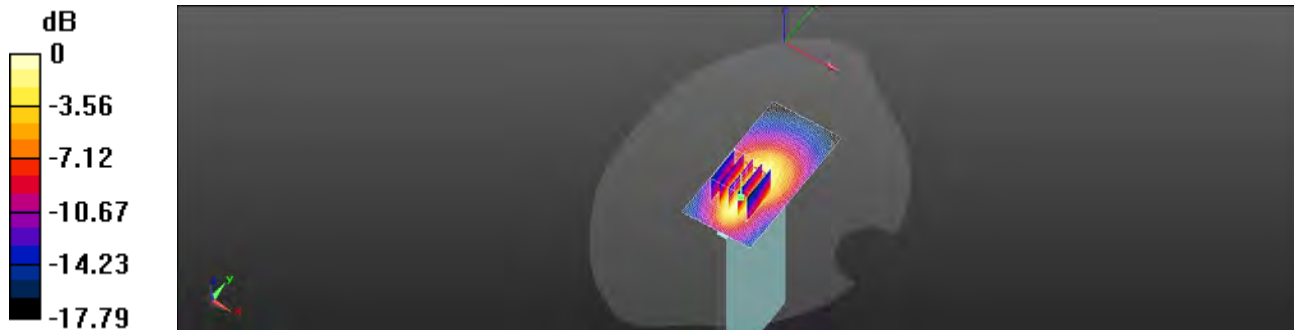
Peak SAR (extrapolated) = 0.853 W/kg

SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.263 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.657 W/kg



0 dB = 0.657 W/kg = -1.82 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band II_Body_Back Surface_CH 9400_Ant2_15mm

Communication System: WCDMA; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.742$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.732 W/kg

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

Reference Value = 9.922 V/m; Power Drift = 0.09 dB

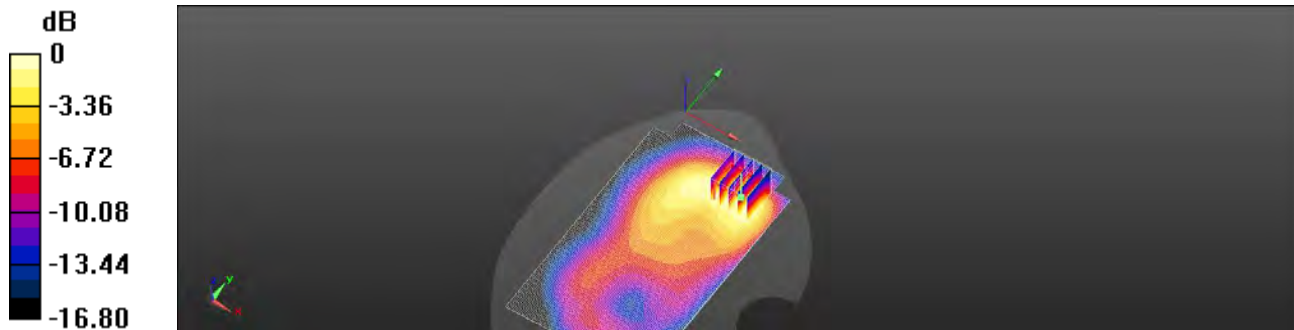
Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.168 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 0.672 W/kg



0 dB = 0.672 W/kg = -1.73 dBW/kg

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Report No. :ES/2022/30012

WCDMA Band II_Extremity_Top Edge_CH 9400_Ant 2_0mm

Communication System: WCDMA; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.742$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.61 W/kg

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

Reference Value = 11.02 V/m; Power Drift = -0.11 dB

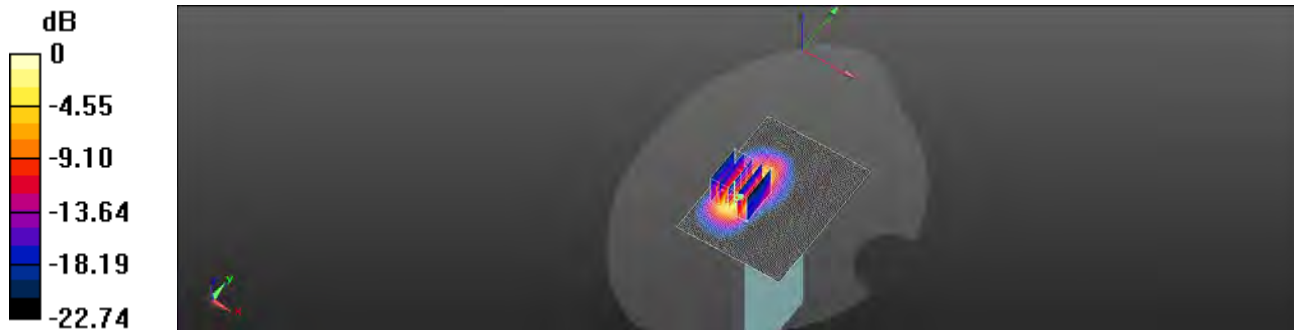
Peak SAR (extrapolated) = 4.3 W/kg

SAR(1 g) = 1.61 W/kg; SAR(10 g) = 0.615 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 46.2%

Maximum value of SAR (measured) = 3.17 W/kg



0 dB = 3.17 W/kg = 5.01 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Head_Left Touch_CH 37850_QPSK_1-0_Ant3_0mm

Communication System: LTE; Frequency: 2580 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2580 \text{ MHz}$; $\sigma = 1.927 \text{ S/m}$; $\epsilon_r = 38.613$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.422 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.544 V/m; Power Drift = 0.07 dB

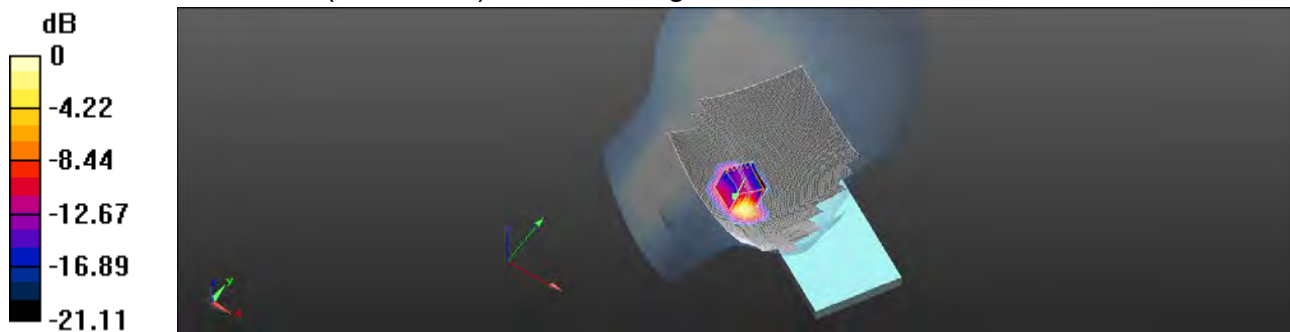
Peak SAR (extrapolated) = 0.729 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.103 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 73.9%

Maximum value of SAR (measured) = 0.441 W/kg



0 dB = 0.441 W/kg = -3.56 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Hotspot_Left Edge_CH 38150_QPSK_1-0_Ant3_10mm

Communication System: LTE; Frequency: 2610 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 38.564$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.947 W/kg

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

Reference Value = 3.112 V/m; Power Drift = 0.15 dB

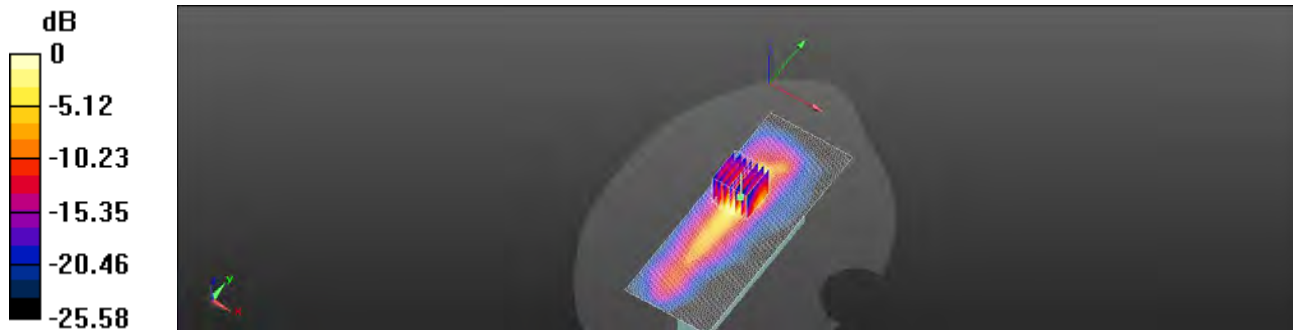
Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.207 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3 mm

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

Maximum value of SAR (measured) = 0.810 W/kg



0 dB = 0.810 W/kg = -0.92 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Body-Worn_Back Surface_CH 38150_QPSK_1-0_Ant3_15mm

Communication System: LTE; Frequency: 2610 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2610 \text{ MHz}$; $\sigma = 1.959 \text{ S/m}$; $\epsilon_r = 38.564$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.136 W/kg

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

Reference Value = 1.119 V/m; Power Drift = 0.13 dB

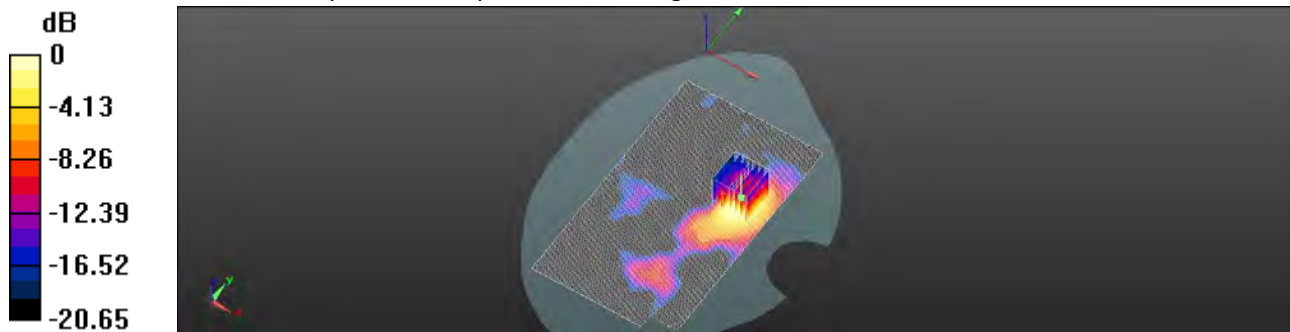
Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.043 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

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

Maximum value of SAR (measured) = 0.119 W/kg



0 dB = 0.119 W/kg = -9.24 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Head_Left Touch_CH 41490_QPSK_1-0_Ant 3

Communication System: LTE; Frequency: 2680 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.035$ S/m; $\epsilon_r = 38.468$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.798 W/kg

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

Reference Value = 2.129 V/m; Power Drift = -0.09 dB

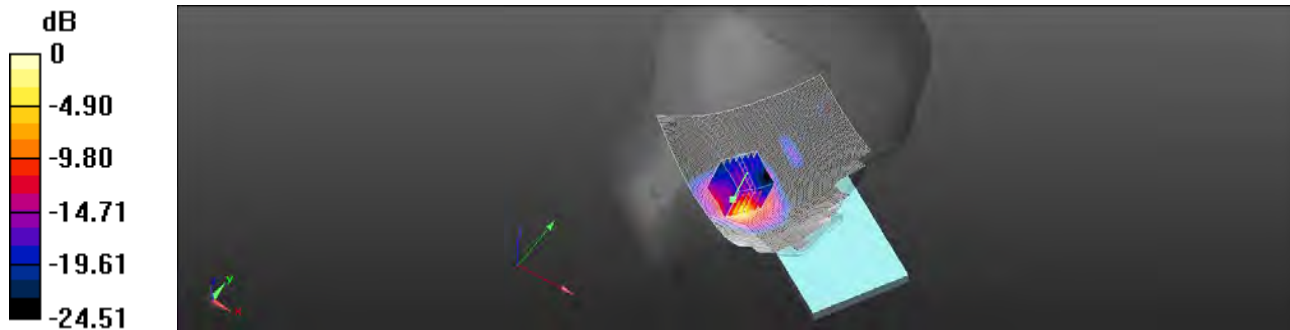
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.530 W/kg; SAR(10 g) = 0.197 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 49.1%

Maximum value of SAR (measured) = 0.885 W/kg



0 dB = 0.885 W/kg = -0.53 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Hotspot_Left Edge_CH 41055_QPSK_1-0_Ant3_10mm

Communication System: LTE; Frequency: 2636.5 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2636.5$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 38.526$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x161x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 3.419 V/m; Power Drift = -0.12 dB

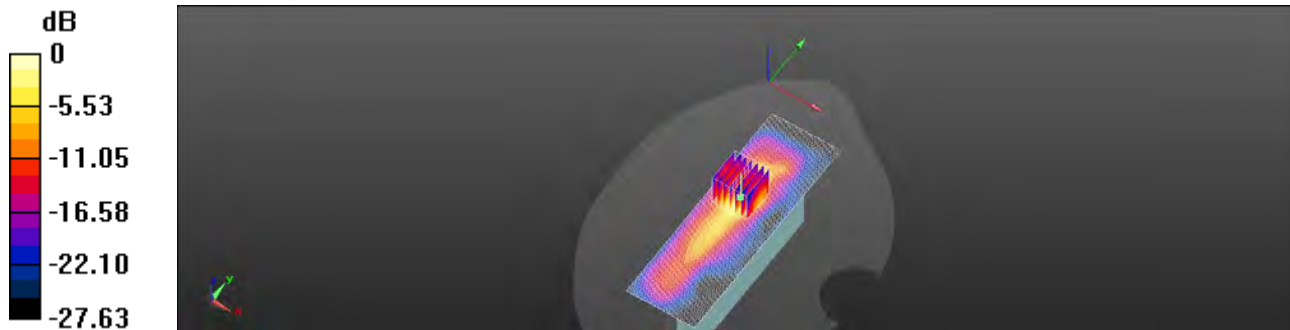
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.233 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

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

Maximum value of SAR (measured) = 0.935 W/kg



0 dB = 0.935 W/kg = -0.29 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Body-Worn_Back Surface_CH 41055_QPSK_1-0_Ant3_15mm

Communication System: LTE; Frequency: 2636.5 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2636.5$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 38.526$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.144 W/kg

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

Reference Value = 0.862 V/m; Power Drift = 0.07 dB

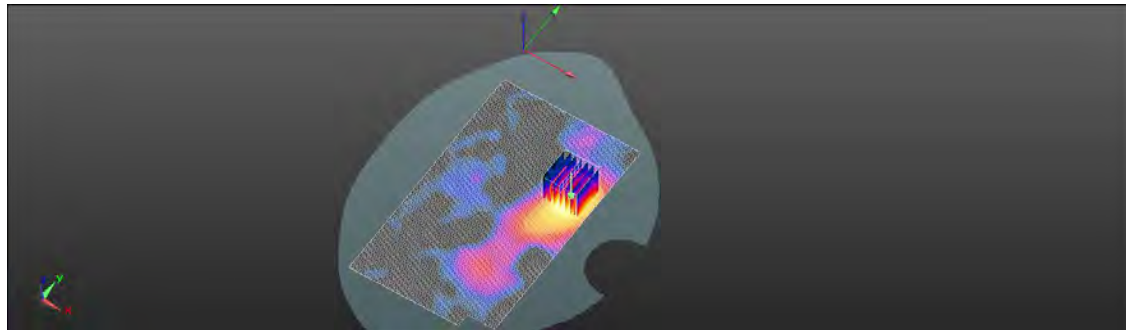
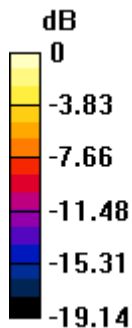
Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.043 W/kg

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.125 W/kg



0 dB = 0.125 W/kg = -9.03 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Head_Left Touch_CH 516000_BPSK_1-1_Ant 3

Communication System: 5G NR; Frequency: 2580 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.927$ S/m; $\epsilon_r = 38.613$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.956 W/kg

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

Reference Value = 2.331 V/m; Power Drift = 0.11 dB

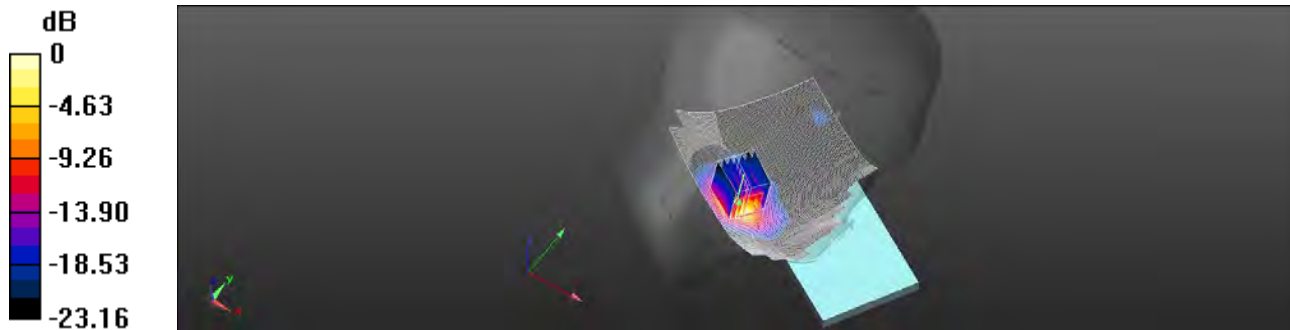
Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.234 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 40.6%

