

## SAR TEST REPORT



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

<b>Equipment Under Test</b>	Notebook Computer
<b>Brand Name</b>	HP
<b>Model No.</b>	HSN-I22C
<b>Company Name</b>	HP Inc.
<b>Company Address</b>	1501 Page Mill Road, Palo Alto CA 94304 USA
<b>Standards</b>	IEEE/ANSI C95.1-1992, IEEE 1528-2013, KDB616217D04v01r02,KDB865664D01v01r04, KDB865664D02v01r02,KDB941225D01v03r01, KDB941225D05v02r05,KDB941225D05Av01r02, KDB447498D01v06, KDB248227D01v02r02
<b>FCC ID</b>	B94HNI22CPDJP
<b>Date of Receipt</b>	Nov. 26, 2018
<b>Date of Test(s)</b>	Jan. 04, 2019 ~ Jan. 24, 2019
<b>Date of Issue</b>	Jun. 05, 2019

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	Supervisor / Afu Chen	Asst. Manager / John Yeh
Ruby Ou	afu Chen	John Teh

Date: Jun. 05, 2019

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## Revision History

Report Number	Revision	Description	Issue Date
EN/2018/C0018	Rev.00	Initial creation of document	Feb. 01, 2019
EN/2018/C0018	Rev.01	Modify CH1.3/1.8	May. 15, 2019
EN/2018/C0018	Rev.02	Modify CH1.5 note	May. 21, 2019
EN/2018/C0018	Rev.03	Add section 1.6	Jun. 05, 2019

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# 1. General Information

## 1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
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Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	<a href="http://www.tw.sgs.com/">http://www.tw.sgs.com/</a>

## 1.2 Details of Applicant

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

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### 1.3 Description of EUT

Equipment Under Test	Notebook Computer	
Brand Name	HP	
Model No.	HSN-I22C	
Integrated Module	WLAN	Brand Name : Intel Model Name : 9560NGW FCC ID : B94-9560NGWC
	WWAN	Brand Name : Fibocom Model Name : L850-GL FCC ID : B94HNI22CPDJP
Mode of Operation	<input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> HSPA+ <input checked="" type="checkbox"/> DC-HSDPA <input checked="" type="checkbox"/> LTE FDD <input checked="" type="checkbox"/> LTE TDD <input checked="" type="checkbox"/> WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80/160M) <input checked="" type="checkbox"/> Bluetooth	
Duty Cycle	WCDMA	100%
	LTE FDD	100%
	LTE TDD	63.3%
	WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80/ 160M)	100%
	Bluetooth	100%
TX Frequency Range (MHz)	WCDMA Band II	1850 — 1910
	WCDMA Band IV	1710 — 1755
	WCDMA Band V	824 — 849
	LTE FDD Band 2	1850 — 1910
	LTE FDD Band 4	1710 — 1755
	LTE FDD Band 5	824 — 849
	LTE FDD Band 7	2500 — 2570
	LTE FDD Band 12	699 — 716
LTE FDD Band 13	777 — 787	

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TX Frequency Range (MHz)	LTE FDD Band 17	704	—	716
	LTE FDD Band 26	814	—	849
	LTE FDD Band 30	2305	—	2315
	LTE TDD Band 38	2570	—	2620
	LTE TDD Band 41	2496	—	2690
	LTE FDD Band 66	1710	—	1780
	WLAN802.11 b/g/n(20M)	2412	—	2472
	WLAN802.11 n(40M)	2422	—	2462
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	—	5240
	WLAN802.11 n(40M)/ac(40M) 5.2G	5190	—	5230
	WLAN802.11 ac(80M) 5.2G	5210		
	WLAN802.11 ac(160M) 5.2G	5250		
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260	—	5320
	WLAN802.11 n(40M)/ac(40M) 5.3G	5270	—	5310
	WLAN802.11 ac(80M) 5.3G	5290		
	WLAN802.11 a/n/ac(20M) 5.6G	5500	—	5720
	WLAN802.11 n/ac(40M) 5.6G	5510	—	5710
	WLAN802.11 ac(80M) 5.6G	5530	—	5690
	WLAN802.11 ac(160M) 5.6G	5570		
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	5745	—	5825
WLAN802.11 n(40M)/ac(40M) 5.8G	5755	—	5795	
WLAN802.11 ac(80M) 5.8G	5775			
Bluetooth	2402	—	2480	
Channel Number (ARFCN)	WCDMA Band II	9262	—	9538
	WCDMA Band IV	1312	—	1513
	WCDMA Band V	4132	—	4233
	LTE FDD Band 2	18607	—	19193
	LTE FDD Band 4	19957	—	20393
	LTE FDD Band 5	20407	—	20643
	LTE FDD Band 7	20775	—	21425

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Channel Number (ARFCN)	LTE FDD Band 12	23017	—	23173
	LTE FDD Band 13	23205	—	23255
	LTE FDD Band 17	23755	—	23825
	LTE FDD Band 26	26697	—	27033
	LTE FDD Band 30	27685	—	27735
	LTE TDD Band 38	37775	—	38225
	LTE TDD Band 41	39675	—	41565
	LTE FDD Band 66	131979	—	132665
	WLAN802.11 b/g/n(20M)	1	—	13
	WLAN802.11 n(40M)	3	—	11
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	36	—	48
	WLAN802.11 n(40M)/ac(40M) 5.2G	38	—	46
	WLAN802.11 ac(80M) 5.2G		42	
	WLAN802.11 ac(160M) 5.2G		50	
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	52	—	64
	WLAN802.11 n(40M)/ac(40M) 5.3G	54	—	62
	WLAN802.11 ac(80M) 5.3G		58	
	WLAN802.11 a/n/ac(20M) 5.6G	100	—	144
	WLAN802.11 n/ac(40M) 5.6G	102	—	142
	WLAN802.11 ac(80M) 5.6G	106	—	138
	WLAN802.11 ac(160M) 5.6G		114	
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	149	—	165
	WLAN802.11 n(40M)/ac(40M) 5.8G	151	—	159
WLAN802.11 ac(80M) 5.8G		155		
Bluetooth	0	—	78	

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**AWAN**

Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WCDMA Band II	1.33	1.35	9262	Top side
WCDMA Band IV	1.38	1.39	1513	Top side
WCDMA Band V	1.21	1.22	4132	Top side
LTE FDD Band 2	1.27	1.28	18700	Top side
LTE FDD Band 4	1.38	1.38	20300	Top side
LTE FDD Band 5	1.19	1.20	20450	Top side
LTE FDD Band 7	0.79	0.80	20850	Top side
LTE FDD Band 12	1.37	1.38	23130	Top side
LTE FDD Band 13	1.42	1.43	23230	Top side
LTE FDD Band 17	1.39	1.40	23780	Top side
LTE FDD Band 26	1.17	1.18	26865	Top side
LTE FDD Band 30	0.71	0.72	27710	Top side
LTE TDD Band 38	0.71	0.76	37850	Top side
LTE TDD Band 41	0.63	0.73	41490	Top side
LTE FDD Band 66	1.36	1.37	132572	Top side

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**HOHG-BO**

Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WCDMA Band II	1.38	1.39	9400	Top side
WCDMA Band IV	1.34	1.38	1412	Top side
WCDMA Band V	1.31	1.32	4132	Top side
LTE FDD Band 2	1.27	1.29	19100	Top side
LTE FDD Band 4	1.28	1.28	20300	Top side
LTE FDD Band 5	1.32	1.33	20450	Top side
LTE FDD Band 7	1.26	1.31	21100	Top side
LTE FDD Band 12	1.32	1.33	23095	Top side
LTE FDD Band 13	1.31	1.32	23230	Top side
LTE FDD Band 17	1.33	1.34	23780	Top side
LTE FDD Band 26	1.30	1.31	26865	Top side
LTE FDD Band 30	1.29	1.33	27710	Top side
LTE TDD Band 38	1.10	1.18	37850	Top side
LTE TDD Band 41	1.05	1.22	41490	Top side
LTE FDD Band 66	1.30	1.31	132572	Top side