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



0 dB = 1.14 W/kg = 0.57 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Hotspot_Left Edge_CH 522000_BPSK_1-1_Ant 3_10mm

Communication System: 5G NR; Frequency: 2610 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2610 \text{ MHz}$; $\sigma = 1.959 \text{ S/m}$; $\epsilon_r = 38.564$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.825 W/kg

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

Reference Value = 4.111 V/m; Power Drift = -0.08 dB

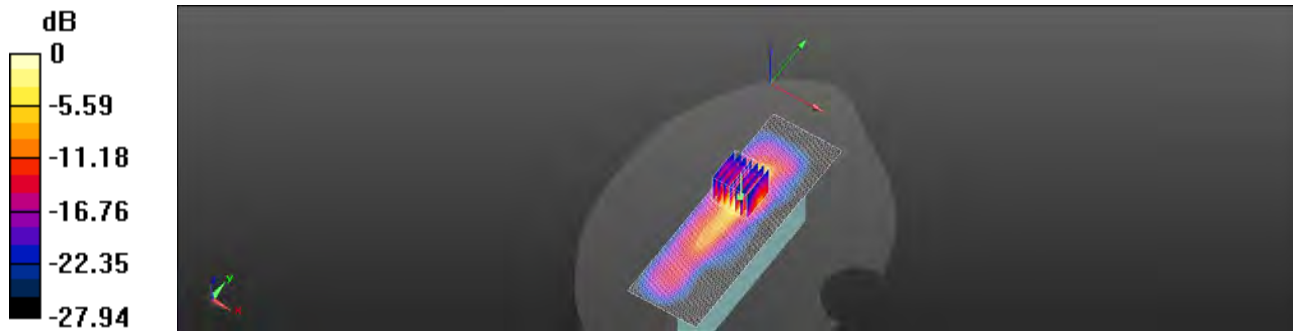
Peak SAR (extrapolated) = 0.997 W/kg

SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.263 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 45.9%

Maximum value of SAR (measured) = 0.708 W/kg



0 dB = 0.708 W/kg = -1.50 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Body-Worn_Back Surface_CH 522000_BPSK_1-1_Ant3_15mm

Communication System: 5G NR; Frequency: 2610 MHz; Duty cycle= 1:1
 Medium parameters used: $f = 2610$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 38.564$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm
 Maximum value of SAR (interpolated) = 0.197 W/kg

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

Reference Value = 1.012 V/m; Power Drift = 0.12 dB

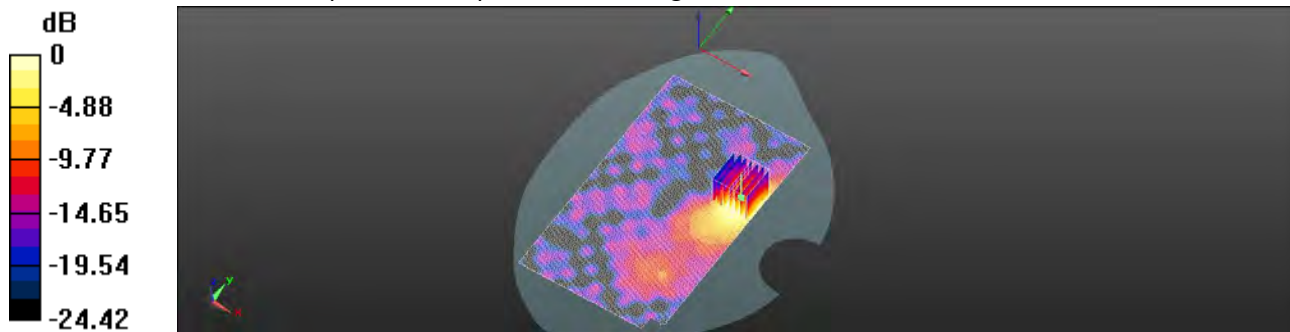
Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

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

Maximum value of SAR (measured) = 0.174 W/kg



0 dB = 0.174 W/kg = -7.59 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Head_Right Touch_CH 518598_BPSK_1-1_Ant 3

Communication System: 5G NR; Frequency: 2593 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.939$ S/m; $\epsilon_r = 38.604$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.83 W/kg

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

Reference Value = 2.177 V/m; Power Drift = -0.19 dB

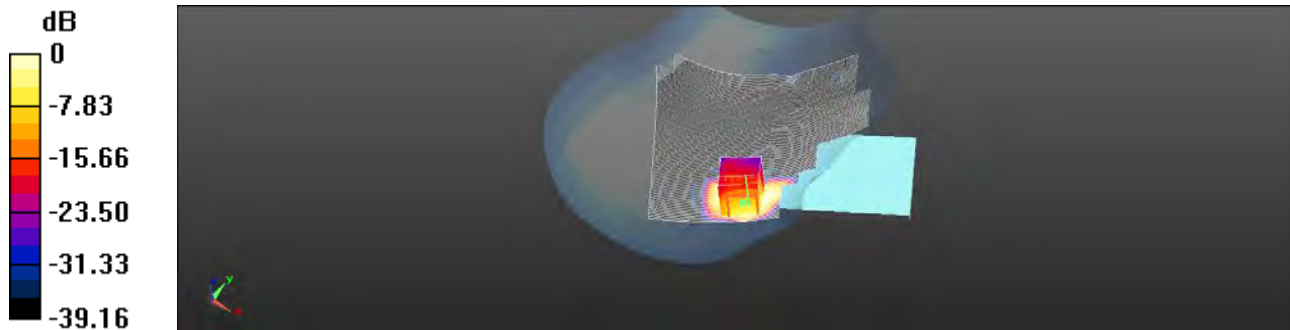
Peak SAR (extrapolated) = 0.970 W/kg

SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.172 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 45.6%

Maximum value of SAR (measured) = 0.675 W/kg



0 dB = 0.675 W/kg = -1.71 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Hotspot_Left Edge_CH 518598_BPSK_1-1_Ant 3_10mm

Communication System: 5G NR; Frequency: 2593 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.939$ S/m; $\epsilon_r = 38.604$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.443 W/kg

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

Reference Value = 3.632 V/m; Power Drift = 0.17 dB

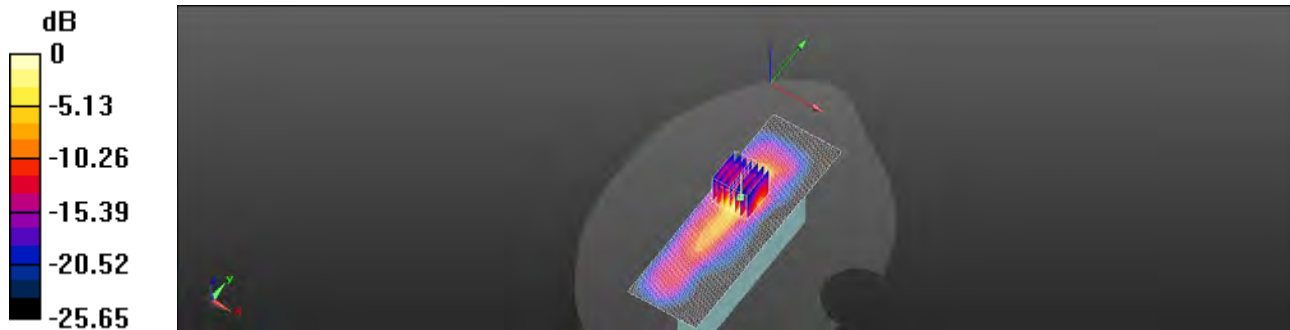
Peak SAR (extrapolated) = 0.560 W/kg

SAR(1 g) = 0.325 W/kg; SAR(10 g) = 0.176 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.9%

Maximum value of SAR (measured) = 0.401 W/kg



0 dB = 0.401 W/kg = -3.97 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Body_Worn_Back Surface_CH 528000_BPSK_1-1_Ant3_15mm

Communication System: 5G NR; Frequency: 2640 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2640$ MHz; $\sigma = 1.992$ S/m; $\epsilon_r = 38.51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 1.407 V/m; Power Drift = 0.10 dB

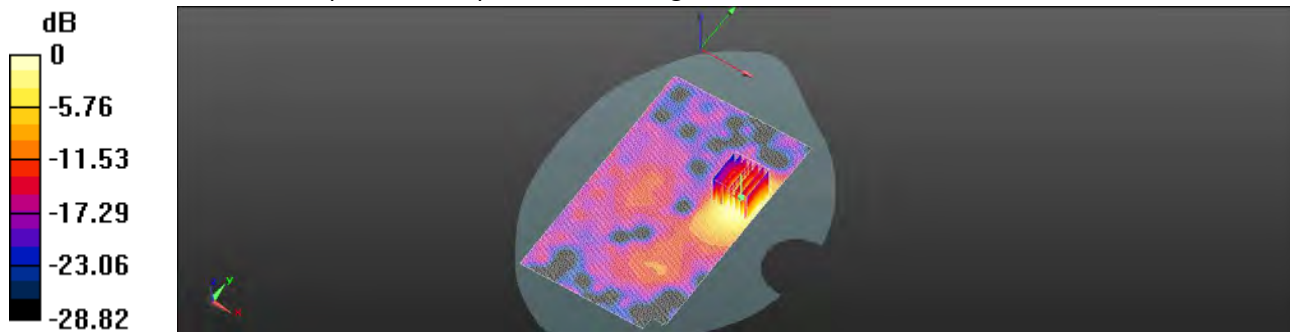
Peak SAR (extrapolated) = 0.311 W/kg

SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.084 W/kg

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 0.240 W/kg



0 dB = 0.240 W/kg = -6.20 dBW/kg

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Report No. :ES/2022/30012

LTE Band 7 (20MHz)_Head_Right Touch_CH 21350_QPSK_1-0_Ant4

Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.906$ S/m; $\epsilon_r = 38.63$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.957 W/kg

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

Reference Value = 7.759 V/m; Power Drift = 0.17 dB

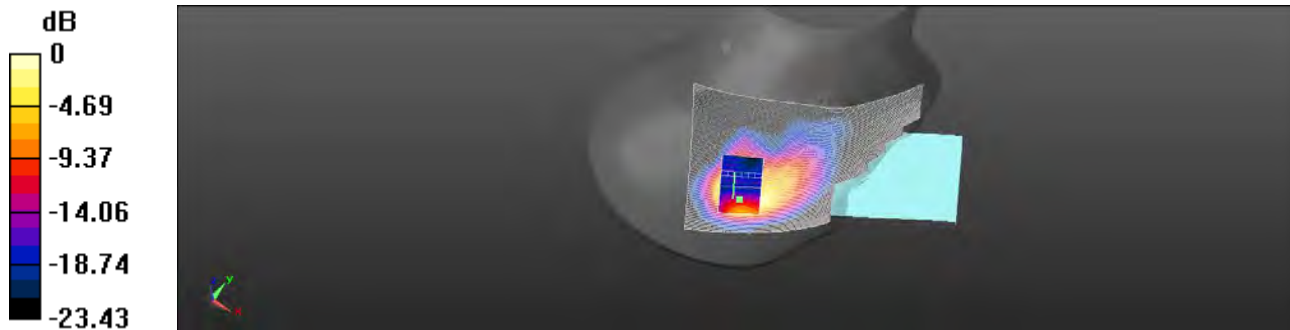
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.239 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 42.7%

Maximum value of SAR (measured) = 0.942 W/kg



0 dB = 0.942 W/kg = -0.27 dBW/kg

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Report No. :ES/2022/30012

LTE Band 7 (20MHz)_Hotspot_Left Edge_CH 21350_QPSK_1-0_Ant4_10mm

Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.906$ S/m; $\epsilon_r = 38.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.990 W/kg

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

Reference Value = 14.65 V/m; Power Drift = -0.11 dB

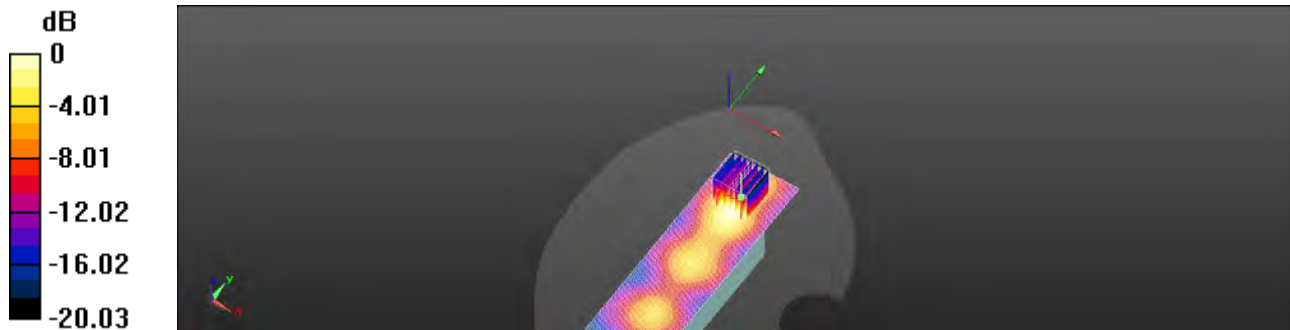
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.340 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.15 dBW/kg

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Report No. :ES/2022/30012

LTE Band 7 (20MHz)_Body-Worn_Back Surface_CH 21350_QPSK_1-0_Ant4_15mm

Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.906$ S/m; $\epsilon_r = 38.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.287 W/kg

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

Reference Value = 5.399 V/m; Power Drift = 0.07 dB

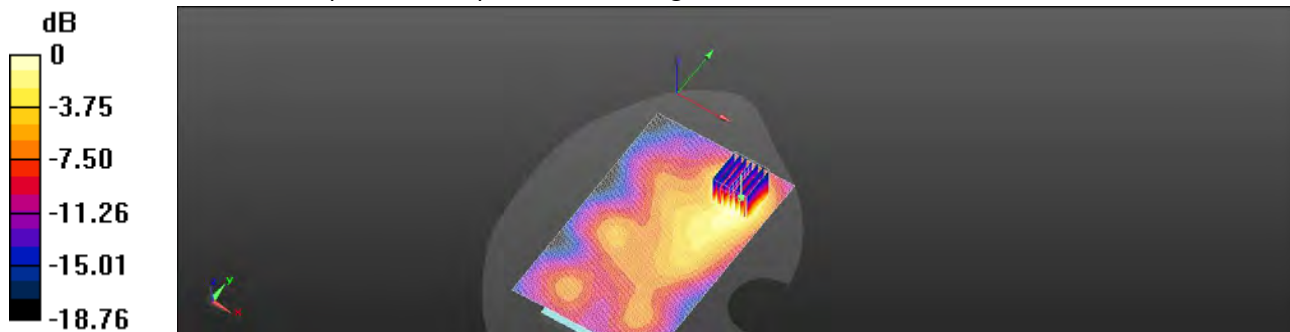
Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.107 W/kg

Smallest distance from peaks to all points 3 dB below = 13.9 mm

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

Maximum value of SAR (measured) = 0.284 W/kg



0 dB = 0.284 W/kg = -5.47 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Head_Right Touch_CH 38000_QPSK_1-0_Ant4

Communication System: LTE; Frequency: 2595 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2595 \text{ MHz}$; $\sigma = 1.943 \text{ S/m}$; $\epsilon_r = 38.576$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 7.855 V/m; Power Drift = -0.17 dB

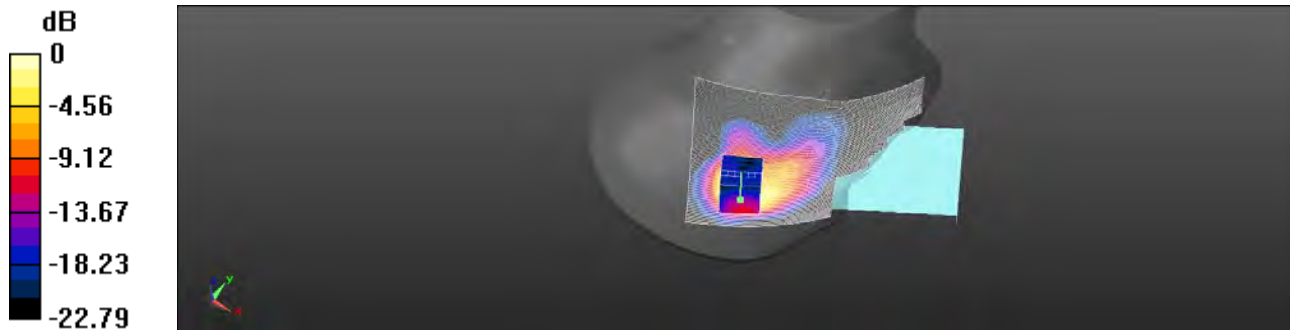
Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.710 W/kg; SAR(10 g) = 0.308 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 41.8%

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



0 dB = 1.18 W/kg = 0.73 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Hotspot_Left Edge_CH 37850_QPSK_1-0_Ant4_10mm

Communication System: LTE; Frequency: 2580 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 38.597$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.763 W/kg

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

Reference Value = 12.58 V/m; Power Drift = 0.08 dB

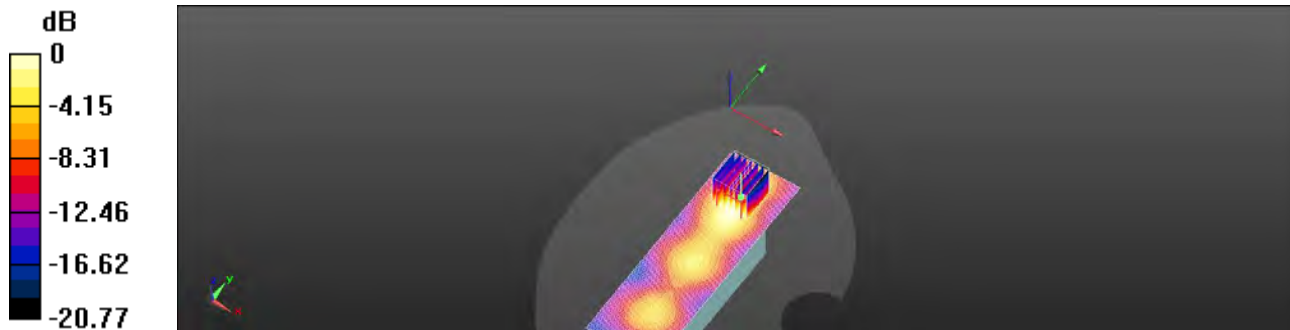
Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.269 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 0.801 W/kg



0 dB = 0.801 W/kg = -0.96 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Body-Worn_Back Surface_CH 38150_QPSK_1-0_Ant4_15mm

Communication System: LTE; Frequency: 2610 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 38.571$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.184 W/kg

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

Reference Value = 4.412 V/m; Power Drift = 0.12 dB

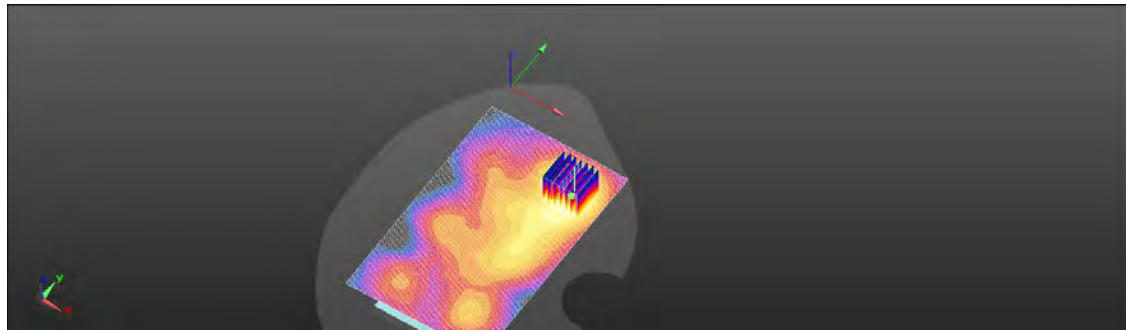
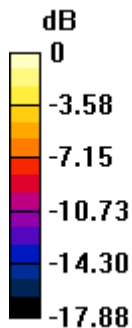
Peak SAR (extrapolated) = 0.241 W/kg

SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.072 W/kg

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 0.184 W/kg



0 dB = 0.184 W/kg = -7.35 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Head_Right Touch_CH 40185_QPSK_1-0_Ant4

Communication System: LTE; Frequency: 2549.5 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2549.5$ MHz; $\sigma = 1.893$ S/m; $\epsilon_r = 38.631$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x181x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

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

Reference Value = 7.627 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.297 W/kg

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 41.8%

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

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

Reference Value = 7.627 V/m; Power Drift = 0.11 dB

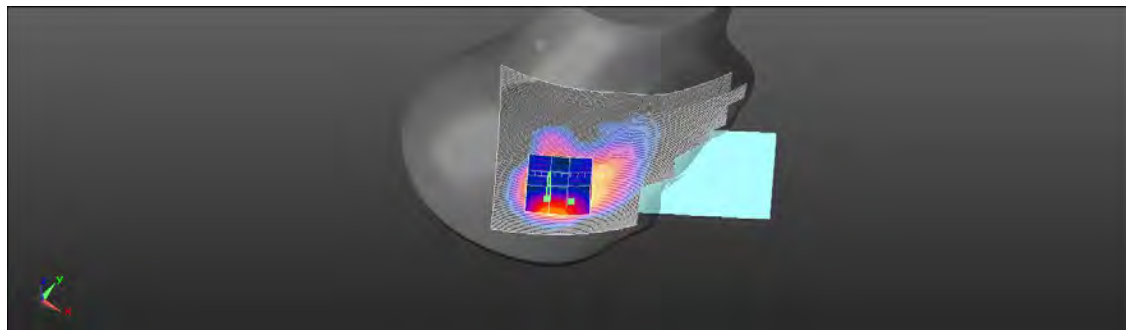
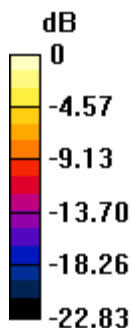
Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.615 W/kg; SAR(10 g) = 0.266 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 40.4%

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Hotspot_Left Edge_CH 41055_QPSK_1-0_Ant4_10mm

Communication System: LTE; Frequency: 2636.5 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2636.5$ MHz; $\sigma = 1.988$ S/m; $\epsilon_r = 38.55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.852 W/kg

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

Reference Value = 6.919 V/m; Power Drift = -0.12 dB

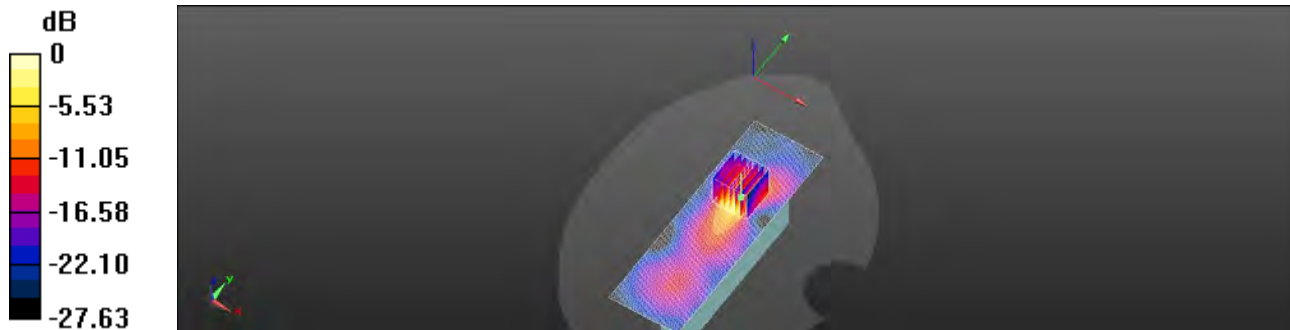
Peak SAR (extrapolated) = 0.951 W/kg

SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.179 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

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

Maximum value of SAR (measured) = 0.717 W/kg



0 dB = 0.717 W/kg = -1.44 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Body-Worn_Back Surface_CH 41055_QPSK_1-0_Ant4_15mm

Communication System: LTE; Frequency: 2636.5 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2636.5$ MHz; $\sigma = 1.988$ S/m; $\epsilon_r = 38.55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.175 W/kg

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

Reference Value = 4.263 V/m; Power Drift = -0.08 dB

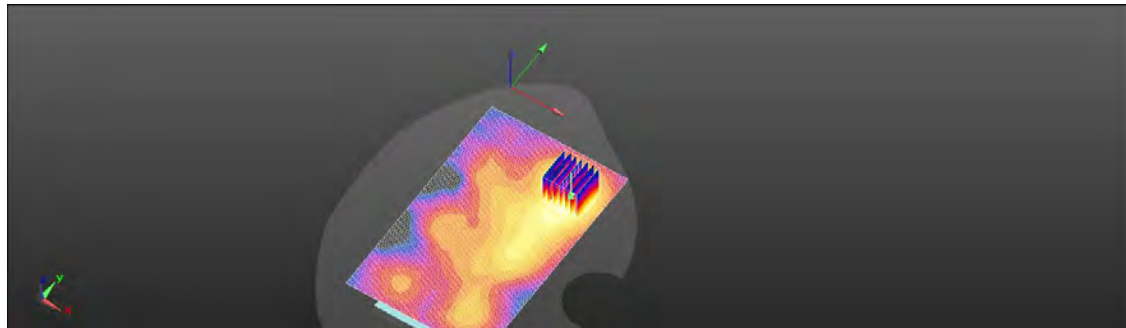
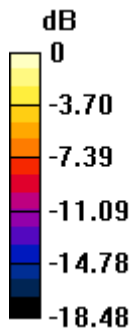
Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.066 W/kg

Smallest distance from peaks to all points 3 dB below = 13.9 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 0.169 W/kg



0 dB = 0.169 W/kg = -7.72 dBW/kg

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Report No. :ES/2022/30012

5G NR n7 (20MHz)_Head_Right Touch_CH 512000_BPSK_1-1_Ant4

Communication System: 5G_NR; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.906$ S/m; $\epsilon_r = 38.63$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

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

Reference Value = 7.708 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.335 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 41.9%

Maximum value of SAR (measured) = 1.37 W/kg

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

Reference Value = 7.708 V/m; Power Drift = 0.09 dB

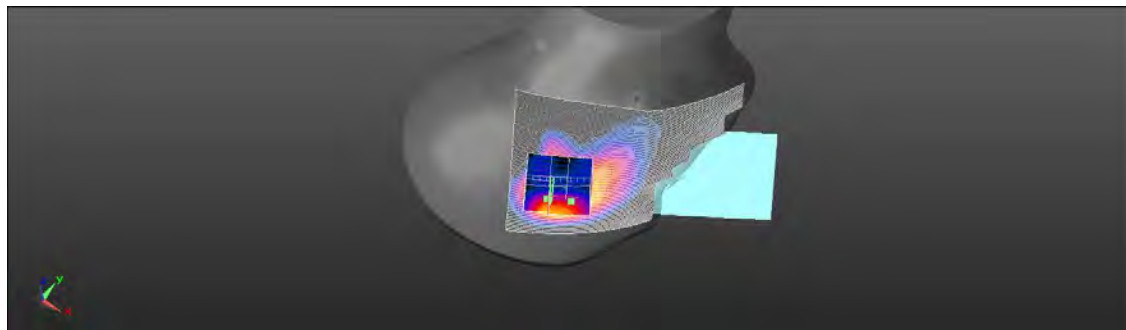
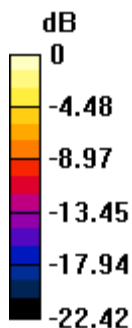
Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.299 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.8%

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.08 dBW/kg

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Report No. :ES/2022/30012

5G NR n7 (20MHz)_Hotspot_ Left Edge_CH 507000_BPSK_1-1_Ant4_10mm

Communication System: 5G NR; Frequency: 2535 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 1.851 \text{ S/m}$; $\epsilon_r = 38.701$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x161x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 15.77 V/m; Power Drift = -0.04 dB

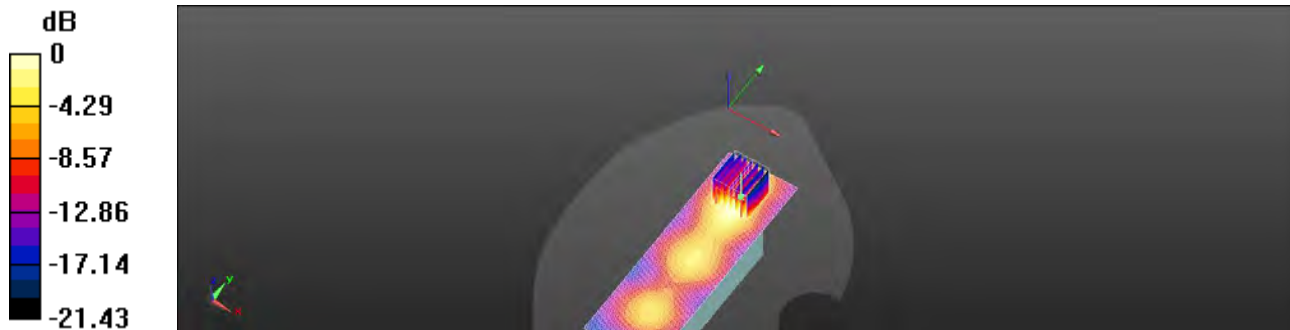
Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.375 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

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

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



0 dB = 1.14 W/kg = 0.57 dBW/kg

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Report No. :ES/2022/30012

5G NR n7 (20MHz), Body-Worn_Back Surface_CH 512000_BPSK_1-1_Ant4_15mm

Communication System: 5G_NR; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.906$ S/m; $\epsilon_r = 38.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 6.336 V/m; Power Drift = 0.01 dB

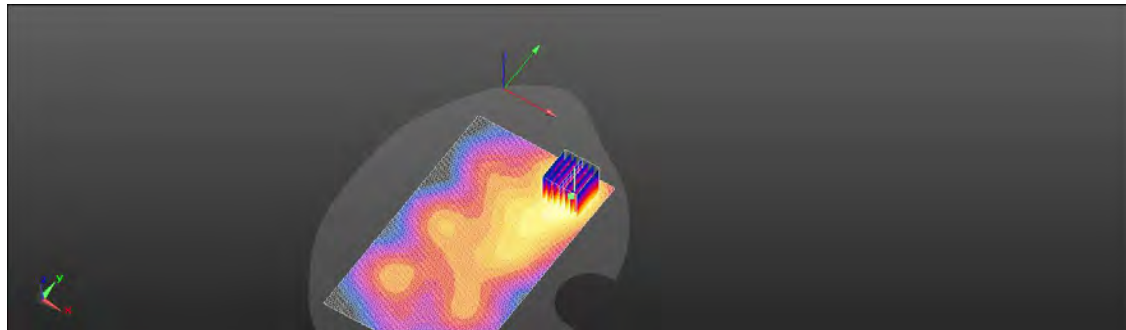
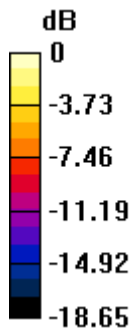
Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.143 W/kg

Smallest distance from peaks to all points 3 dB below = 13 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 0.369 W/kg



0 dB = 0.369 W/kg = -4.33 dBW/kg

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Report No. :ES/2022/30012
5G NR n38 (20MHz)_Head_Right Touch_CH 522000_BPSK_1-1_Ant4

Communication System: 5G_NR; Frequency: 2610 MHz; Duty cycle= 1:1

 Medium parameters used: $f = 2610$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 38.571$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.51 W/kg

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

Reference Value = 8.352 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.869 W/kg; SAR(10 g) = 0.371 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 39.5%

Maximum value of SAR (measured) = 1.49 W/kg

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

Reference Value = 8.352 V/m; Power Drift = 0.03 dB

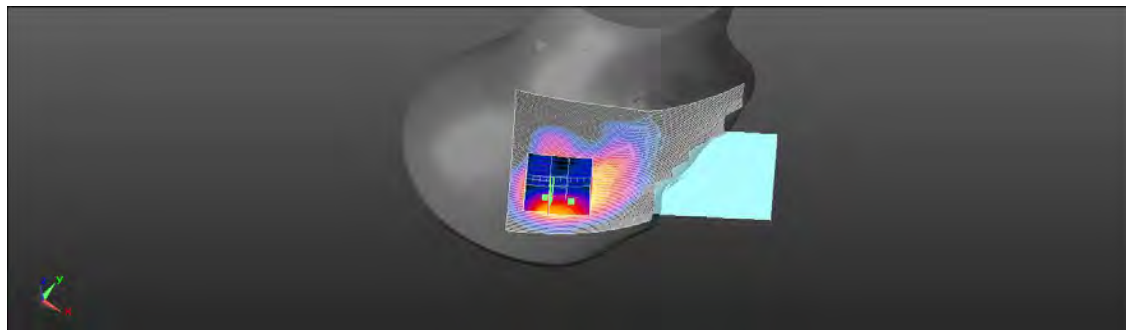
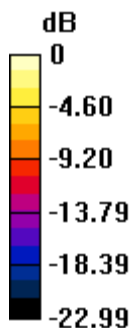
Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.775 W/kg; SAR(10 g) = 0.332 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 42.9%

Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.41 W/kg = 1.50 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Hotspot_Left Edge_CH 522000_BPSK_1-1_Ant4_10mm

Communication System: 5G_NR; Frequency: 2610 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 38.571$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): 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 = 13.10 V/m; Power Drift = 0.16 dB

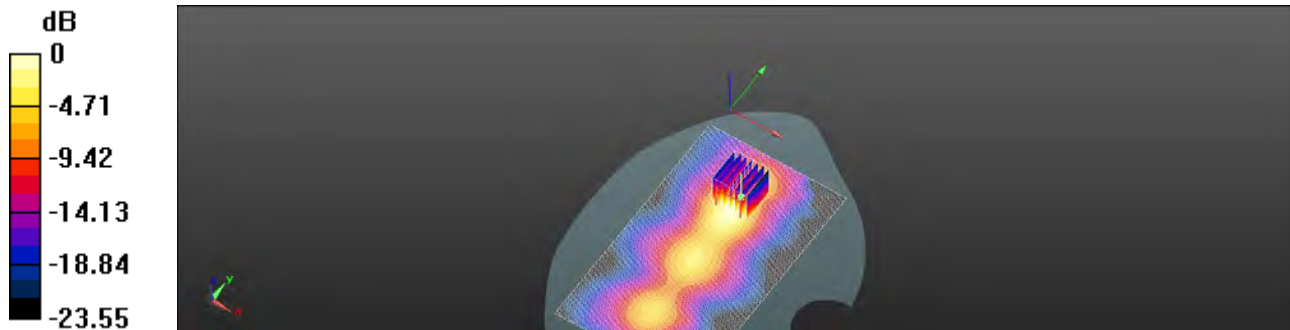
Peak SAR (extrapolated) = 0.801 W/kg

SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.175 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 47.3%