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**AWAN**

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Main	WLAN 802.11b	0.72	0.72	1	Top side
	WLAN 802.11ac(80M) 5.2G	0.16	0.16	42	Top side
	WLAN 802.11ac(80M) 5.3G	0.18	0.18	58	Top side
	WLAN 802.11ac(80M) 5.6G	0.85	0.85	138	Top side
	WLAN 802.11ac(80M) 5.8G	0.85	0.85	155	Top side
Aux	WLAN 802.11b	0.78	0.78	1	Top side
	Bluetooth(GFSK)	0.11	0.21	78	Top side
	WLAN 802.11ac(80M) 5.2G	0.73	0.73	42	Top side
	WLAN 802.11ac(80M) 5.3G	0.62	0.62	58	Top side
	WLAN 802.11ac(80M) 5.6G	0.48	0.48	138	Top side
	WLAN 802.11ac(80M) 5.8G	0.59	0.59	155	Top side

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**HONG-BO**

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Main	WLAN 802.11b	0.73	0.73	1	Top side
	WLAN 802.11ac(80M) 5.2G	1.17	1.17	42	Top side
	WLAN 802.11ac(80M) 5.3G	1.19	1.19	58	Top side
	WLAN 802.11ac(80M) 5.6G	1.15	1.15	138	Top side
	WLAN 802.11ac(80M) 5.8G	1.12	1.13	155	Top side
Aux	WLAN 802.11b	0.94	0.94	1	Top side
	Bluetooth(GFSK)	0.10	0.19	78	Top side
	WLAN 802.11ac(80M) 5.2G	1.19	1.19	42	Top side
	WLAN 802.11ac(80M) 5.3G	0.98	0.98	58	Top side
	WLAN 802.11ac(80M) 5.6G	0.83	0.83	138	Top side
	WLAN 802.11ac(80M) 5.8G	0.76	0.76	155	Top side

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## Antenna Information WLAN

Tablet mode										
Vendor	HONG-BO									
Antenna	Main					Aux				
Part Number	6036B0233101(260-27273)					6036B0233001(260-27272)				
Frequency	2.4	5.2	5.3	5.6	5.8	2.4	5.2	5.3	5.6	5.8
Gain (dBi)	-2.89	-0.32	-1.11	-2.04	1.54	-1.07	-1.65	-1.65	-1.25	-0.03

NB mode										
Vendor	HONG-BO									
Antenna	Main					Aux				
Part Number	6036B0233101(260-27273)					6036B0233001(260-27272)				
Frequency	2.4	5.2	5.3	5.6	5.8	2.4	5.2	5.3	5.6	5.8
Gain (dBi)	0.49	2.58	2.18	1.48	1.19	-1.13	1.32	1.99	1.89	1.89

Tablet mode										
Vendor	AWAN Corporation									
Antenna	Main					Aux				
Part Number	6036B0234201(ANP6Y-100280)					6036B0234101(ANP6Y-100279)				
Frequency	2.4	5.2	5.3	5.6	5.8	2.4	5.2	5.3	5.6	5.8
Gain (dBi)	-3.21	0.29	-0.84	-0.18	-0.18	-3.68	-2.82	-2.44	-1.62	-1.27

NB mode										
Vendor	AWAN Corporation									
Antenna	Main					Aux				
Part Number	6036B0234201(ANP6Y-100280)					6036B0234101(ANP6Y-100279)				
Frequency	2.4	5.2	5.3	5.6	5.8	2.4	5.2	5.3	5.6	5.8
Gain (dBi)	-2.08	0.99	-0.17	-0.68	-1.44	0.18	-1.48	-1.36	0.25	0.44

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**WWAN**

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Awan	PIFA	Main	6036B0232901 (ANP6Y-100277)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-0.87
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.9
				WCDMA / HSPA Band V	826.4 ~ 846.6	-1.73
				LTE Band 2	1850 ~ 1910	-0.87
				LTE Band 4	1710 ~ 1755	-0.66
				LTE Band 5	824 ~ 849	-1.73
				LTE Band 7	2503 ~ 2560	-0.53
				LTE Band 12	699 ~ 716	-1.14
				LTE Band 13	777 ~ 787	-0.23
				LTE Band 17	704 ~ 716	-1.14
				LTE Band 26	824 ~ 849	-1.77
				LTE Band 26 Part 90S	814.7 ~ 823.3	-1.79
				LTE Band 30	2305 ~ 2315	1.92
				LTE Band 38	2573 ~ 2610	0.03
	LTE Band 41	2496 ~ 2690	0.03			
	LTE Band 66	1710 ~ 1780	-0.66			
	PIFA	Aux	6036B0232801 (ANP6Y-100278)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.76
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	0.76
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 17	704 ~ 716	N/A
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26 Part 90S	814.7 ~ 823.3	-2.6
LTE Band 30				2305 ~ 2315	1.23	
LTE Band 38				2573 ~ 2610	-0.33	
LTE Band 41	2496 ~ 2690	-0.33				
LTE Band 66	1710 ~ 1780	N/A				

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)			
HONG-BO	PIFA	Main	6036B0233801 (260-27270)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.79			
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.27			
				WCDMA / HSPA Band V	826.4 ~ 846.6	-2.06			
				LTE Band 2	1850 ~ 1910	0.85			
				LTE Band 4	1710 ~ 1755	-0.27			
				LTE Band 5	824 ~ 849	-2.06			
				LTE Band 7	2503 ~ 2560	1.25			
				LTE Band 12	699 ~ 716	-0.63			
				LTE Band 13	777 ~ 787	0.01			
				LTE Band 17	704 ~ 716	-0.97			
				LTE Band 26	824 ~ 849	-2.06			
				LTE Band 26 Part90S	814.7 ~ 823.3	-2.06			
				LTE Band 30	2305 ~ 2315	3.37			
				LTE Band 38	2570 ~ 2620	2.96			
				LTE Band 41	2496 ~ 2690	2.96			
				LTE Band 66	1710 ~ 1780	-0.27			
				PIFA	Aux	6036B0233901 (260-27271)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.97
							WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
	WCDMA / HSPA Band V	826.4 ~ 846.6	N/A						
	LTE Band 2	1850 ~ 1910	0.97						
	LTE Band 4	1710 ~ 1755	N/A						
	LTE Band 5	824 ~ 849	N/A						
	LTE Band 7	2503 ~ 2560	N/A						
	LTE Band 12	699 ~ 716	N/A						
	LTE Band 13	777 ~ 787	N/A						
	LTE Band 17	704 ~ 716	N/A						
	LTE Band 26	824 ~ 849	N/A						
	LTE Band 26 Part90S	814.7 ~ 823.3	-5.57						
	LTE Band 30	2305 ~ 2315	-1.28						
	LTE Band 38	2570 ~ 2620	-4.32						
	LTE Band 41	2496 ~ 2690	-0.95						
	LTE Band 66	1710 ~ 1780	N/A						

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**WCDMA Band II / Band IV / Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA  
conducted power table (Full power):**
**Unit: dBm**

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		<b>24.50</b>		
3GPP Rel 99	RMC 12.2Kbps	23.37	23.56	23.12
3GPP Rel 5	HSDPA Subtest-1	23.21	23.53	23.09
	HSDPA Subtest-2	22.26	22.59	22.06
	HSDPA Subtest-3	21.84	22.08	21.61
	HSDPA Subtest-4	21.59	21.83	21.35
3GPP Rel 6	HSUPA Subtest-1	22.75	23.02	22.59
	HSUPA Subtest-2	23.26	23.49	23.09
	HSUPA Subtest-3	21.75	21.96	21.55
	HSUPA Subtest-4	23.26	23.51	23.06
	HSUPA Subtest-5	22.28	22.49	22.08
3GPP Rel 7	HSPA+ Subtest-1	22.35	22.52	22.06
3GPP Rel 8	DC-HSDPA Subtest-1	23.28	23.49	23.08
	DC-HSDPA Subtest-2	22.31	22.47	22.03
	DC-HSDPA Subtest-3	21.84	22.04	21.55
	DC-HSDPA Subtest-4	21.79	22.02	21.61