Maximum value of SAR (measured) = 0.576 W/kg



0 dB = 0.576 W/kg = -2.38 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Body-Worn_Back Surface_CH 519000_BPSK_1-1_Ant4_15mm

Communication System: 5G NR; Frequency: 2595 MHz; Duty cycle= 1:1
 Medium parameters used: $f = 2595$ MHz; $\sigma = 1.943$ S/m; $\epsilon_r = 38.576$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm
 Maximum value of SAR (interpolated) = 0.393 W/kg

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

Reference Value = 6.554 V/m; Power Drift = -0.12 dB

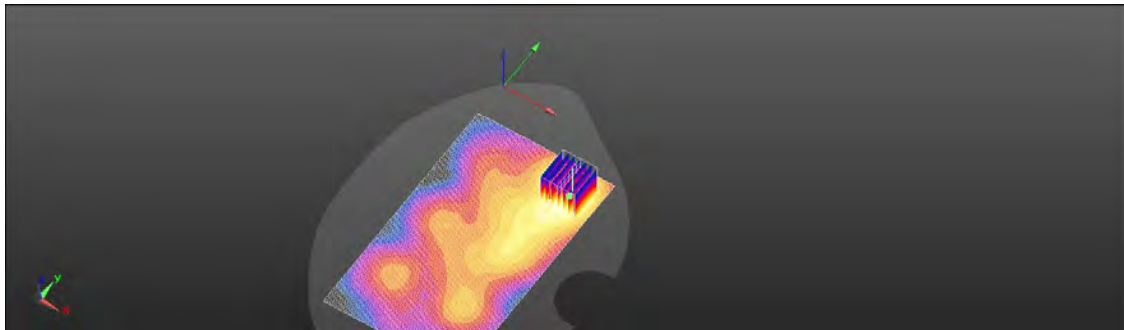
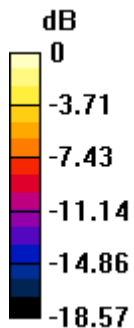
Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.159 W/kg

Smallest distance from peaks to all points 3 dB below = 13.4 mm

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

Maximum value of SAR (measured) = 0.388 W/kg



0 dB = 0.388 W/kg = -4.02 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Head_Right Touch_CH 518598_BPSK_1-1_Ant4

Communication System: 5G_NR; Frequency: 2592.99 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.931$ S/m; $\epsilon_r = 38.584$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 8.587 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 0.918 W/kg; SAR(10 g) = 0.391 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 39.3%

Maximum value of SAR (measured) = 1.54 W/kg

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

Reference Value = 8.587 V/m; Power Drift = 0.10 dB

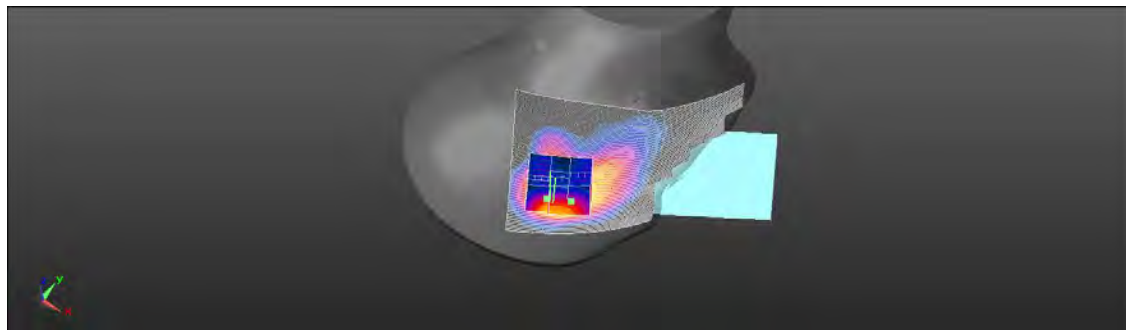
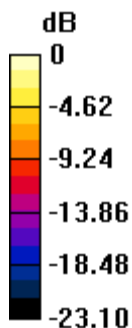
Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 0.833 W/kg; SAR(10 g) = 0.356 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 39.8%

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



0 dB = 1.48 W/kg = 1.69 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Hotspot_Left Edge_CH 518598_BPSK_1-1_Ant4_10mm

Communication System: 5G_NR; Frequency: 2592.99 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.931$ S/m; $\epsilon_r = 38.584$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.521 W/kg

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

Reference Value = 10.09 V/m; Power Drift = 0.05 dB

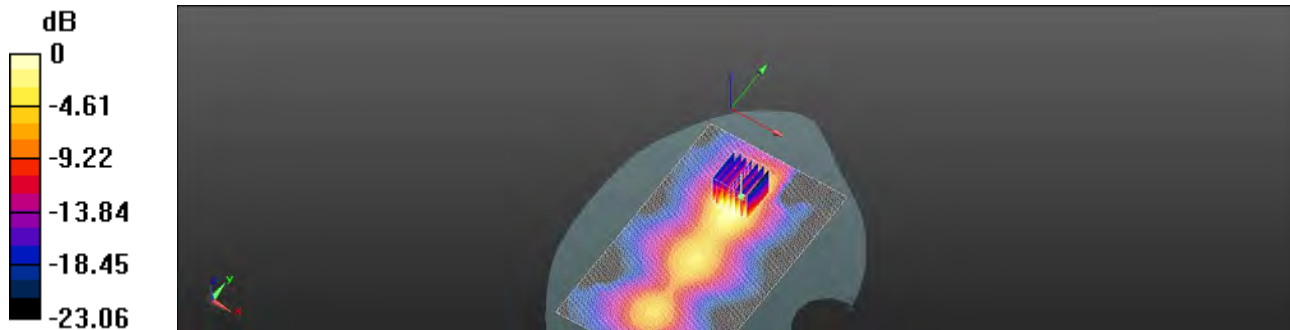
Peak SAR (extrapolated) = 0.808 W/kg

SAR(1 g) = 0.365 W/kg; SAR(10 g) = 0.169 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 0.577 W/kg



0 dB = 0.577 W/kg = -2.39 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Body-Worn_Back Surface_CH 528000_BPSK_1-1_Ant4_15mm

Communication System: 5G NR; Frequency: 2640 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2640$ MHz; $\sigma = 1.991$ S/m; $\epsilon_r = 38.522$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.447 W/kg

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

Reference Value = 7.238 V/m; Power Drift = -0.16 dB

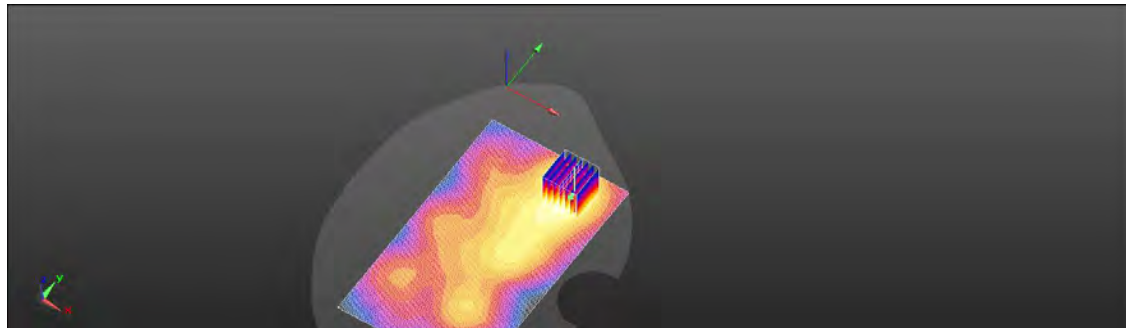
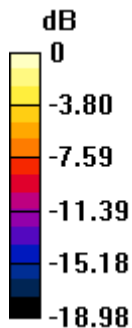
Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.183 W/kg

Smallest distance from peaks to all points 3 dB below = 13.9 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 0.434 W/kg



0 dB = 0.434 W/kg = -3.43 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Head_Left Tilt_CH 37850_QPSK_1-0_Ant7

Communication System: LTE; Frequency: 2580 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2580 \text{ MHz}$; $\sigma = 1.927 \text{ S/m}$; $\epsilon_r = 38.593$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.980 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.82 V/m; Power Drift = 0.17 dB

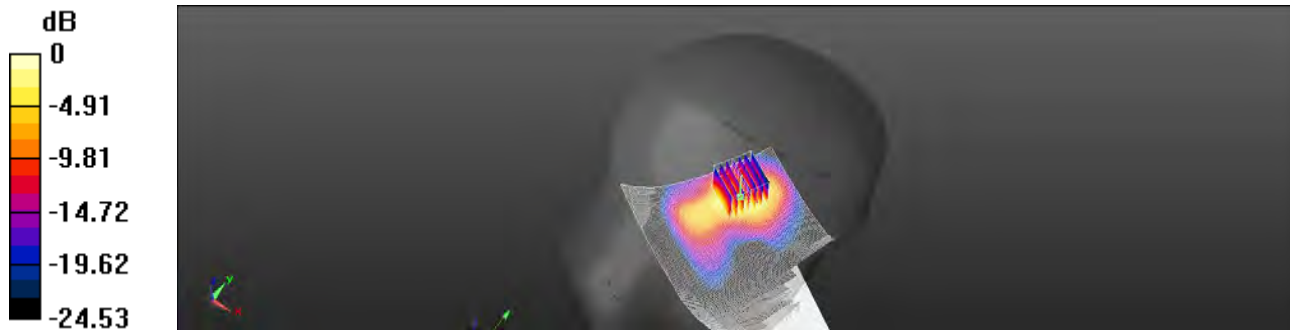
Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.629 W/kg; SAR(10 g) = 0.293 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 0.942 W/kg



0 dB = 0.942 W/kg = -0.26 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Hotspot_Top Edge_CH 37850_QPSK_1-0_Ant7_10mm

Communication System: LTE; Frequency: 2580 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2580 \text{ MHz}$; $\sigma = 1.927 \text{ S/m}$; $\epsilon_r = 38.593$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 0.385 W/kg

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

Reference Value = 8.821 V/m; Power Drift = -0.06 dB

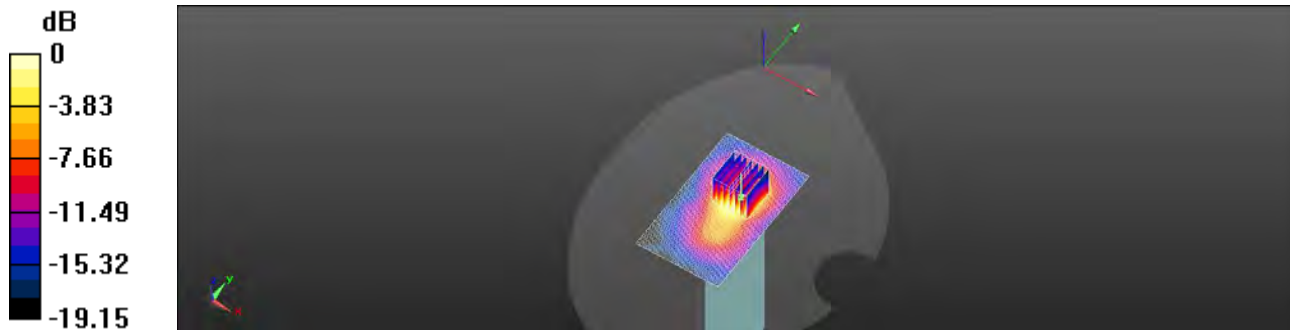
Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.129 W/kg

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 0.359 W/kg



0 dB = 0.359 W/kg = -4.45 dBW/kg

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Report No. :ES/2022/30012

LTE Band 38 (20MHz)_Body-Worn_Back Surface_CH 37850_QPSK_1-0_Ant7_15mm

Communication System: LTE; Frequency: 2580 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.927$ S/m; $\epsilon_r = 38.593$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.152 W/kg

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

Reference Value = 1.007 V/m; Power Drift = 0.02 dB

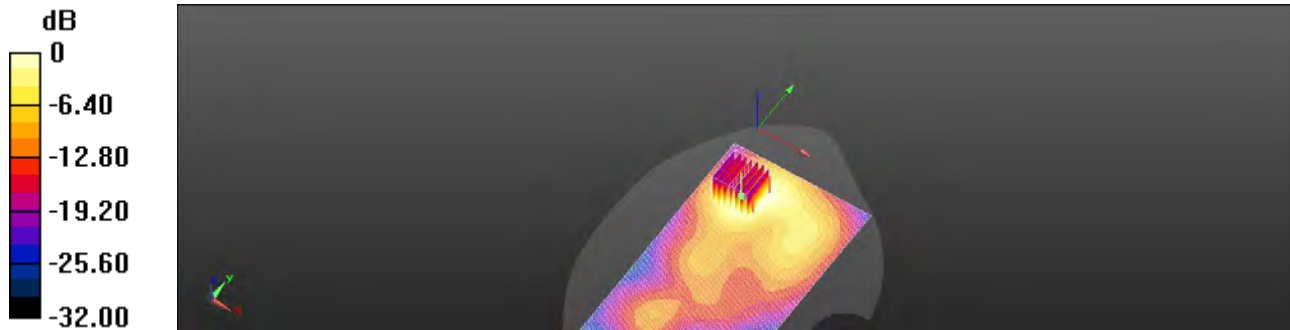
Peak SAR (extrapolated) = 0.176 W/kg

SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.051 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

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

Maximum value of SAR (measured) = 0.135 W/kg



0 dB = 0.135 W/kg = -8.71 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Head_Left Tilt_CH 40185_QPSK_1-0_Ant7

Communication System: LTE; Frequency: 2549.5 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2549.5$ MHz; $\sigma = 1.894$ S/m; $\epsilon_r = 38.644$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 13.70 V/m; Power Drift = 0.04 dB

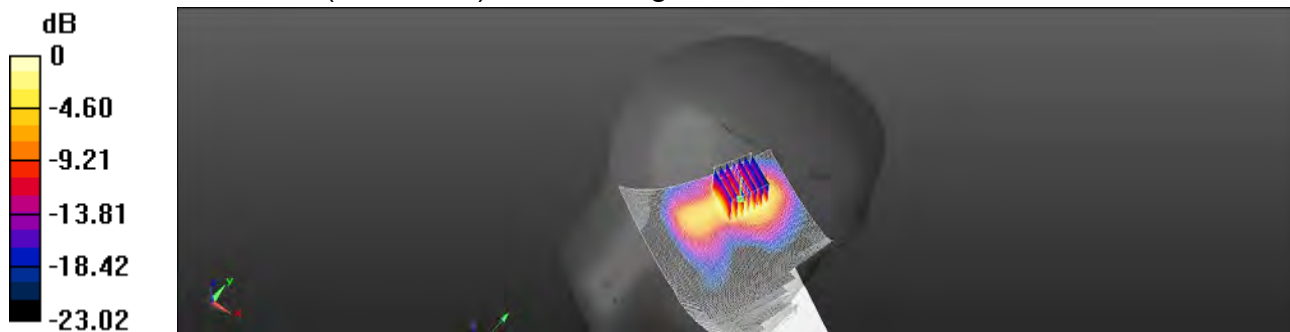
Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.344 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

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



0 dB = 1.11 W/kg = 0.45 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Hotspot_Top Edge_CH 40185_QPSK_1-0_Ant7_10mm

Communication System: LTE; Frequency: 2549.5 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2549.5$ MHz; $\sigma = 1.894$ S/m; $\epsilon_r = 38.644$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 0.450 W/kg

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

Reference Value = 9.823 V/m; Power Drift = -0.13 dB

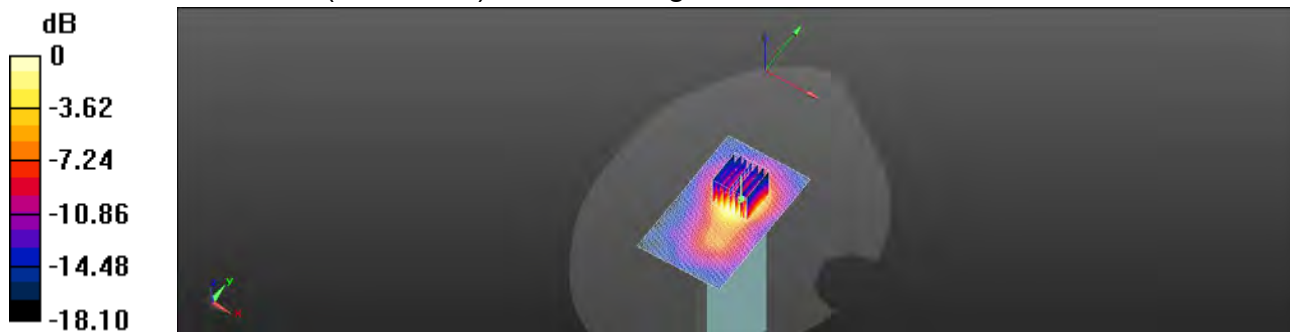
Peak SAR (extrapolated) = 0.543 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.156 W/kg

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 0.425 W/kg



0 dB = 0.425 W/kg = -3.72 dBW/kg

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Report No. :ES/2022/30012

LTE Band 41 (20MHz)_Body-Worn_Back Surface_CH 40185_QPSK_1-0_Ant7_15mm

Communication System: LTE; Frequency: 2549.5 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2549.5 \text{ MHz}$; $\sigma = 1.894 \text{ S/m}$; $\epsilon_r = 38.644$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.170 W/kg

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

Reference Value = 1.386 V/m; Power Drift = 0.10 dB

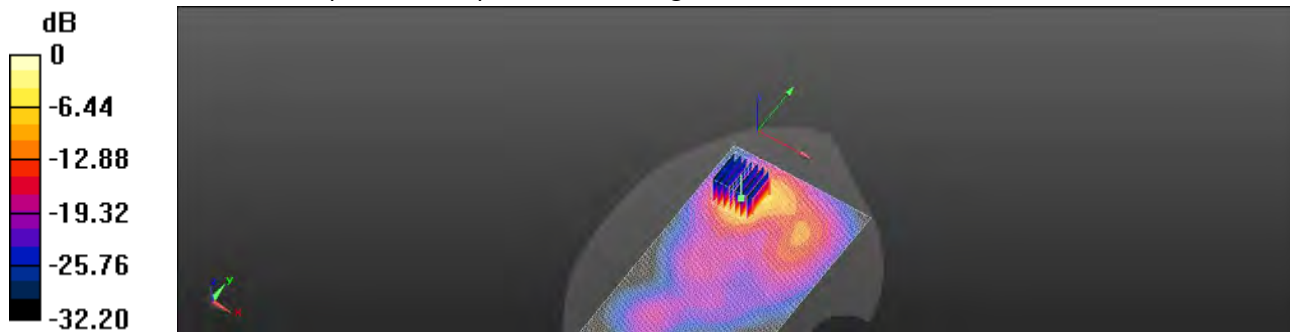
Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.063 W/kg

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 0.154 W/kg



0 dB = 0.154 W/kg = -8.12 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Head_Left Touch_CH 516000_BPSK_1-1_Ant7

Communication System: 5G NR; Frequency: 2580 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2580 \text{ MHz}$; $\sigma = 1.927 \text{ S/m}$; $\epsilon_r = 38.593$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 13.56 V/m; Power Drift = -0.07 dB

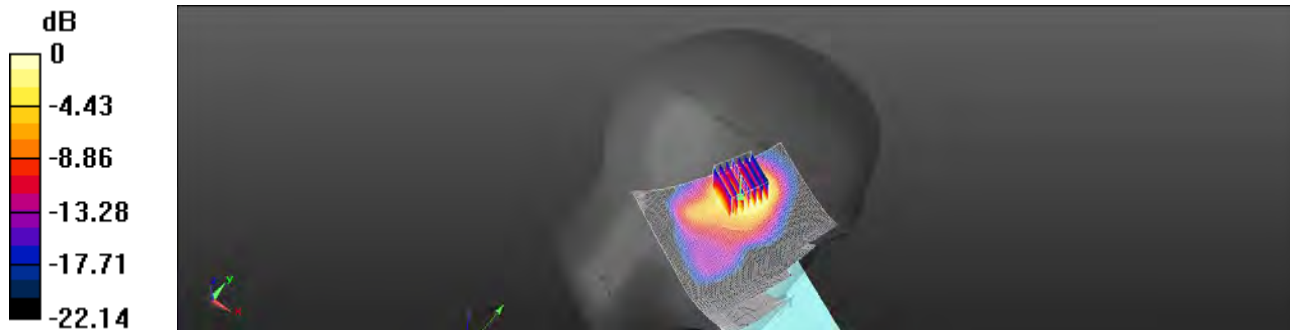
Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.793 W/kg; SAR(10 g) = 0.384 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

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



0 dB = 1.14 W/kg = 0.58 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Hotspot_Top Edge_CH 516000_BPSK_1-1_Ant7_10mm

Communication System: 5G NR; Frequency: 2580 MHz; Duty Cycle: 1:6.3387

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.927$ S/m; $\epsilon_r = 38.593$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 0.807 W/kg

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

Reference Value = 12.88 V/m; Power Drift = -0.25 dB

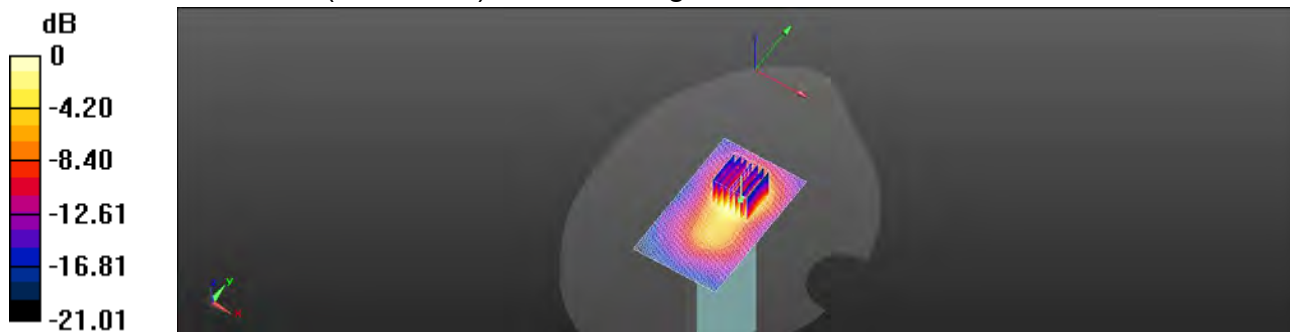
Peak SAR (extrapolated) = 0.996 W/kg

SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.273 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.774 W/kg



0 dB = 0.774 W/kg = -1.11 dBW/kg

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Report No. :ES/2022/30012

5G NR n38 (20MHz)_Body-Worn_Back Surface_CH 516000_BPSK_1-1_Ant7_15mm

Communication System: 5G NR; Frequency: 2580 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.927$ S/m; $\epsilon_r = 38.593$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.283 W/kg

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

Reference Value = 3.232 V/m; Power Drift = 0.07 dB

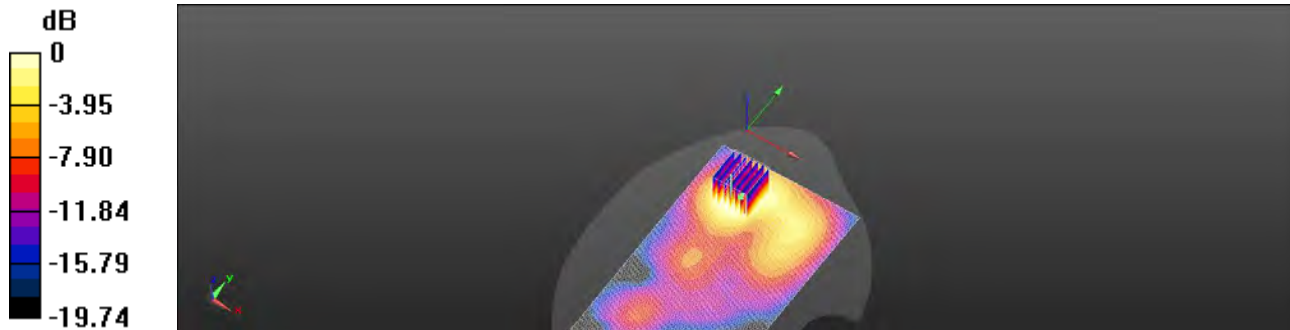
Peak SAR (extrapolated) = 0.368 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.112 W/kg

Smallest distance from peaks to all points 3 dB below = 15.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

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



0 dB = 0.276 W/kg = -5.60 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Head_Left Touch_CH 509202_BPSK_1-1_Ant7

Communication System: 5G NR; Frequency: 2546.01 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2546.01$ MHz; $\sigma = 1.889$ S/m; $\epsilon_r = 38.667$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 14.89 V/m; Power Drift = -0.06 dB

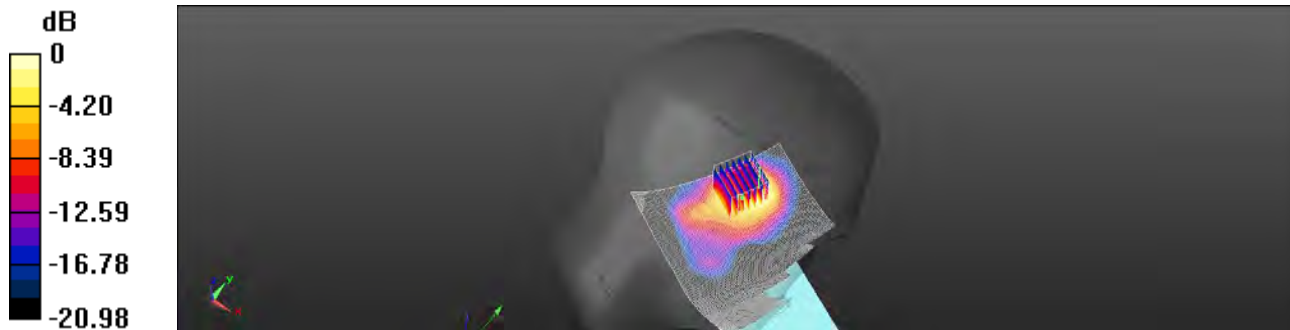
Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.396 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 38.2%

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



0 dB = 1.25 W/kg = 0.97 dBW/kg

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Date: 2022/4/4

Report No. :ES/2022/30012

5G NR n41 (100MHz)_Hotspot_Top Edge_CH 518598_BPSK_1-1_Ant7_10mm

Communication System: 5G NR; Frequency: 2592.99 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.941$ S/m; $\epsilon_r = 38.593$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 0.814 W/kg

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

Reference Value = 11.75 V/m; Power Drift = -0.13 dB

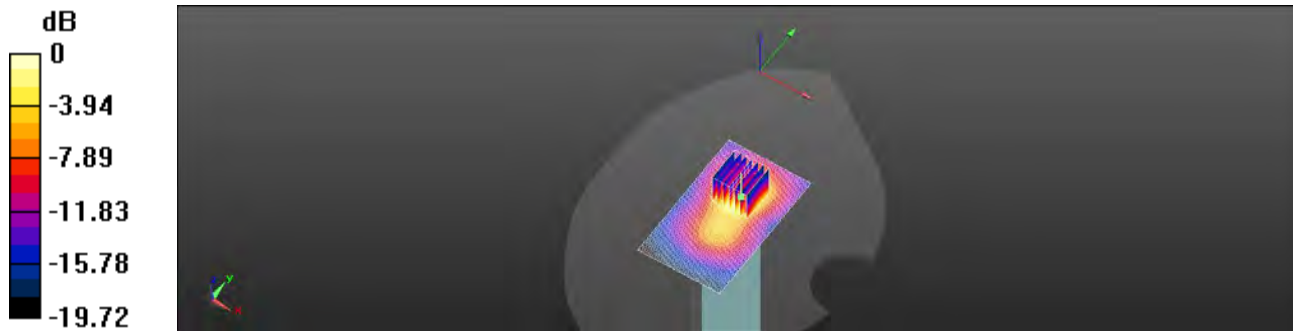
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.288 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 0.815 W/kg



0 dB = 0.815 W/kg = -0.89 dBW/kg

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Report No. :ES/2022/30012

5G NR n41 (100MHz)_Body-Worn_Back Surface_CH 518598_BPSK_1-1_Ant7_15mm

Communication System: 5G NR; Frequency: 2592.99 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.941$ S/m; $\epsilon_r = 38.593$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.342 W/kg

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

Reference Value = 4.545 V/m; Power Drift = -0.15 dB

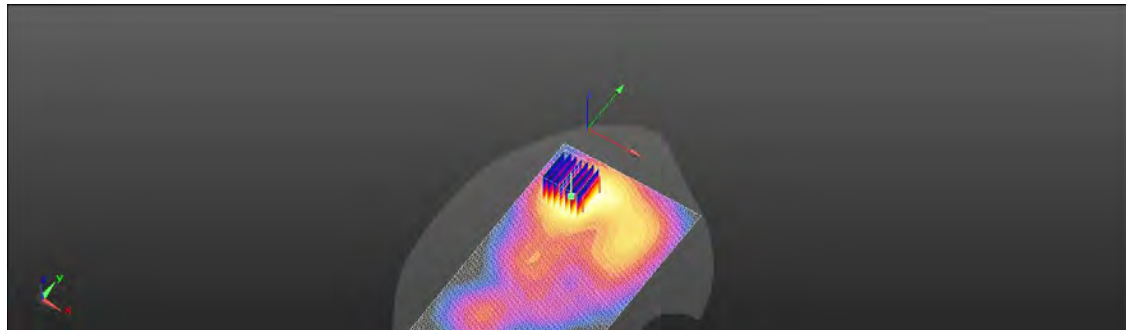
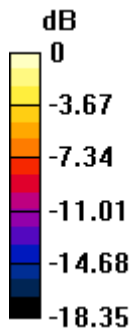
Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.140 W/kg

Smallest distance from peaks to all points 3 dB below = 14.3 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 0.345 W/kg



0 dB = 0.345 W/kg = -4.62 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11b_Head_Left Touch_CH 1_Ant9

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.006

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.752 \text{ S/m}$; $\epsilon_r = 38.82$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.857 W/kg

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

Reference Value = 5.897 V/m; Power Drift = 0.17 dB

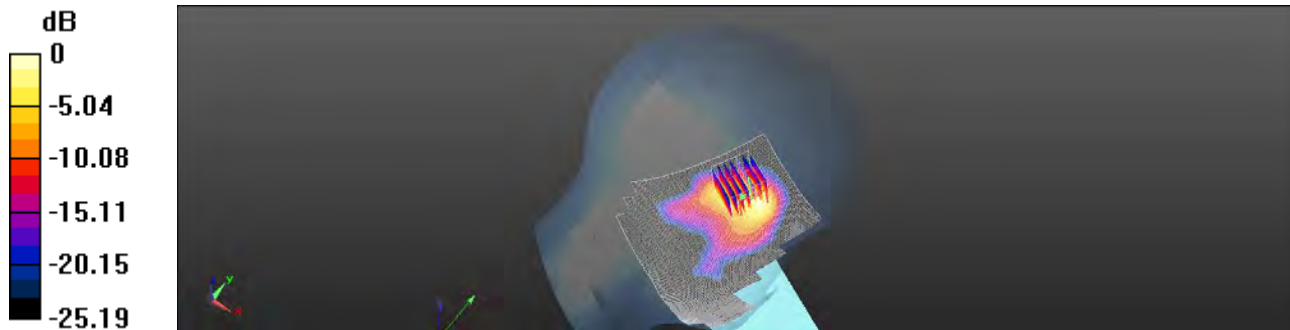
Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.582 W/kg; SAR(10 g) = 0.248 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 40.1%

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



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

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Report No. :ES/2022/30012
WLAN 802.11b_Hotspot_Right Edge_CH 1_Ant9_10mm

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.006

 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.752$ S/m; $\epsilon_r = 38.82$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.523 W/kg

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

Reference Value = 8.414 V/m; Power Drift = 0.11 dB

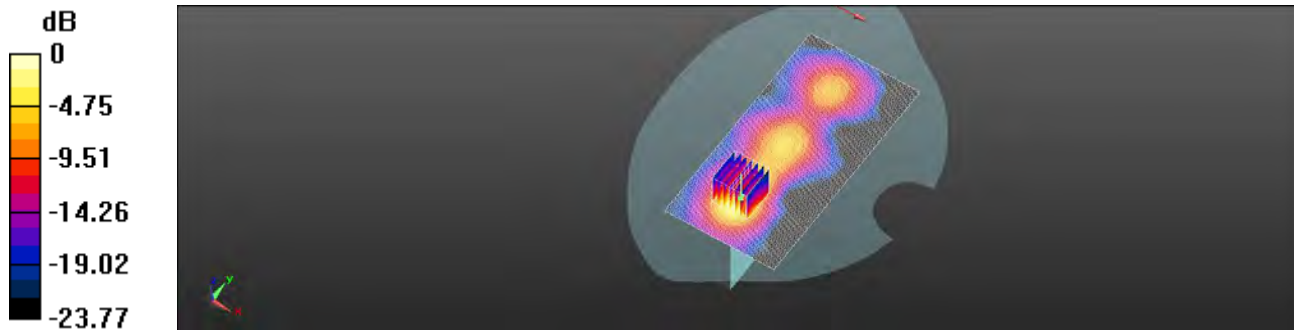
Peak SAR (extrapolated) = 0.720 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.159 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 0.543 W/kg



0 dB = 0.543 W/kg = -2.65 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11b_Body-Worn_Back Surface_CH 1_Ant9_15mm

Communication System: WLAN; Frequency: 2412 MHz; Duty cycle= 1:1.006

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.752 \text{ S/m}$; $\epsilon_r = 38.82$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.501 W/kg

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

Reference Value = 5.861 V/m; Power Drift = 0.15 dB

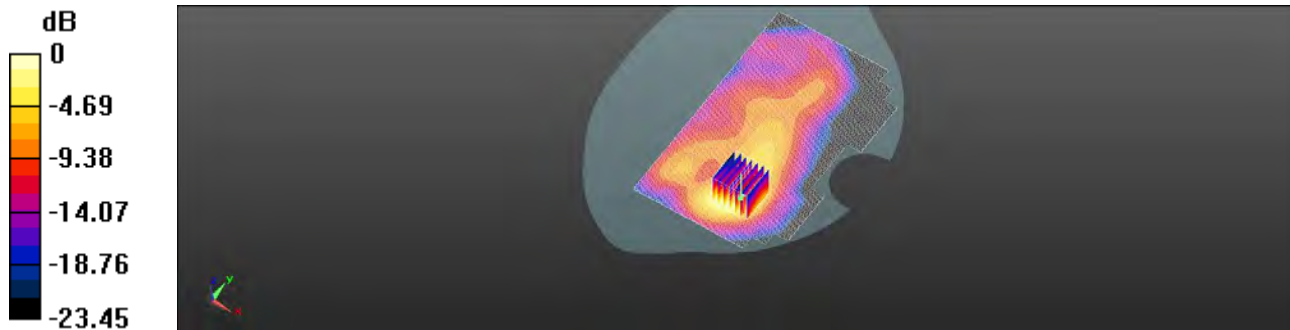
Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.153 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.2%