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Band		WCDMA IV		
TX Channel		1312	1412	1513
Frequency (MHz)		1712.4	1732.4	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		<b>24.50</b>		
3GPP Rel 99	RMC 12.2Kbps	23.09	23.12	23.31
3GPP Rel 5	HSDPA Subtest-1	23.04	23.03	23.28
	HSDPA Subtest-2	22.03	22.15	22.36
	HSDPA Subtest-3	21.54	21.65	21.87
	HSDPA Subtest-4	21.29	21.43	21.58
3GPP Rel 6	HSUPA Subtest-1	22.56	22.61	22.79
	HSUPA Subtest-2	23.06	23.09	23.29
	HSUPA Subtest-3	21.55	21.61	21.76
	HSUPA Subtest-4	23.07	23.09	23.28
	HSUPA Subtest-5	22.09	22.11	22.28
3GPP Rel 7	HSPA+ Subtest-1	22.00	22.06	22.25
3GPP Rel 8	DC-HSDPA Subtest-1	23.05	23.08	23.24
	DC-HSDPA Subtest-2	22.00	22.02	22.28
	DC-HSDPA Subtest-3	21.53	21.57	21.80
	DC-HSDPA Subtest-4	21.54	21.52	21.72
Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		<b>24.50</b>		
3GPP Rel 99	RMC 12.2Kbps	23.55	23.38	23.43
3GPP Rel 5	HSDPA Subtest-1	23.52	23.34	23.42
	HSDPA Subtest-2	22.55	22.88	22.51
	HSDPA Subtest-3	22.04	22.43	22.02
	HSDPA Subtest-4	21.79	22.18	21.76
3GPP Rel 6	HSUPA Subtest-1	22.99	23.37	22.95
	HSUPA Subtest-2	23.49	23.35	23.42
	HSUPA Subtest-3	21.99	22.41	21.97
	HSUPA Subtest-4	23.47	23.35	23.37
	HSUPA Subtest-5	22.49	22.88	22.41
3GPP Rel 7	HSPA+ Subtest-1	22.54	22.36	22.34
3GPP Rel 8	DC-HSDPA Subtest-1	23.47	23.36	23.33
	DC-HSDPA Subtest-2	22.50	22.32	22.35
	DC-HSDPA Subtest-3	21.95	21.82	21.84
	DC-HSDPA Subtest-4	21.96	21.79	21.88

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**WCDMA Band II / Band IV / Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA  
conducted power table(Reduced power):**
**Unit: dBm**

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		<b>19.00</b>		
3GPP Rel 99	RMC 12.2Kbps	18.95	18.97	18.86
3GPP Rel 5	HSDPA Subtest-1	18.76	18.95	18.72
	HSDPA Subtest-2	17.88	17.92	17.70
	HSDPA Subtest-3	17.56	17.45	17.36
	HSDPA Subtest-4	17.23	17.17	17.07
3GPP Rel 6	HSUPA Subtest-1	18.84	18.91	18.77
	HSUPA Subtest-2	17.37	17.30	17.19
	HSUPA Subtest-3	17.95	17.76	17.80
	HSUPA Subtest-4	17.31	17.22	17.20
	HSUPA Subtest-5	18.92	18.93	18.70
3GPP Rel 7	HSPA+ Subtest-1	17.91	17.90	17.70
3GPP Rel 8	DC-HSDPA Subtest-1	18.87	18.82	18.72
	DC-HSDPA Subtest-2	17.98	17.85	17.67
	DC-HSDPA Subtest-3	17.43	17.47	17.30
	DC-HSDPA Subtest-4	17.49	17.33	17.28

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Band		WCDMA IV		
TX Channel		1312	1412	1513
Frequency (MHz)		1712.4	1732.4	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		19.50		
3GPP Rel 99	RMC 12.2Kbps	19.28	19.37	19.48
3GPP Rel 5	HSDPA Subtest-1	19.18	19.18	19.38
	HSDPA Subtest-2	18.11	18.35	18.39
	HSDPA Subtest-3	17.70	17.95	17.92
	HSDPA Subtest-4	17.41	17.64	17.76
3GPP Rel 6	HSUPA Subtest-1	19.14	19.28	19.37
	HSUPA Subtest-2	17.79	17.77	17.94
	HSUPA Subtest-3	18.74	18.80	18.92
	HSUPA Subtest-4	17.73	17.90	17.83
	HSUPA Subtest-5	19.13	19.31	19.32
3GPP Rel 7	HSPA+ Subtest-1	18.06	18.32	18.40
3GPP Rel 8	DC-HSDPA Subtest-1	19.12	19.31	19.39
	DC-HSDPA Subtest-2	18.17	18.34	18.47
	DC-HSDPA Subtest-3	17.63	17.87	17.87
	DC-HSDPA Subtest-4	17.78	17.86	17.76
Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		21.00		
3GPP Rel 99	RMC 12.2Kbps	20.98	20.92	20.95
3GPP Rel 5	HSDPA Subtest-1	20.87	20.74	20.82
	HSDPA Subtest-2	19.90	20.38	19.91
	HSDPA Subtest-3	19.33	19.88	19.44
	HSDPA Subtest-4	19.07	19.76	19.26
3GPP Rel 6	HSUPA Subtest-1	20.82	20.76	20.77
	HSUPA Subtest-2	19.41	19.94	19.43
	HSUPA Subtest-3	19.80	20.43	19.89
	HSUPA Subtest-4	19.36	19.82	19.37
	HSUPA Subtest-5	20.85	20.88	20.72
3GPP Rel 7	HSPA+ Subtest-1	19.85	19.93	19.79
3GPP Rel 8	DC-HSDPA Subtest-1	20.74	20.83	20.70
	DC-HSDPA Subtest-2	19.85	19.78	19.73
	DC-HSDPA Subtest-3	19.22	19.27	19.37
	DC-HSDPA Subtest-4	19.37	19.33	19.29

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## Sub-Test for HSDPA

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

## Sub-Test for HSUPA

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

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**LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 17 / Band 26 / Band 30 / Band 66 power table (Full power):**

FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	1860	18700	22.93	24	0	
				1880	18900	22.63	24	0	
				1900	19100	22.23	24	0	
			50	1860	18700	22.60	24	0	
				1880	18900	22.88	24	0	
				1900	19100	22.56	24	0	
			99	1860	18700	22.69	24	0	
				1880	18900	22.92	24	0	
				1900	19100	22.52	24	0	
		50 RB	0	1860	18700	22.10	23	0-1	
				1880	18900	22.45	23	0-1	
				1900	19100	22.03	23	0-1	
			25	1860	18700	22.13	23	0-1	
				1880	18900	22.37	23	0-1	
				1900	19100	22.12	23	0-1	
			50	1860	18700	22.29	23	0-1	
				1880	18900	22.24	23	0-1	
				1900	19100	22.09	23	0-1	
		100RB	1860	18700	22.30	23	0-1		
			1880	18900	22.47	23	0-1		
			1900	19100	22.38	23	0-1		
		16-QAM	1 RB	0	1860	18700	22.44	23	0-1
					1880	18900	22.73	23	0-1
					1900	19100	22.26	23	0-1
	50			1860	18700	22.36	23	0-1	
				1880	18900	22.56	23	0-1	
				1900	19100	22.36	23	0-1	
	99			1860	18700	22.68	23	0-1	
				1880	18900	22.30	23	0-1	
				1900	19100	21.97	23	0-1	
	50 RB			0	1860	18700	21.13	22	0-2
					1880	18900	21.47	22	0-2
					1900	19100	21.07	22	0-2
			25	1860	18700	21.16	22	0-2	
				1880	18900	21.37	22	0-2	
				1900	19100	21.14	22	0-2	
			50	1860	18700	21.31	22	0-2	
				1880	18900	21.24	22	0-2	
				1900	19100	21.14	22	0-2	
			100RB	1860	18700	21.30	22	0-2	
				1880	18900	21.46	22	0-2	
				1900	19100	21.36	22	0-2	