Maximum value of SAR (measured) = 0.480 W/kg



0 dB = 0.480 W/kg = -3.19 dBW/kg

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Report No. :ES/2022/30012

Bluetooth(GFSK)_Head_Left Touch_CH 0_Ant9

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1.145

Medium parameters used: $f = 2402 \text{ MHz}$; $\sigma = 1.733 \text{ S/m}$; $\epsilon_r = 38.831$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x171x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 1.954 V/m; Power Drift = 0.13 dB

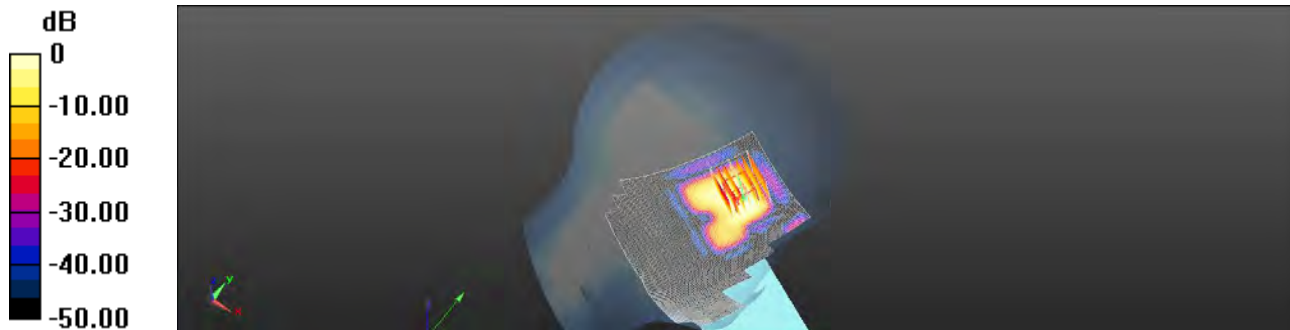
Peak SAR (extrapolated) = 0.200 W/kg

SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.038 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.9%

Maximum value of SAR (measured) = 0.123 W/kg



0 dB = 0.123 W/kg = -9.10 dBW/kg

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Report No. :ES/2022/30012

Bluetooth(GFSK)_Hotspot_Right Edge_CH 0_Ant9_10mm

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1.145

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.733$ S/m; $\epsilon_r = 38.831$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.129 W/kg

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

Reference Value = 2.968 V/m; Power Drift = 0.09 dB

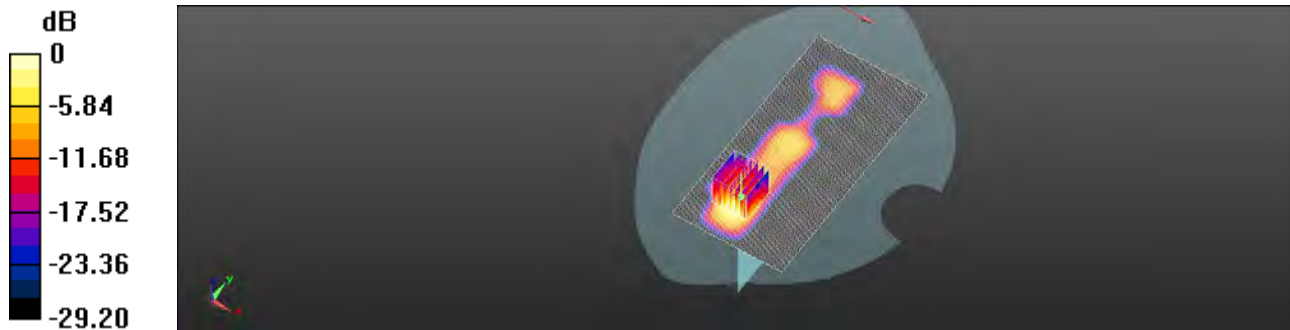
Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.035 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 0.126 W/kg



0 dB = 0.126 W/kg = -9.00 dBW/kg

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Report No. :ES/2022/30012

Bluetooth(GFSK)_Body-Worn_Back Surface_CH 0_Ant9_15mm

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1.145

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.733$ S/m; $\epsilon_r = 38.831$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0320 W/kg

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

Reference Value = 1.188 V/m; Power Drift = 0.14 dB

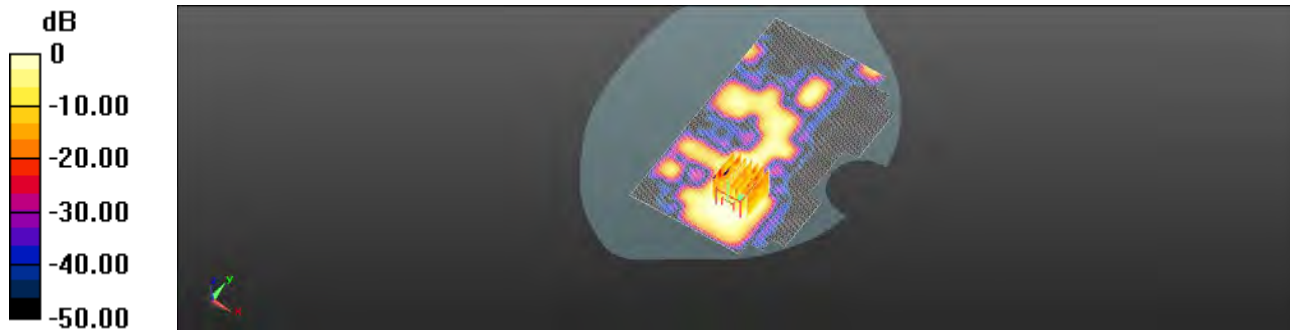
Peak SAR (extrapolated) = 0.0520 W/kg

SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.00742 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.8%

Maximum value of SAR (measured) = 0.0243 W/kg



0 dB = 0.0243 W/kg = -16.14 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11n(40M) 5.2G_Head_Left Touch_CH 46_Ant8

Communication System: WLAN; Frequency: 5230 MHz; Duty cycle= 1:1.035

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.651 \text{ S/m}$; $\epsilon_r = 35.603$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x211x1): Interpolated grid: dx=10 mm, dy=10 mm

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

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.769 V/m; Power Drift = 0.07 dB

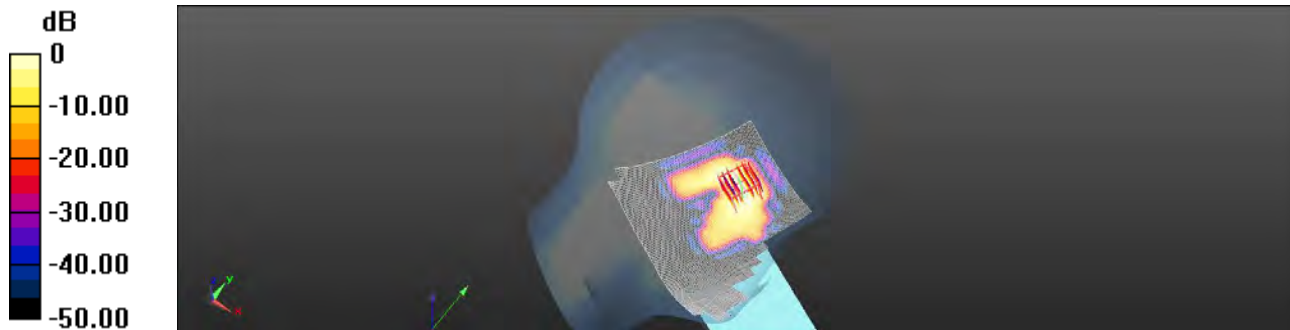
Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.455 W/kg; SAR(10 g) = 0.132 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 0.958 W/kg



0 dB = 0.958 W/kg = -0.19 dBW/kg

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Report No. :ES/2022/30012
WLAN 802.11n(40M) 5.2G_Hotspot_Right Edge_CH 46_Ant8_10mm

Communication System: WLAN; Frequency: 5230 MHz; Duty cycle= 1:1.035

 Medium parameters used: $f = 5230$ MHz; $\sigma = 4.651$ S/m; $\epsilon_r = 35.603$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x201x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.944 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.341 V/m; Power Drift = 0.05 dB

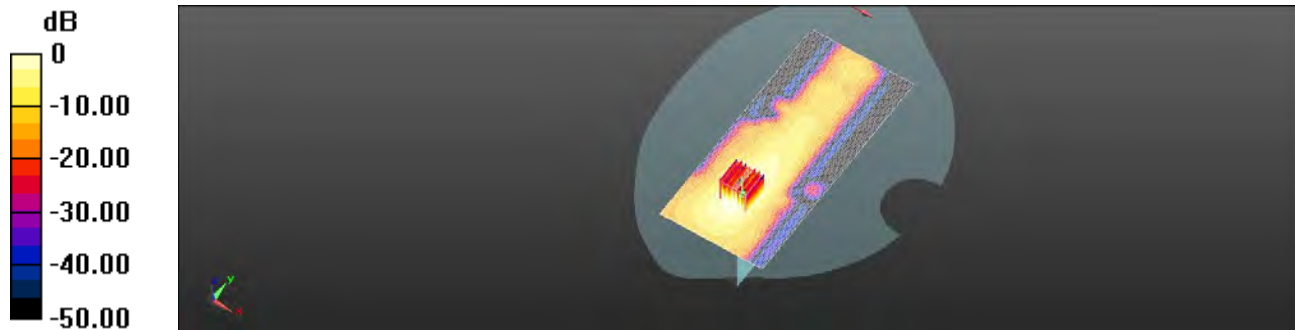
Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.184 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.933 W/kg



0 dB = 0.933 W/kg = -0.30 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11a 5.2G_Body-Worn_Back Surface_CH 48_Ant8_15mm

Communication System: WLAN; Frequency: 5240 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 4.66 \text{ S/m}$; $\epsilon_r = 35.599$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x201x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.556 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.369 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.313 W/kg; SAR(10 g) = 0.133 W/kg

Smallest distance from peaks to all points 3 dB below = 14 mm

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

Maximum value of SAR (measured) = 0.543 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.369 V/m; Power Drift = 0.12 dB

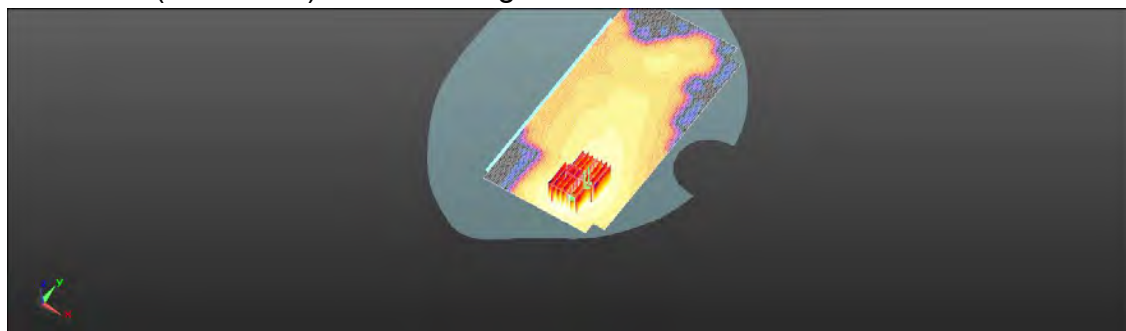
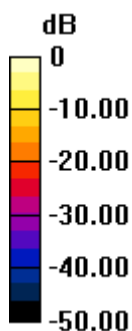
Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.306 W/kg; SAR(10 g) = 0.131 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 0.543 W/kg



0 dB = 0.543 W/kg = -2.65 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11n(40M) 5.3G_Head_Left Touch_CH 54_Ant8

Communication System: WLAN; Frequency: 5270 MHz; Duty cycle= 1:1.035

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.691$ S/m; $\epsilon_r = 35.539$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x211x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.666 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.211 V/m; Power Drift = 0.18 dB

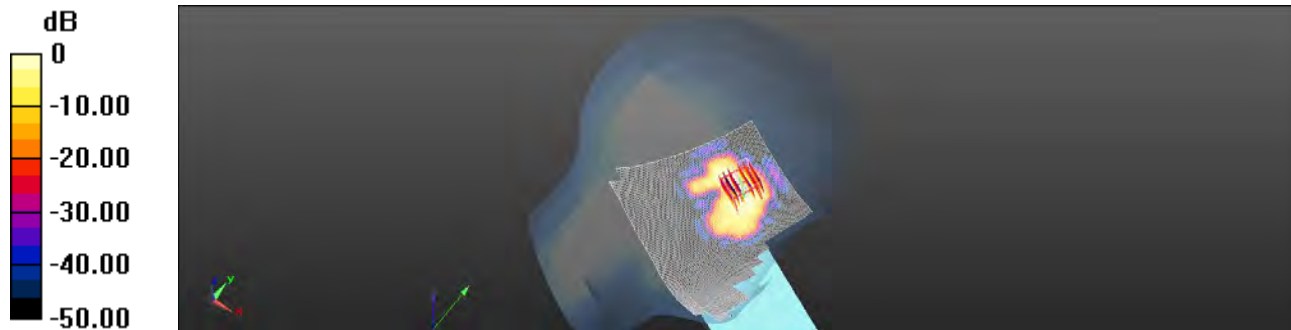
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.095 W/kg

Smallest distance from peaks to all points 3 dB below = 5.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 0.646 W/kg



0 dB = 0.646 W/kg = -1.90 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11a 5.3G_Body-Worn_Back Surface_CH 52_Ant8_15mm

Communication System: WLAN; Frequency: 5260 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.677 \text{ S/m}$; $\epsilon_r = 35.576$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x201x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.464 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.053 V/m; Power Drift = 0.17 dB

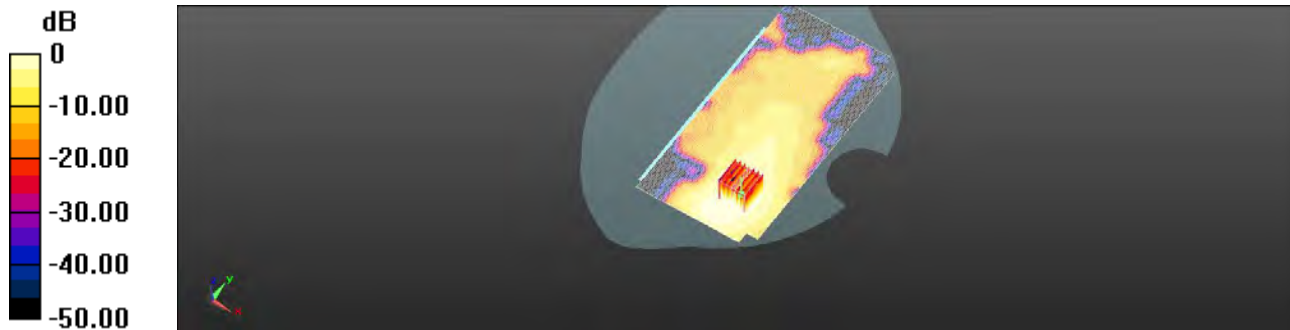
Peak SAR (extrapolated) = 0.876 W/kg

SAR(1 g) = 0.256 W/kg; SAR(10 g) = 0.109 W/kg

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.455 W/kg



0 dB = 0.455 W/kg = -3.42 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11a 5.3G_Extremity_Right Edge_CH 52_Ant8_0mm

Communication System: WLAN; Frequency: 5260 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.677 \text{ S/m}$; $\epsilon_r = 35.576$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x201x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 13.6 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.32 V/m; Power Drift = 0.16 dB

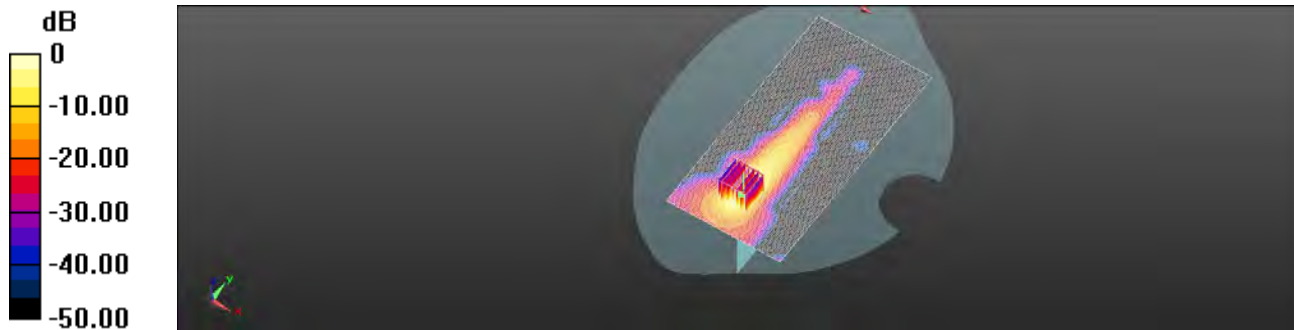
Peak SAR (extrapolated) = 52.6 W/kg

SAR(1 g) = 8.15 W/kg; SAR(10 g) = 2.03 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11ac(80M) 5.6G_Head_Left Touch_CH 138_Ant8