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	1857.5	18675	22.59	24	0	
				1880	18900	22.87	24	0	
				1902.5	19125	22.37	24	0	
			36	1857.5	18675	22.46	24	0	
				1880	18900	22.79	24	0	
				1902.5	19125	22.50	24	0	
		74	1857.5	18675	22.75	24	0		
			1880	18900	22.47	24	0		
			1902.5	19125	22.10	24	0		
		36 RB	0	1857.5	18675	21.98	23	0-1	
				1880	18900	22.38	23	0-1	
				1902.5	19125	21.94	23	0-1	
			18	1857.5	18675	22.10	23	0-1	
				1880	18900	22.35	23	0-1	
				1902.5	19125	22.03	23	0-1	
			37	1857.5	18675	22.22	23	0-1	
				1880	18900	22.16	23	0-1	
				1902.5	19125	21.95	23	0-1	
			75RB	1857.5	18675	22.21	23	0-1	
				1880	18900	22.26	23	0-1	
				1902.5	19125	22.25	23	0-1	
		16-QAM	1 RB	0	1857.5	18675	22.39	23	0-1
					1880	18900	22.70	23	0-1
					1902.5	19125	22.20	23	0-1
	36			1857.5	18675	22.18	23	0-1	
				1880	18900	22.52	23	0-1	
				1902.5	19125	22.27	23	0-1	
	74			1857.5	18675	22.63	23	0-1	
				1880	18900	22.26	23	0-1	
				1902.5	19125	21.93	23	0-1	
	36 RB			0	1857.5	18675	20.97	22	0-2
					1880	18900	21.30	22	0-2
					1902.5	19125	21.00	22	0-2
			18	1857.5	18675	21.04	22	0-2	
				1880	18900	21.19	22	0-2	
				1902.5	19125	21.04	22	0-2	
			37	1857.5	18675	21.17	22	0-2	
				1880	18900	21.12	22	0-2	
				1902.5	19125	21.12	22	0-2	
			75RB	1857.5	18675	21.17	22	0-2	
				1880	18900	21.43	22	0-2	
				1902.5	19125	21.20	22	0-2	

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	1855	18650	22.42	24	0	
				1880	18900	22.76	24	0	
				1905	19150	22.31	24	0	
			25	1855	18650	22.35	24	0	
				1880	18900	22.66	24	0	
				1905	19150	22.46	24	0	
			49	1855	18650	22.71	24	0	
				1880	18900	22.27	24	0	
				1905	19150	22.17	24	0	
		25 RB	0	1855	18650	21.77	23	0-1	
				1880	18900	22.23	23	0-1	
				1905	19150	21.92	23	0-1	
			12	1855	18650	21.90	23	0-1	
				1880	18900	22.26	23	0-1	
				1905	19150	21.88	23	0-1	
			25	1855	18650	22.13	23	0-1	
				1880	18900	22.03	23	0-1	
				1905	19150	21.81	23	0-1	
		50RB	1855	18650	22.09	23	0-1		
			1880	18900	22.21	23	0-1		
			1905	19150	22.15	23	0-1		
		16-QAM	1 RB	0	1855	18650	22.32	23	0-1
					1880	18900	22.51	23	0-1
					1905	19150	22.03	23	0-1
	25			1855	18650	22.12	23	0-1	
				1880	18900	22.41	23	0-1	
				1905	19150	22.20	23	0-1	
	49			1855	18650	22.42	23	0-1	
				1880	18900	22.23	23	0-1	
				1905	19150	21.90	23	0-1	
	25 RB			0	1855	18650	20.88	22	0-2
					1880	18900	21.26	22	0-2
					1905	19150	20.91	22	0-2
			12	1855	18650	21.00	22	0-2	
				1880	18900	21.04	22	0-2	
				1905	19150	20.90	22	0-2	
			25	1855	18650	20.96	22	0-2	
				1880	18900	21.06	22	0-2	
				1905	19150	21.04	22	0-2	
	50RB		1855	18650	20.98	22	0-2		
			1880	18900	21.37	22	0-2		
			1905	19150	21.12	22	0-2		

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	1852.5	18625	22.22	24	0	
				1880	18900	22.60	24	0	
				1907.5	19175	22.19	24	0	
			12	1852.5	18625	22.22	24	0	
				1880	18900	22.45	24	0	
				1907.5	19175	22.33	24	0	
			24	1852.5	18625	22.62	24	0	
				1880	18900	22.10	24	0	
				1907.5	19175	22.12	24	0	
		12 RB	0	1852.5	18625	21.58	23	0-1	
				1880	18900	22.11	23	0-1	
				1907.5	19175	21.86	23	0-1	
			6	1852.5	18625	21.87	23	0-1	
				1880	18900	22.14	23	0-1	
				1907.5	19175	21.75	23	0-1	
			13	1852.5	18625	22.08	23	0-1	
				1880	18900	21.90	23	0-1	
				1907.5	19175	21.68	23	0-1	
		25RB	1852.5	18625	21.95	23	0-1		
			1880	18900	22.17	23	0-1		
			1907.5	19175	22.04	23	0-1		
		16-QAM	1 RB	0	1852.5	18625	22.12	23	0-1
					1880	18900	22.47	23	0-1
					1907.5	19175	21.87	23	0-1
				12	1852.5	18625	22.08	23	0-1
					1880	18900	22.21	23	0-1
					1907.5	19175	22.01	23	0-1
	24			1852.5	18625	22.24	23	0-1	
				1880	18900	22.14	23	0-1	
				1907.5	19175	21.78	23	0-1	
	12 RB		0	1852.5	18625	20.75	22	0-2	
				1880	18900	21.16	22	0-2	
				1907.5	19175	20.83	22	0-2	
			6	1852.5	18625	20.81	22	0-2	
				1880	18900	20.92	22	0-2	
				1907.5	19175	20.73	22	0-2	
			13	1852.5	18625	20.89	22	0-2	
				1880	18900	21.01	22	0-2	
				1907.5	19175	21.01	22	0-2	
	25RB		1852.5	18625	20.86	22	0-2		
			1880	18900	21.17	22	0-2		
			1907.5	19175	20.95	22	0-2		

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	1851.5	18615	22.09	24	0	
				1880	18900	22.49	24	0	
				1908.5	19185	22.06	24	0	
			7	1851.5	18615	22.06	24	0	
				1880	18900	22.24	24	0	
				1908.5	19185	22.26	24	0	
			14	1851.5	18615	22.51	24	0	
				1880	18900	22.08	24	0	
				1908.5	19185	22.00	24	0	
		8 RB	0	1851.5	18615	21.42	23	0-1	
				1880	18900	22.07	23	0-1	
				1908.5	19185	21.70	23	0-1	
			4	1851.5	18615	21.69	23	0-1	
				1880	18900	22.12	23	0-1	
				1908.5	19185	21.59	23	0-1	
			7	1851.5	18615	21.87	23	0-1	
				1880	18900	21.71	23	0-1	
				1908.5	19185	21.54	23	0-1	
		15RB	1851.5	18615	21.83	23	0-1		
			1880	18900	22.02	23	0-1		
			1908.5	19185	22.02	23	0-1		
		16-QAM	1 RB	0	1851.5	18615	21.92	23	0-1
					1880	18900	22.34	23	0-1
					1908.5	19185	21.80	23	0-1
	7			1851.5	18615	21.94	23	0-1	
				1880	18900	22.12	23	0-1	
				1908.5	19185	21.89	23	0-1	
	14			1851.5	18615	22.11	23	0-1	
				1880	18900	21.93	23	0-1	
				1908.5	19185	21.61	23	0-1	
	8 RB			0	1851.5	18615	20.70	22	0-2
					1880	18900	21.01	22	0-2
					1908.5	19185	20.76	22	0-2
			4	1851.5	18615	20.63	22	0-2	
				1880	18900	20.82	22	0-2	
				1908.5	19185	20.56	22	0-2	
			7	1851.5	18615	20.74	22	0-2	
				1880	18900	20.90	22	0-2	
				1908.5	19185	20.93	22	0-2	
	15RB		1851.5	18615	20.70	22	0-2		
			1880	18900	21.08	22	0-2		
			1908.5	19185	20.82	22	0-2		