Communication System: WLAN; Frequency: 5690 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.157$ S/m; $\epsilon_r = 33.93$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient temperature: 22.6°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x211x1): Interpolated grid: dx=10 mm, dy=10 mm

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

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.063 V/m; Power Drift = 0.16 dB

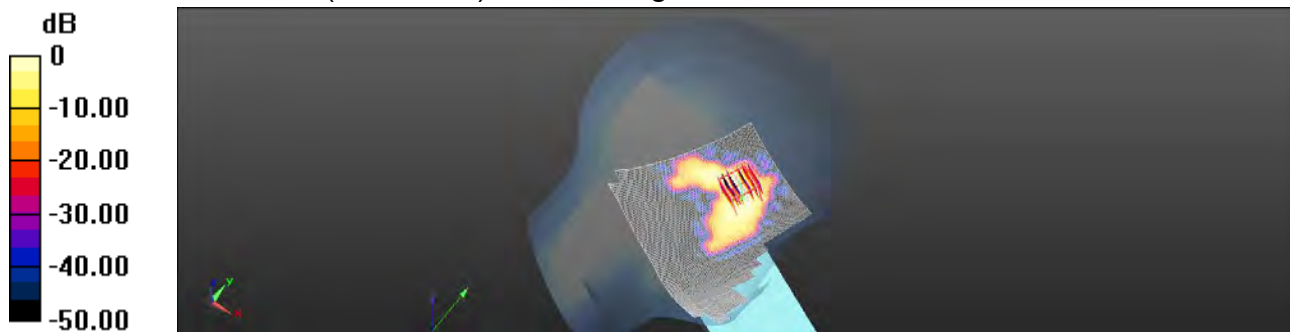
Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.149 W/kg

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

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

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11a 5.6G_Body-Worn_Back Surface_CH 144_Ant8_15mm

Communication System: WLAN; Frequency: 5720 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5720$ MHz; $\sigma = 5.147$ S/m; $\epsilon_r = 35.034$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x201x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.681 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.185 V/m; Power Drift = 0.04 dB

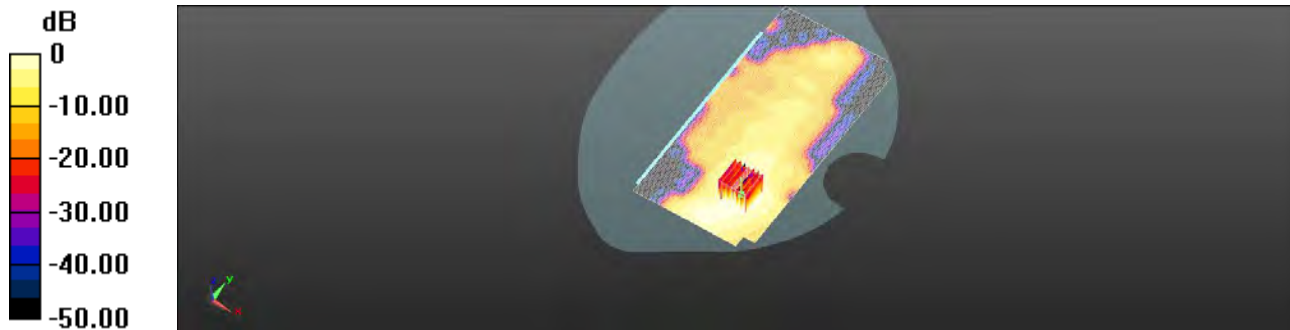
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.149 W/kg

Smallest distance from peaks to all points 3 dB below = 12.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 0.686 W/kg



0 dB = 0.686 W/kg = -1.64 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11a 5.6G_Extremity_Right Edge_CH 144_Ant8_0mm

Communication System: WLAN; Frequency: 5720 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5720$ MHz; $\sigma = 5.027$ S/m; $\epsilon_r = 35.156$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x201x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 12.3 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.88 V/m; Power Drift = 0.14 dB

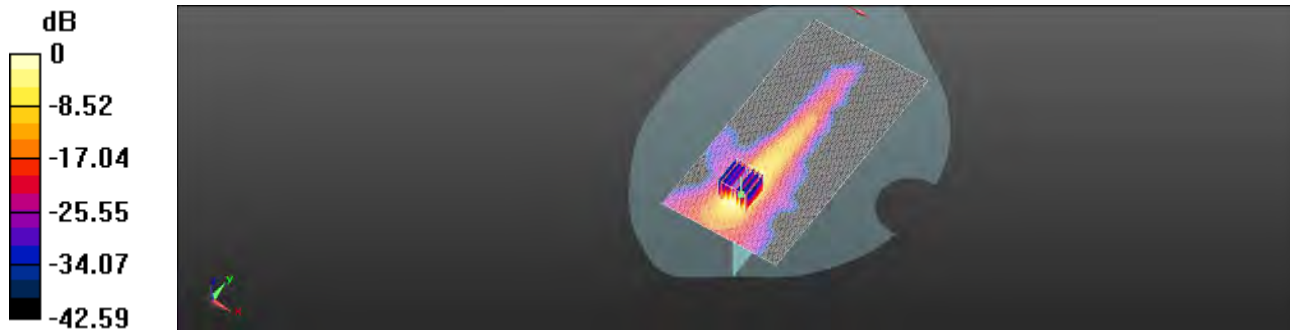
Peak SAR (extrapolated) = 45.9 W/kg

SAR(1 g) = 7.49 W/kg; SAR(10 g) = 1.88 W/kg

Smallest distance from peaks to all points 3 dB below = 5 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

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. :ES/2022/30012

WLAN 802.11ac(80M) 5.8G_Head_Left Touch_CH 155_Ant8

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.205 \text{ S/m}$; $\epsilon_r = 34.986$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient temperature: 22.6°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x211x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.094 V/m; Power Drift = 0.11 dB

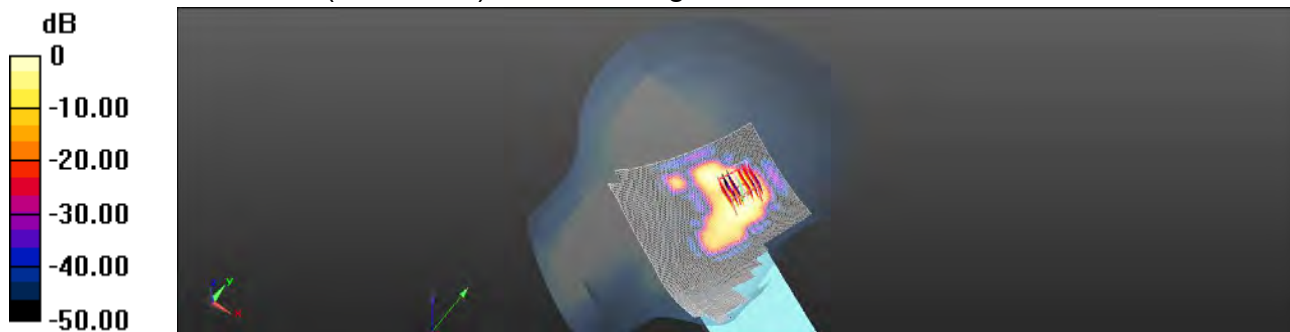
Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.131 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.3%

Maximum value of SAR (measured) = 0.998 W/kg



0 dB = 0.998 W/kg = -0.01 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11ac(80M) 5.8G_Hotspot_Right Edge_CH 155_Ant8_10mm

Communication System: WLAN; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.205$ S/m; $\epsilon_r = 34.986$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x201x1): Interpolated grid: dx=10 mm, dy=10 mm

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

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.356 V/m; Power Drift = 0.07 dB

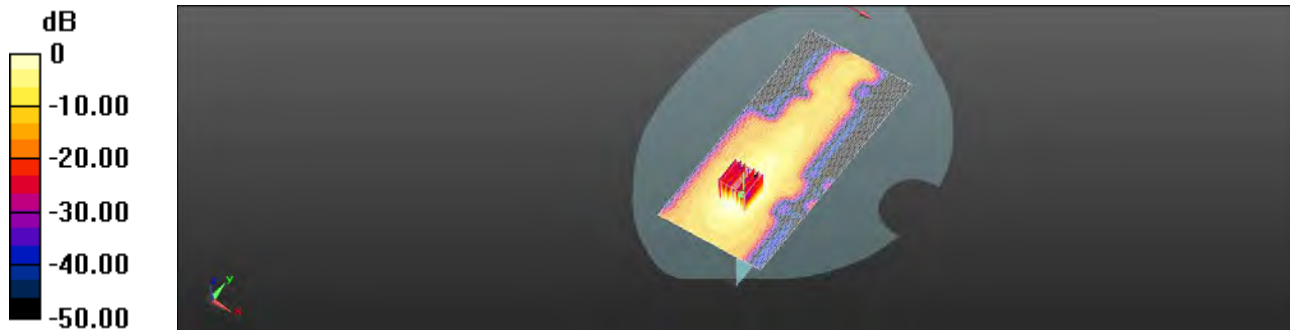
Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.206 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 51%

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



0 dB = 1.07 W/kg = 0.29 dBW/kg

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Report No. :ES/2022/30012

WLAN 802.11a 5.8G_Body-Worn_Back Surface_CH 149_Ant8_15mm

Communication System: WLAN; Frequency: 5745 MHz; Duty cycle= 1:1.02

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.17 \text{ S/m}$; $\epsilon_r = 35.02$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x201x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.655 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.015 V/m; Power Drift = 0.09 dB

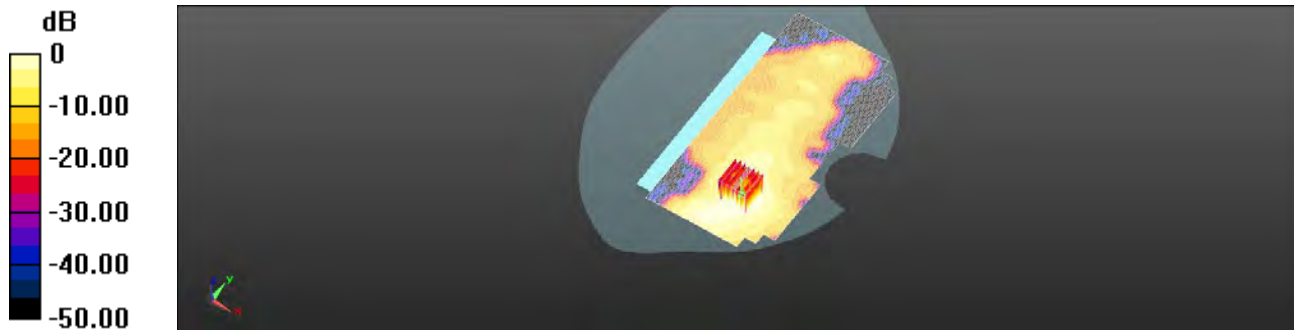
Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.135 W/kg

Smallest distance from peaks to all points 3 dB below = 12.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 0.635 W/kg



0 dB = 0.635 W/kg = -1.97 dBW/kg

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6. SAR System Performance Verification

Date: 2022/3/29

Report No. :ES/2022/30012
Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 41.911$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

 Ambient temperature: 22.3°C ; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

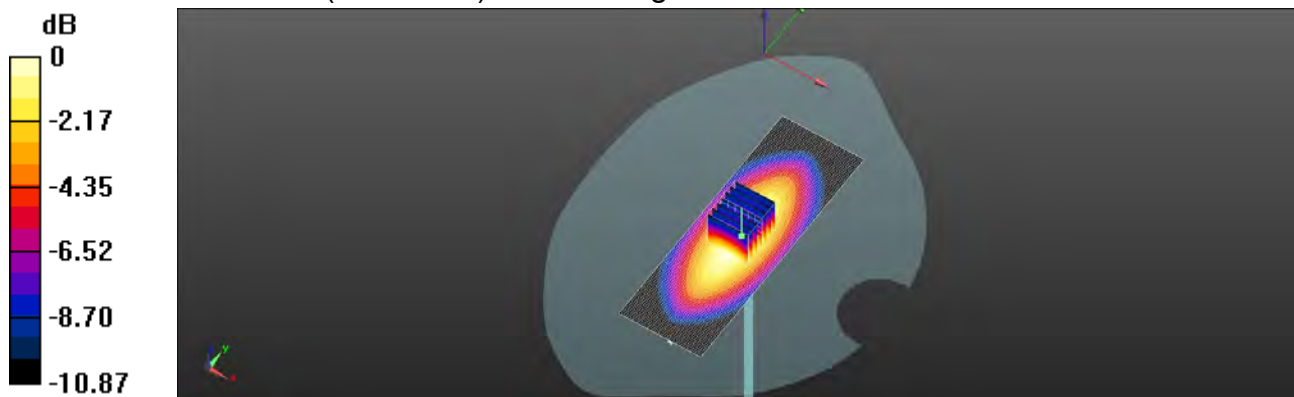
 Maximum value of SAR (interpolated) = 3.41 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

 Reference Value = 61.10 V/m ; Power Drift = 0.02 dB

 Peak SAR (extrapolated) = 4.04 W/kg
SAR(1 g) = 2.42 W/kg ; SAR(10 g) = 1.56 W/kg

 Smallest distance from peaks to all points 3 dB below = 12.3 mm

 Ratio of SAR at M2 to SAR at M1 = 51.2%

 Maximum value of SAR (measured) = 3.43 W/kg

 $0 \text{ dB} = 3.43 \text{ W/kg} = 5.36 \text{ dBW/kg}$

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Report No. :ES/2022/30012

Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.394 \text{ S/m}$; $\epsilon_r = 39.754$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.2 W/kg

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

Reference Value = 100.4 V/m; Power Drift = 0.03 dB

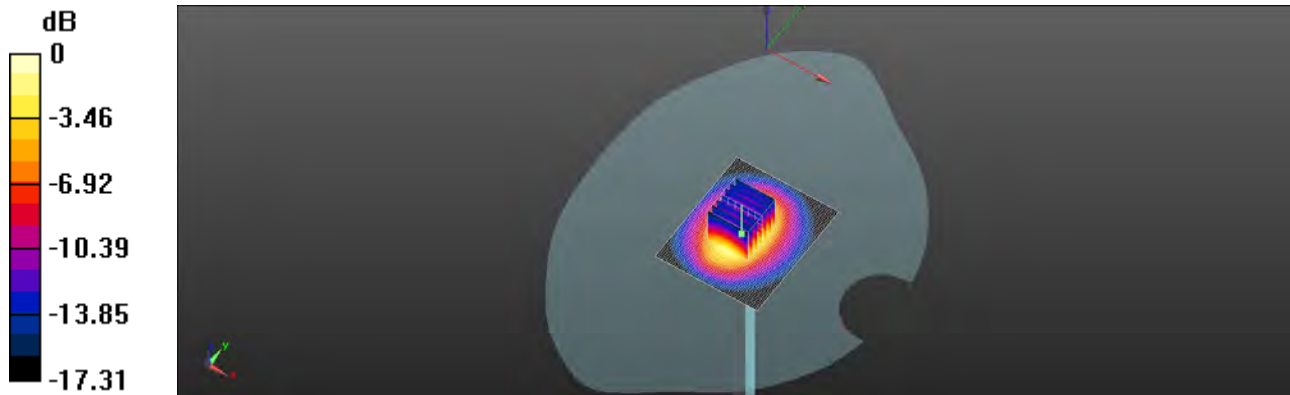
Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.95 W/kg; SAR(10 g) = 5.18 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg = 11.44 dBW/kg

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Report No. :ES/2022/30012

Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.394 \text{ S/m}$; $\epsilon_r = 39.732$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.9 W/kg

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

Reference Value = 99.90 V/m; Power Drift = -0.03 dB

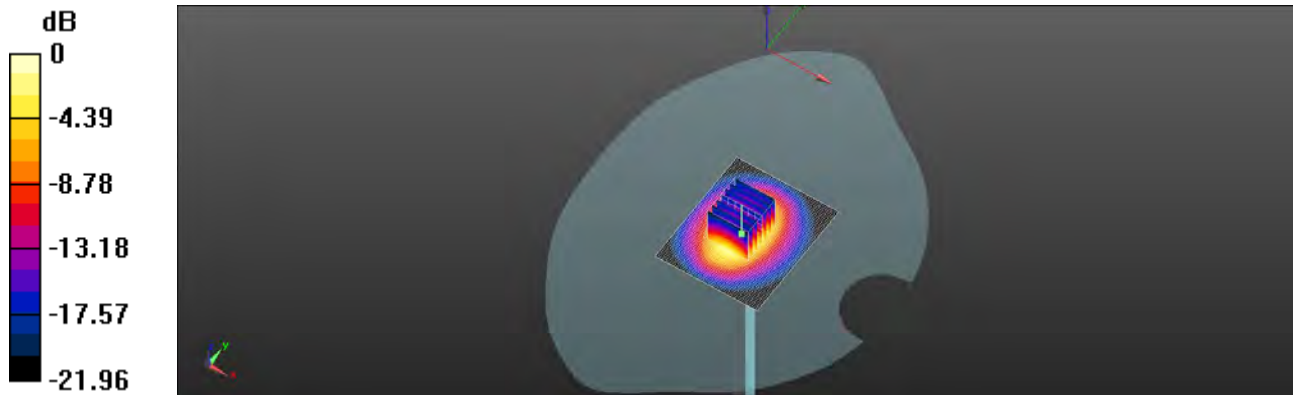
Peak SAR (extrapolated) = 15.2 W/kg

SAR(1 g) = 9.75 W/kg; SAR(10 g) = 5.08 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