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1850.7	18607	22.64	24	0	
				1880	18900	22.91	24	0	
				1909.3	19193	22.19	24	0	
			2	1850.7	18607	22.59	24	0	
				1880	18900	22.88	24	0	
				1909.3	19193	22.15	24	0	
			5	1850.7	18607	22.62	24	0	
				1880	18900	22.91	24	0	
				1909.3	19193	22.18	24	0	
		3 RB	0	1850.7	18607	22.57	23	0-1	
				1880	18900	22.89	23	0-1	
				1909.3	19193	22.11	23	0-1	
			2	1850.7	18607	22.55	23	0-1	
				1880	18900	22.87	23	0-1	
				1909.3	19193	22.09	23	0-1	
			3	1850.7	18607	22.56	23	0-1	
				1880	18900	22.87	23	0-1	
				1909.3	19193	22.09	23	0-1	
		6RB	1850.7	18607	22.06	23	0-1		
			1880	18900	22.37	23	0-1		
			1909.3	19193	21.55	23	0-1		
		16-QAM	1 RB	0	1850.7	18607	22.22	23	0-1
					1880	18900	22.62	23	0-1
					1909.3	19193	21.83	23	0-1
	2			1850.7	18607	22.24	23	0-1	
				1880	18900	22.70	23	0-1	
				1909.3	19193	21.68	23	0-1	
	5			1850.7	18607	22.26	23	0-1	
				1880	18900	22.76	23	0-1	
				1909.3	19193	21.78	23	0-1	
	3 RB			0	1850.7	18607	22.15	23	0-1
					1880	18900	22.54	23	0-1
					1909.3	19193	21.61	23	0-1
			2	1850.7	18607	22.12	23	0-1	
				1880	18900	22.46	23	0-1	
				1909.3	19193	21.54	23	0-1	
			3	1850.7	18607	22.13	23	0-1	
				1880	18900	22.47	23	0-1	
				1909.3	19193	21.66	23	0-1	
	6RB		1850.7	18607	21.11	22	0-2		
			1880	18900	21.43	22	0-2		
			1909.3	19193	20.59	22	0-2		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	1720	20050	23.37	24	0	
				1732.5	20175	23.45	24	0	
				1745	20300	23.79	24	0	
			50	1720	20050	23.59	24	0	
				1732.5	20175	23.38	24	0	
				1745	20300	23.57	24	0	
			99	1720	20050	23.62	24	0	
				1732.5	20175	23.55	24	0	
				1745	20300	23.45	24	0	
		50 RB	0	1720	20050	22.77	23	0-1	
				1732.5	20175	22.45	23	0-1	
				1745	20300	22.44	23	0-1	
			25	1720	20050	22.65	23	0-1	
				1732.5	20175	22.44	23	0-1	
				1745	20300	22.59	23	0-1	
			50	1720	20050	22.49	23	0-1	
				1732.5	20175	22.41	23	0-1	
				1745	20300	22.80	23	0-1	
		100RB	1720	20050	22.75	23	0-1		
			1732.5	20175	22.55	23	0-1		
			1745	20300	22.77	23	0-1		
		16-QAM	1 RB	0	1720	20050	22.89	23	0-1
					1732.5	20175	22.83	23	0-1
					1745	20300	22.62	23	0-1
	50			1720	20050	22.88	23	0-1	
				1732.5	20175	22.65	23	0-1	
				1745	20300	22.79	23	0-1	
	99			1720	20050	22.65	23	0-1	
				1732.5	20175	22.55	23	0-1	
				1745	20300	22.91	23	0-1	
	50 RB			0	1720	20050	21.82	22	0-2
					1732.5	20175	21.50	22	0-2
					1745	20300	21.48	22	0-2
			25	1720	20050	21.68	22	0-2	
				1732.5	20175	21.48	22	0-2	
				1745	20300	21.61	22	0-2	
			50	1720	20050	21.54	22	0-2	
				1732.5	20175	21.44	22	0-2	
				1745	20300	21.83	22	0-2	
			100RB	1720	20050	21.76	22	0-2	
				1732.5	20175	21.59	22	0-2	
				1745	20300	21.76	22	0-2	

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	1717.5	20025	23.43	24	0	
				1732.5	20175	23.36	24	0	
				1747.5	20325	23.36	24	0	
			36	1717.5	20025	23.46	24	0	
				1732.5	20175	23.27	24	0	
				1747.5	20325	23.53	24	0	
			74	1717.5	20025	23.18	24	0	
				1732.5	20175	23.40	24	0	
				1747.5	20325	23.68	24	0	
		36 RB	0	1717.5	20025	22.70	23	0-1	
				1732.5	20175	22.33	23	0-1	
				1747.5	20325	22.29	23	0-1	
			18	1717.5	20025	22.61	23	0-1	
				1732.5	20175	22.40	23	0-1	
				1747.5	20325	22.42	23	0-1	
			37	1717.5	20025	22.46	23	0-1	
				1732.5	20175	22.36	23	0-1	
				1747.5	20325	22.61	23	0-1	
		75RB	1717.5	20025	22.69	23	0-1		
			1732.5	20175	22.51	23	0-1		
			1747.5	20325	22.72	23	0-1		
		16-QAM	1 RB	0	1717.5	20025	22.71	23	0-1
					1732.5	20175	22.80	23	0-1
					1747.5	20325	22.60	23	0-1
	36			1717.5	20025	22.83	23	0-1	
				1732.5	20175	22.46	23	0-1	
				1747.5	20325	22.72	23	0-1	
	74			1717.5	20025	22.55	23	0-1	
				1732.5	20175	22.38	23	0-1	
				1747.5	20325	22.74	23	0-1	
	36 RB			0	1717.5	20025	21.65	22	0-2
					1732.5	20175	21.29	22	0-2
					1747.5	20325	21.42	22	0-2
			18	1717.5	20025	21.62	22	0-2	
				1732.5	20175	21.37	22	0-2	
				1747.5	20325	21.42	22	0-2	
			37	1717.5	20025	21.42	22	0-2	
				1732.5	20175	21.24	22	0-2	
				1747.5	20325	21.66	22	0-2	
	75RB		1717.5	20025	21.66	22	0-2		
			1732.5	20175	21.42	22	0-2		
			1747.5	20325	21.67	22	0-2		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	1715	20000	23.39	24	0	
				1732.5	20175	23.34	24	0	
				1750	20350	23.29	24	0	
			25	1715	20000	23.33	24	0	
				1732.5	20175	23.10	24	0	
				1750	20350	23.39	24	0	
			49	1715	20000	23.07	24	0	
				1732.5	20175	23.36	24	0	
				1750	20350	23.64	24	0	
		25 RB	0	1715	20000	22.62	23	0-1	
				1732.5	20175	22.25	23	0-1	
				1750	20350	22.17	23	0-1	
			12	1715	20000	22.50	23	0-1	
				1732.5	20175	22.24	23	0-1	
				1750	20350	22.27	23	0-1	
			25	1715	20000	22.35	23	0-1	
				1732.5	20175	22.19	23	0-1	
				1750	20350	22.43	23	0-1	
		50RB	1715	20000	22.60	23	0-1		
			1732.5	20175	22.40	23	0-1		
			1750	20350	22.67	23	0-1		
		16-QAM	1 RB	0	1715	20000	22.67	23	0-1
					1732.5	20175	22.62	23	0-1
					1750	20350	22.42	23	0-1
	25			1715	20000	22.69	23	0-1	
				1732.5	20175	22.34	23	0-1	
				1750	20350	22.51	23	0-1	
	49			1715	20000	22.51	23	0-1	
				1732.5	20175	22.33	23	0-1	
				1750	20350	22.64	23	0-1	
	25 RB			0	1715	20000	21.59	22	0-2
					1732.5	20175	21.08	22	0-2
					1750	20350	21.37	22	0-2
			12	1715	20000	21.41	22	0-2	
				1732.5	20175	21.31	22	0-2	
				1750	20350	21.24	22	0-2	
			25	1715	20000	21.40	22	0-2	
				1732.5	20175	21.18	22	0-2	
				1750	20350	21.63	22	0-2	
	50RB		1715	20000	21.52	22	0-2		
			1732.5	20175	21.29	22	0-2		
			1750	20350	21.60	22	0-2		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	1712.5	19975	23.21	24	0	
				1732.5	20175	23.26	24	0	
				1752.5	20375	23.25	24	0	
			12	1712.5	19975	23.31	24	0	
				1732.5	20175	23.03	24	0	
				1752.5	20375	23.24	24	0	
		24	1712.5	19975	22.98	24	0		
			1732.5	20175	23.20	24	0		
			1752.5	20375	23.60	24	0		
		12 RB	0	1712.5	19975	22.51	23	0-1	
				1732.5	20175	22.06	23	0-1	
				1752.5	20375	22.09	23	0-1	
			6	1712.5	19975	22.44	23	0-1	
				1732.5	20175	22.12	23	0-1	
				1752.5	20375	22.25	23	0-1	
			13	1712.5	19975	22.29	23	0-1	
				1732.5	20175	22.12	23	0-1	
				1752.5	20375	22.26	23	0-1	
		25RB	1712.5	19975	22.45	23	0-1		
			1732.5	20175	22.30	23	0-1		
			1752.5	20375	22.54	23	0-1		
		16-QAM	1 RB	0	1712.5	19975	22.47	23	0-1
					1732.5	20175	22.59	23	0-1
					1752.5	20375	22.35	23	0-1
	12			1712.5	19975	22.57	23	0-1	
				1732.5	20175	22.23	23	0-1	
				1752.5	20375	22.41	23	0-1	
	24			1712.5	19975	22.49	23	0-1	
				1732.5	20175	22.30	23	0-1	
				1752.5	20375	22.59	23	0-1	
	12 RB			0	1712.5	19975	21.50	22	0-2
					1732.5	20175	20.88	22	0-2
					1752.5	20375	21.22	22	0-2
			6	1712.5	19975	21.39	22	0-2	
				1732.5	20175	21.22	22	0-2	
				1752.5	20375	21.14	22	0-2	
			13	1712.5	19975	21.26	22	0-2	
				1732.5	20175	21.13	22	0-2	
				1752.5	20375	21.53	22	0-2	
	25RB		1712.5	19975	21.44	22	0-2		
			1732.5	20175	21.27	22	0-2		
			1752.5	20375	21.48	22	0-2		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	1711.5	19965	23.02	24	0	
				1732.5	20175	23.07	24	0	
				1753.5	20385	23.23	24	0	
			7	1711.5	19965	23.28	24	0	
				1732.5	20175	22.88	24	0	
				1753.5	20385	23.12	24	0	
		14	1711.5	19965	22.89	24	0		
			1732.5	20175	23.09	24	0		
			1753.5	20385	23.47	24	0		
		8 RB	0	1711.5	19965	22.45	23	0-1	
				1732.5	20175	22.01	23	0-1	
				1753.5	20385	22.02	23	0-1	
			4	1711.5	19965	22.30	23	0-1	
				1732.5	20175	21.92	23	0-1	
				1753.5	20385	22.05	23	0-1	
		7	1711.5	19965	22.26	23	0-1		
			1732.5	20175	22.01	23	0-1		
			1753.5	20385	22.15	23	0-1		
		15RB	1711.5	19965	22.24	23	0-1		
			1732.5	20175	22.17	23	0-1		
			1753.5	20385	22.35	23	0-1		
		16-QAM	1 RB	0	1711.5	19965	22.43	23	0-1
					1732.5	20175	22.46	23	0-1
					1753.5	20385	22.17	23	0-1
	7			1711.5	19965	22.55	23	0-1	
				1732.5	20175	22.14	23	0-1	
				1753.5	20385	22.24	23	0-1	
	14		1711.5	19965	22.28	23	0-1		
			1732.5	20175	22.18	23	0-1		
			1753.5	20385	22.43	23	0-1		
	8 RB		0	1711.5	19965	21.43	22	0-2	
				1732.5	20175	20.78	22	0-2	
				1753.5	20385	21.16	22	0-2	
			4	1711.5	19965	21.21	22	0-2	
				1732.5	20175	21.15	22	0-2	
				1753.5	20385	21.04	22	0-2	
	7		1711.5	19965	21.06	22	0-2		
			1732.5	20175	20.96	22	0-2		
			1753.5	20385	21.37	22	0-2		
	15RB		1711.5	19965	21.35	22	0-2		
			1732.5	20175	21.25	22	0-2		
			1753.5	20385	21.46	22	0-2		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1710.7	19957	23.49	24	0	
				1732.5	20175	23.32	24	0	
				1754.3	20393	23.76	24	0	
			2	1710.7	19957	23.47	24	0	
				1732.5	20175	23.30	24	0	
				1754.3	20393	23.74	24	0	
			5	1710.7	19957	23.51	24	0	
				1732.5	20175	23.31	24	0	
				1754.3	20393	23.78	24	0	
		3 RB	0	1710.7	19957	22.90	23	0-1	
				1732.5	20175	22.70	23	0-1	
				1754.3	20393	22.94	23	0-1	
			2	1710.7	19957	22.98	23	0-1	
				1732.5	20175	22.93	23	0-1	
				1754.3	20393	22.95	23	0-1	
			3	1710.7	19957	22.90	23	0-1	
				1732.5	20175	22.83	23	0-1	
				1754.3	20393	22.97	23	0-1	
		6RB	1710.7	19957	22.50	23	0-1		
			1732.5	20175	22.35	23	0-1		
			1754.3	20393	22.80	23	0-1		
		16-QAM	1 RB	0	1710.7	19957	22.75	23	0-1
					1732.5	20175	22.46	23	0-1
					1754.3	20393	22.96	23	0-1
	2			1710.7	19957	22.71	23	0-1	
				1732.5	20175	22.48	23	0-1	
				1754.3	20393	22.90	23	0-1	
	5			1710.7	19957	22.76	23	0-1	
				1732.5	20175	22.61	23	0-1	
				1754.3	20393	22.99	23	0-1	
	3 RB			0	1710.7	19957	22.53	23	0-1
					1732.5	20175	22.31	23	0-1
					1754.3	20393	22.88	23	0-1
			2	1710.7	19957	22.51	23	0-1	
				1732.5	20175	22.40	23	0-1	
				1754.3	20393	22.86	23	0-1	
			3	1710.7	19957	22.57	23	0-1	
				1732.5	20175	22.39	23	0-1	
				1754.3	20393	22.82	23	0-1	
	6RB		1710.7	19957	21.58	22	0-2		
			1732.5	20175	21.42	22	0-2		
			1754.3	20393	21.79	22	0-2		