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

Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.6 W/kg = 11.35 dBW/kg

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Report No. :ES/2022/30012

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.786 \text{ S/m}$; $\epsilon_r = 38.773$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 27.5 W/kg

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

Reference Value = 89.71 V/m; Power Drift = -0.01 dB

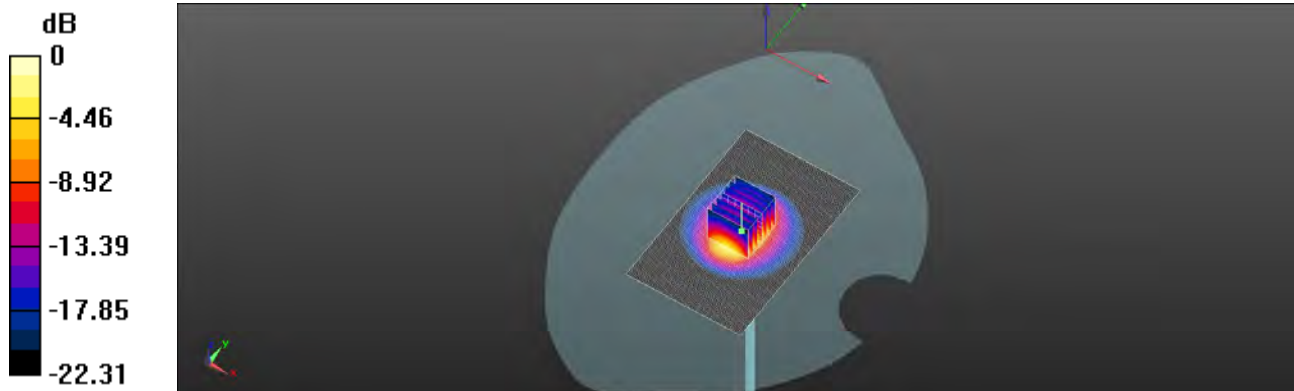
Peak SAR (extrapolated) = 35.7 W/kg

SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.17 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 25.5 W/kg



0 dB = 25.5 W/kg = 14.02 dBW/kg

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Report No. :ES/2022/30012

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.947 \text{ S/m}$; $\epsilon_r = 38.568$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 15.6 W/kg

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

Reference Value = 87.94 V/m; Power Drift = 0.01 dB

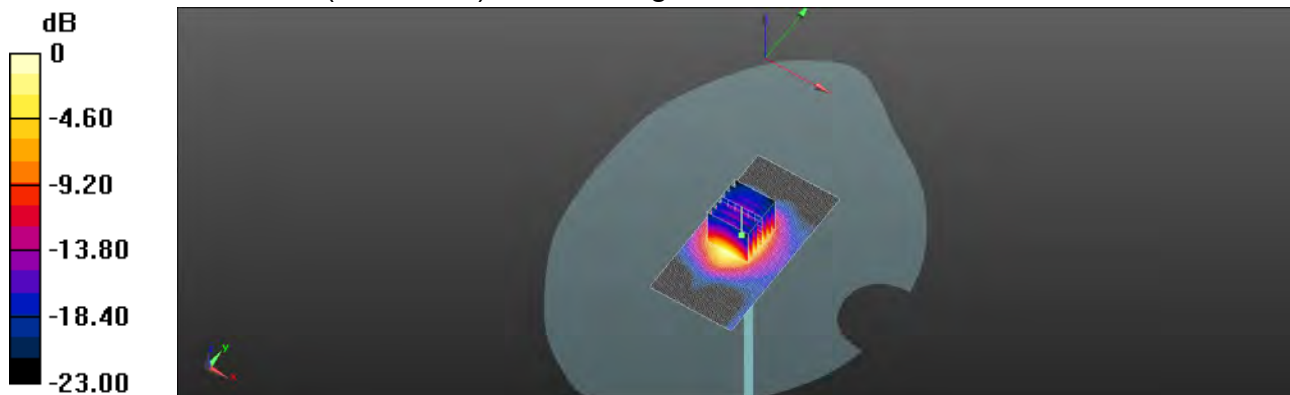
Peak SAR (extrapolated) = 20.9 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.23 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 44.3%

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.69 dBW/kg

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Report No. :ES/2022/30012

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.948$ S/m; $\epsilon_r = 38.592$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 15.3 W/kg

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

Reference Value = 85.66 V/m; Power Drift = 0.02 dB

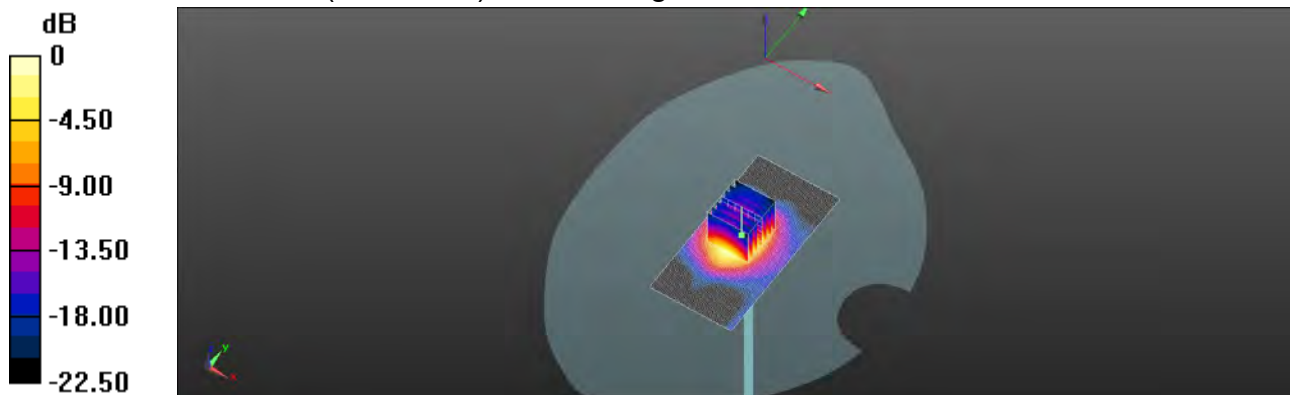
Peak SAR (extrapolated) = 20.7 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.32 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 44.5%

Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.66 dBW/kg

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Report No. :ES/2022/30012

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.948$ S/m; $\epsilon_r = 38.572$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.5b°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

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

Reference Value = 93.18 V/m; Power Drift = 0.03 dB

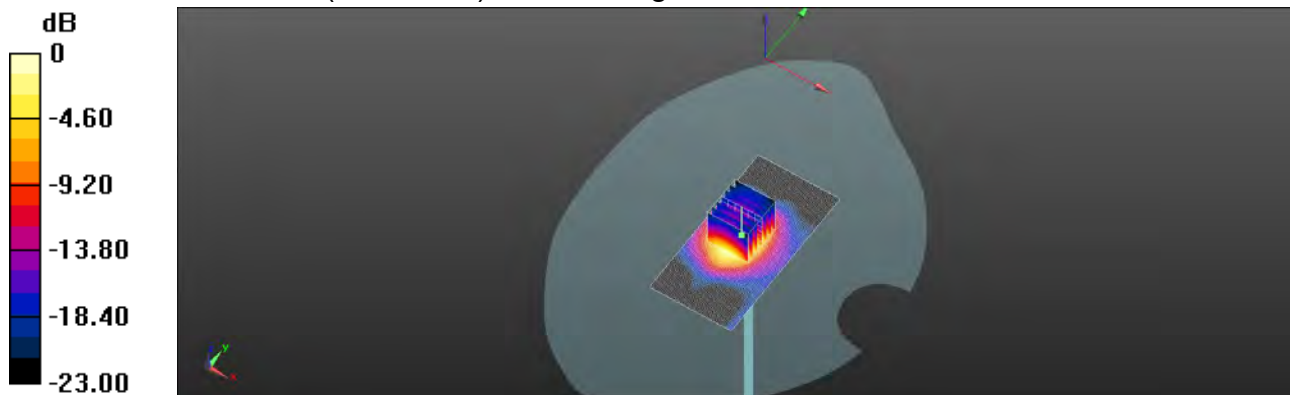
Peak SAR (extrapolated) = 22.9 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.41 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 12.27 dBW/kg

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Report No. :ES/2022/30012

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.948 \text{ S/m}$; $\epsilon_r = 38.568$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 16.3 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 103.7 V/m ; Power Drift = -0.01 dB

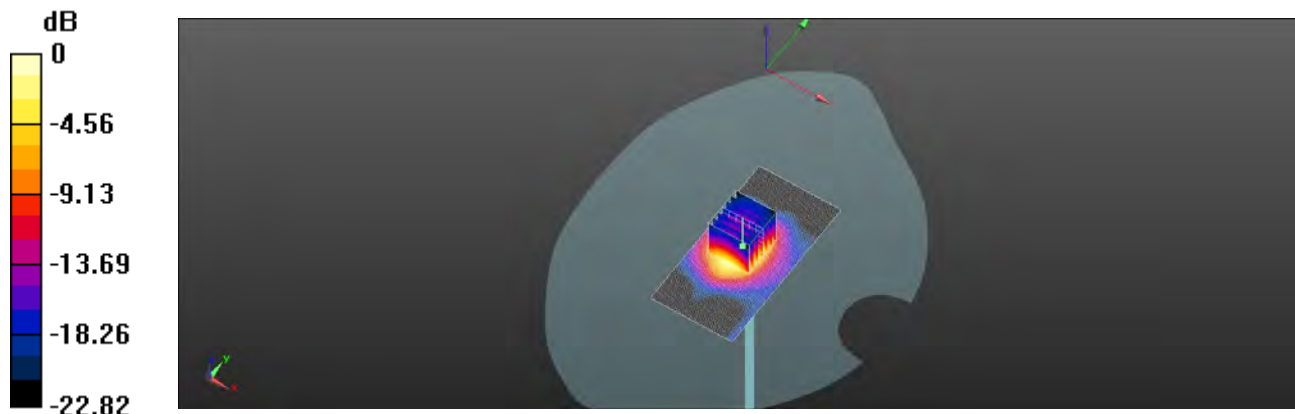
Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 14.3 W/kg ; SAR(10 g) = 6.44 W/kg

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 15.8 W/kg



0 dB = $15.8 \text{ W/kg} = 12.41 \text{ dBW/kg}$

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Report No. :ES/2022/30012

Dipole 5250 MHz_SN:1023

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.671 \text{ S/m}$; $\epsilon_r = 35.582$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 17.7 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 68.39 V/m; Power Drift = 0.02 dB

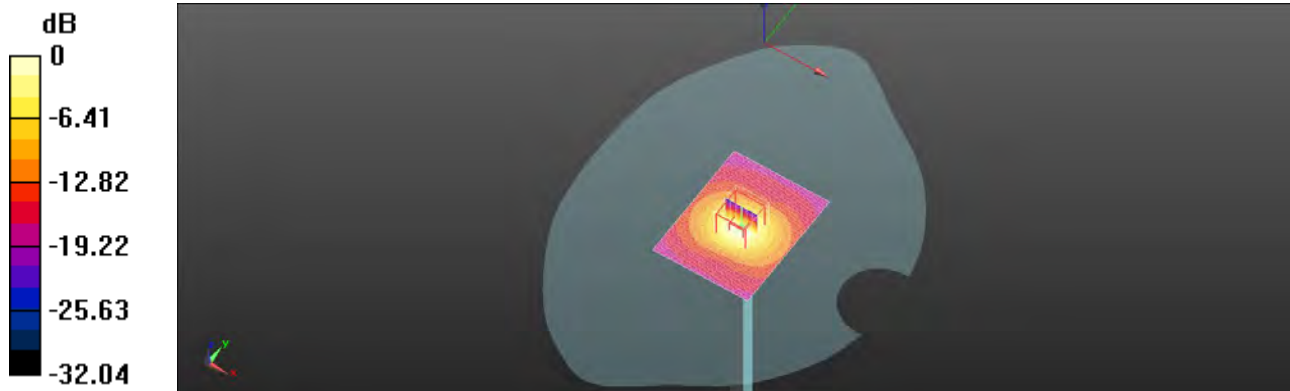
Peak SAR (extrapolated) = 31.5 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.29 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 12.47 dBW/kg

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Report No. :ES/2022/30012

Dipole 5600 MHz_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.027 \text{ S/m}$; $\epsilon_r = 35.156$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 20.1 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 53.98 V/m; Power Drift = -0.03 dB

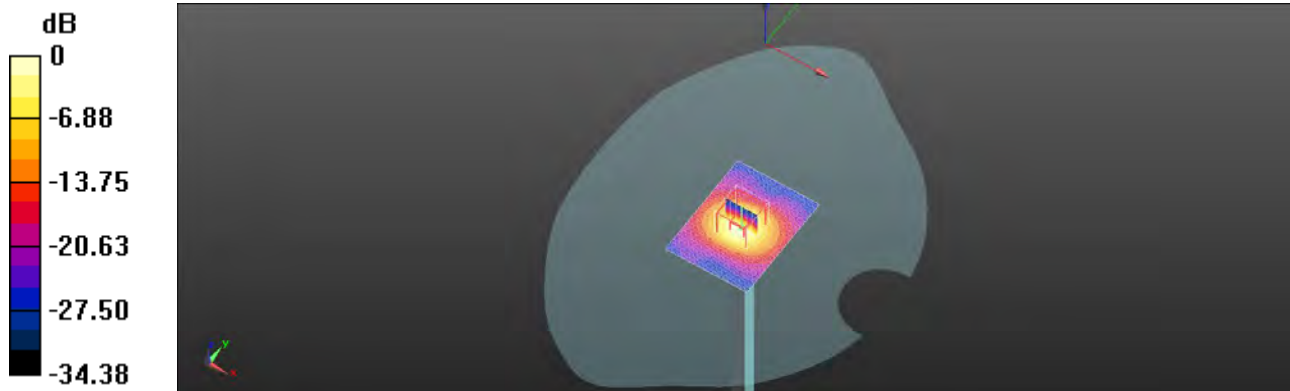
Peak SAR (extrapolated) = 39.7 W/kg

SAR(1 g) = 8.44 W/kg; SAR(10 g) = 2.35 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

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

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.95 dBW/kg

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Report No. :ES/2022/30012

Dipole 5750 MHz_SN:1023

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.176$ S/m; $\epsilon_r = 35.018$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: SAM
- 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) = 18.4 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 52.44 V/m; Power Drift = -0.04 dB

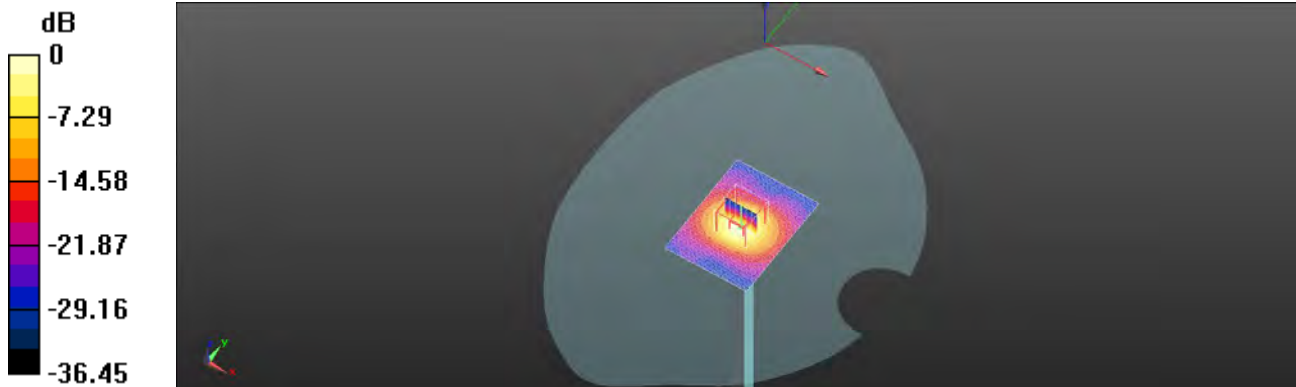
Peak SAR (extrapolated) = 36.3 W/kg

SAR(1 g) = 8.01 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.8%

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



0 dB = 18.2 W/kg = 12.55 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	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
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%	∞
Measurement drift (class A evaluation)									
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%	∞
Test Sample related									
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%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.07%	N	1	1	0.64	0.43	0.68%	0.46%	M
Liquid Conductivity (mea.)	0.85%	N	1	1	0.6	0.49	0.51%	0.42%	M
Combined standard uncertainty		RSS					11.75%	11.72%	
Expant uncertainty (95% confidence							23.49%	23.45%	

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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	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<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%	∞
Measurement drift (class A evaluation)									
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	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Mechanical restrictions									
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%	∞
Test Sample related									
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%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.15%	N	1	1	0.64	0.43	0.74%	0.49%	M
Liquid Conductivity (mea.)	1.36%	N	1	1	0.6	0.49	0.82%	0.67%	M
Combined standard uncertainty		RSS					11.47%	11.44%	
Expant uncertainty (95% confidence)							22.94%	22.88%	

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Appendixes

Refer to separated files for the following appendixes.

FCC SAR Part 1 Appendix A ES202230012

FCC SAR Part 1 Appendix B ES202230012

FCC SAR Part 1 Appendix C ES202230012

- End of report -

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