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	829	20450	23.99	25	0	
				836.5	20525	23.98	25	0	
				844	20600	23.97	25	0	
			25	829	20450	23.90	25	0	
				836.5	20525	23.95	25	0	
				844	20600	23.78	25	0	
			49	829	20450	23.96	25	0	
				836.5	20525	23.93	25	0	
				844	20600	23.95	25	0	
		25 RB	0	829	20450	23.06	24	0-1	
				836.5	20525	23.05	24	0-1	
				844	20600	22.99	24	0-1	
			12	829	20450	23.03	24	0-1	
				836.5	20525	23.04	24	0-1	
				844	20600	23.00	24	0-1	
			25	829	20450	23.08	24	0-1	
				836.5	20525	23.06	24	0-1	
				844	20600	23.09	24	0-1	
		50RB	829	20450	23.06	24	0-1		
			836.5	20525	23.04	24	0-1		
			844	20600	23.11	24	0-1		
		16-QAM	1 RB	0	829	20450	23.26	24	0-1
					836.5	20525	23.26	24	0-1
					844	20600	23.27	24	0-1
	25			829	20450	23.11	24	0-1	
				836.5	20525	23.23	24	0-1	
				844	20600	23.08	24	0-1	
	49			829	20450	23.29	24	0-1	
				836.5	20525	23.18	24	0-1	
				844	20600	23.32	24	0-1	
	25 RB			0	829	20450	22.15	23	0-2
					836.5	20525	22.11	23	0-2
					844	20600	22.10	23	0-2
			12	829	20450	22.10	23	0-2	
				836.5	20525	22.11	23	0-2	
				844	20600	22.06	23	0-2	
			25	829	20450	22.15	23	0-2	
				836.5	20525	22.16	23	0-2	
				844	20600	22.17	23	0-2	
	500RB		829	20450	22.14	23	0-2		
			836.5	20525	22.13	23	0-2		
			844	20600	22.15	23	0-2		

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	826.5	20425	23.84	25	0	
				836.5	20525	23.88	25	0	
				846.5	20625	23.87	25	0	
			12	826.5	20425	23.78	25	0	
				836.5	20525	23.79	25	0	
				846.5	20625	23.63	25	0	
			24	826.5	20425	23.87	25	0	
				836.5	20525	23.84	25	0	
				846.5	20625	23.96	25	0	
		12 RB	0	826.5	20425	22.90	24	0-1	
				836.5	20525	22.96	24	0-1	
				846.5	20625	22.89	24	0-1	
			6	826.5	20425	22.96	24	0-1	
				836.5	20525	22.94	24	0-1	
				846.5	20625	22.98	24	0-1	
			13	826.5	20425	22.91	24	0-1	
				836.5	20525	22.99	24	0-1	
				846.5	20625	23.07	24	0-1	
		25RB	826.5	20425	23.01	24	0-1		
			836.5	20525	23.00	24	0-1		
			846.5	20625	22.91	24	0-1		
		16-QAM	1 RB	0	826.5	20425	23.18	24	0-1
					836.5	20525	23.11	24	0-1
					846.5	20625	23.22	24	0-1
	12			826.5	20425	22.93	24	0-1	
				836.5	20525	23.21	24	0-1	
				846.5	20625	22.95	24	0-1	
	24			826.5	20425	23.15	24	0-1	
				836.5	20525	23.02	24	0-1	
				846.5	20625	23.16	24	0-1	
	12 RB			0	826.5	20425	22.11	23	0-2
					836.5	20525	21.91	23	0-2
					846.5	20625	21.91	23	0-2
			6	826.5	20425	21.97	23	0-2	
				836.5	20525	22.00	23	0-2	
				846.5	20625	21.96	23	0-2	
			13	826.5	20425	22.00	23	0-2	
				836.5	20525	22.05	23	0-2	
				846.5	20625	22.06	23	0-2	
	25RB		826.5	20425	22.08	23	0-2		
			836.5	20525	22.05	23	0-2		
			846.5	20625	21.96	23	0-2		

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	825.5	20415	23.80	25	0	
				836.5	20525	23.72	25	0	
				847.5	20635	23.68	25	0	
			7	825.5	20415	23.57	25	0	
				836.5	20525	23.62	25	0	
				847.5	20635	23.48	25	0	
			14	825.5	20415	23.68	25	0	
				836.5	20525	23.64	25	0	
				847.5	20635	23.82	25	0	
		8 RB	0	825.5	20415	22.81	24	0-1	
				836.5	20525	22.79	24	0-1	
				847.5	20635	22.81	24	0-1	
			4	825.5	20415	22.78	24	0-1	
				836.5	20525	22.75	24	0-1	
				847.5	20635	22.82	24	0-1	
			7	825.5	20415	22.82	24	0-1	
				836.5	20525	22.84	24	0-1	
				847.5	20635	22.92	24	0-1	
		15RB	825.5	20415	22.86	24	0-1		
			836.5	20525	22.96	24	0-1		
			847.5	20635	22.75	24	0-1		
		16-QAM	1 RB	0	825.5	20415	23.03	24	0-1
					836.5	20525	22.97	24	0-1
					847.5	20635	23.19	24	0-1
	7			825.5	20415	22.88	24	0-1	
				836.5	20525	23.04	24	0-1	
				847.5	20635	22.92	24	0-1	
	14			825.5	20415	23.07	24	0-1	
				836.5	20525	22.90	24	0-1	
				847.5	20635	23.07	24	0-1	
	8 RB			0	825.5	20415	21.99	23	0-2
					836.5	20525	21.78	23	0-2
					847.5	20635	21.87	23	0-2
			4	825.5	20415	21.82	23	0-2	
				836.5	20525	21.88	23	0-2	
				847.5	20635	21.89	23	0-2	
			7	825.5	20415	21.96	23	0-2	
				836.5	20525	21.87	23	0-2	
				847.5	20635	21.92	23	0-2	
	15RB		825.5	20415	21.94	23	0-2		
			836.5	20525	21.94	23	0-2		
			847.5	20635	21.86	23	0-2		

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	824.7	20407	23.89	25	0	
				836.5	20525	23.90	25	0	
				848.3	20643	23.97	25	0	
			2	824.7	20407	23.92	25	0	
				836.5	20525	23.86	25	0	
				848.3	20643	23.93	25	0	
			5	824.7	20407	23.84	25	0	
				836.5	20525	23.90	25	0	
				848.3	20643	23.96	25	0	
		3 RB	0	824.7	20407	23.98	24	0-1	
				836.5	20525	23.93	24	0-1	
				848.3	20643	23.84	24	0-1	
			2	824.7	20407	23.95	24	0-1	
				836.5	20525	23.90	24	0-1	
				848.3	20643	23.96	24	0-1	
			3	824.7	20407	23.96	24	0-1	
				836.5	20525	23.91	24	0-1	
				848.3	20643	23.96	24	0-1	
		6RB	824.7	20407	23.10	24	0-1		
			836.5	20525	22.97	24	0-1		
			848.3	20643	23.01	24	0-1		
		16-QAM	1 RB	0	824.7	20407	23.34	24	0-1
					836.5	20525	23.18	24	0-1
					848.3	20643	23.21	24	0-1
	2			824.7	20407	23.35	24	0-1	
				836.5	20525	23.15	24	0-1	
				848.3	20643	23.26	24	0-1	
	5			824.7	20407	23.30	24	0-1	
				836.5	20525	23.20	24	0-1	
				848.3	20643	23.27	24	0-1	
	3 RB			0	824.7	20407	22.79	23	0-1
					836.5	20525	22.66	23	0-1
					848.3	20643	22.69	23	0-1
			2	824.7	20407	22.76	23	0-1	
				836.5	20525	22.68	23	0-1	
				848.3	20643	22.70	23	0-1	
			3	824.7	20407	22.73	23	0-1	
				836.5	20525	22.72	23	0-1	
				848.3	20643	22.71	23	0-1	
	6RB		824.7	20407	22.20	23	0-2		
			836.5	20525	22.02	23	0-2		
			848.3	20643	22.07	23	0-2		

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	2510	20850	23.50	24	0	
				2535	21100	23.47	24	0	
				2560	21350	23.23	24	0	
			50	2510	20850	23.37	24	0	
				2535	21100	23.25	24	0	
				2560	21350	23.11	24	0	
			99	2510	20850	23.37	24	0	
				2535	21100	23.19	24	0	
				2560	21350	23.12	24	0	
		50 RB	0	2510	20850	22.52	23	0-1	
				2535	21100	22.35	23	0-1	
				2560	21350	22.26	23	0-1	
			25	2510	20850	22.45	23	0-1	
				2535	21100	22.34	23	0-1	
				2560	21350	22.23	23	0-1	
			50	2510	20850	22.51	23	0-1	
				2535	21100	22.41	23	0-1	
				2560	21350	22.36	23	0-1	
		100RB	2510	20850	22.57	23	0-1		
			2535	21100	22.51	23	0-1		
			2560	21350	22.37	23	0-1		
		16-QAM	1 RB	0	2510	20850	22.60	23	0-1
					2535	21100	22.44	23	0-1
					2560	21350	22.35	23	0-1
	50			2510	20850	22.65	23	0-1	
				2535	21100	22.46	23	0-1	
				2560	21350	22.33	23	0-1	
	99			2510	20850	22.82	23	0-1	
				2535	21100	22.71	23	0-1	
				2560	21350	22.43	23	0-1	
	50 RB			0	2510	20850	21.50	22	0-2
					2535	21100	21.34	22	0-2
					2560	21350	21.24	22	0-2
			25	2510	20850	21.47	22	0-2	
				2535	21100	21.39	22	0-2	
				2560	21350	21.24	22	0-2	
			50	2510	20850	21.53	22	0-2	
				2535	21100	21.48	22	0-2	
				2560	21350	21.37	22	0-2	
	100RB		2510	20850	21.57	22	0-2		
			2535	21100	21.51	22	0-2		
			2560	21350	21.35	22	0-2		

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	2507.5	20825	23.31	24	0	
				2535	21100	23.00	24	0	
				2562.5	21375	22.99	24	0	
			36	2507.5	20825	23.22	24	0	
				2535	21100	23.18	24	0	
				2562.5	21375	22.93	24	0	
		74	2507.5	20825	23.41	24	0		
			2535	21100	23.39	24	0		
			2562.5	21375	23.15	24	0		
		36 RB	0	2507.5	20825	22.49	23	0-1	
				2535	21100	22.15	23	0-1	
				2562.5	21375	22.11	23	0-1	
			18	2507.5	20825	22.29	23	0-1	
				2535	21100	22.16	23	0-1	
				2562.5	21375	22.07	23	0-1	
			37	2507.5	20825	22.41	23	0-1	
				2535	21100	22.23	23	0-1	
				2562.5	21375	22.29	23	0-1	
			75RB	2507.5	20825	22.54	23	0-1	
				2535	21100	22.37	23	0-1	
				2562.5	21375	22.26	23	0-1	
		16-QAM	1 RB	0	2507.5	20825	22.43	23	0-1
					2535	21100	22.42	23	0-1
					2562.5	21375	22.15	23	0-1
	36			2507.5	20825	22.51	23	0-1	
				2535	21100	22.25	23	0-1	
				2562.5	21375	22.31	23	0-1	
	74			2507.5	20825	22.71	23	0-1	
				2535	21100	22.61	23	0-1	
				2562.5	21375	22.38	23	0-1	
	36 RB			0	2507.5	20825	21.32	22	0-2
					2535	21100	21.26	22	0-2
					2562.5	21375	21.21	22	0-2
			18	2507.5	20825	21.41	22	0-2	
				2535	21100	21.22	22	0-2	
				2562.5	21375	21.19	22	0-2	
			37	2507.5	20825	21.41	22	0-2	
				2535	21100	21.27	22	0-2	
				2562.5	21375	21.30	22	0-2	
			75RB	2507.5	20825	21.55	22	0-2	
				2535	21100	21.35	22	0-2	
				2562.5	21375	21.26	22	0-2	

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	2505	20800	23.24	24	0	
				2535	21100	22.86	24	0	
				2565	21400	22.83	24	0	
			25	2505	20800	23.06	24	0	
				2535	21100	23.12	24	0	
				2565	21400	22.81	24	0	
			49	2505	20800	23.25	24	0	
				2535	21100	23.20	24	0	
				2565	21400	22.99	24	0	
			25 RB	0	2505	20800	22.37	23	0-1
					2535	21100	22.12	23	0-1
					2565	21400	22.01	23	0-1
		12		2505	20800	22.15	23	0-1	
				2535	21100	22.09	23	0-1	
				2565	21400	21.95	23	0-1	
		25		2505	20800	22.24	23	0-1	
				2535	21100	22.18	23	0-1	
				2565	21400	22.25	23	0-1	
		50RB		2505	20800	22.33	23	0-1	
				2535	21100	22.27	23	0-1	
				2565	21400	22.21	23	0-1	
		16-QAM	1 RB	0	2505	20800	22.31	23	0-1
					2535	21100	22.38	23	0-1
					2565	21400	21.98	23	0-1
	25			2505	20800	22.36	23	0-1	
				2535	21100	22.10	23	0-1	
				2565	21400	22.13	23	0-1	
	49			2505	20800	22.54	23	0-1	
				2535	21100	22.52	23	0-1	
				2565	21400	22.36	23	0-1	
	25 RB			0	2505	20800	21.15	22	0-2
					2535	21100	21.16	22	0-2
					2565	21400	21.07	22	0-2
			12	2505	20800	21.27	22	0-2	
				2535	21100	21.06	22	0-2	
				2565	21400	21.11	22	0-2	
			25	2505	20800	21.37	22	0-2	
				2535	21100	21.14	22	0-2	
				2565	21400	21.09	22	0-2	
			50RB	2505	20800	21.34	22	0-2	
				2535	21100	21.14	22	0-2	
				2565	21400	21.16	22	0-2	

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	2502.5	20775	23.22	24	0	
				2535	21100	23.11	24	0	
				2567.5	21425	23.14	24	0	
			12	2502.5	20775	23.24	24	0	
				2535	21100	23.11	24	0	
				2567.5	21425	23.04	24	0	
		24	2502.5	20775	23.32	24	0		
			2535	21100	23.18	24	0		
			2567.5	21425	23.04	24	0		
		12 RB	0	2502.5	20775	22.42	23	0-1	
				2535	21100	22.22	23	0-1	
				2567.5	21425	22.22	23	0-1	
			6	2502.5	20775	22.38	23	0-1	
				2535	21100	22.21	23	0-1	
				2567.5	21425	22.23	23	0-1	
			13	2502.5	20775	22.40	23	0-1	
				2535	21100	22.25	23	0-1	
				2567.5	21425	22.20	23	0-1	
		25RB	2502.5	20775	22.39	23	0-1		
			2535	21100	22.22	23	0-1		
			2567.5	21425	22.26	23	0-1		
		16-QAM	1 RB	0	2502.5	20775	22.42	23	0-1
					2535	21100	22.24	23	0-1
					2567.5	21425	22.25	23	0-1
	12			2502.5	20775	22.41	23	0-1	
				2535	21100	22.21	23	0-1	
				2567.5	21425	22.31	23	0-1	
	24			2502.5	20775	22.45	23	0-1	
				2535	21100	22.29	23	0-1	
				2567.5	21425	22.28	23	0-1	
	12 RB			0	2502.5	20775	21.43	22	0-2
					2535	21100	21.25	22	0-2
					2567.5	21425	21.27	22	0-2
			6	2502.5	20775	21.42	22	0-2	
				2535	21100	21.30	22	0-2	
				2567.5	21425	21.28	22	0-2	
			13	2502.5	20775	21.45	22	0-2	
				2535	21100	21.35	22	0-2	
				2567.5	21425	21.25	22	0-2	
	25RB		2502.5	20775	21.41	22	0-2		
			2535	21100	21.32	22	0-2		
			2567.5	21425	21.29	22	0-2		

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	704	23060	22.72	24	0	
				707.5	23095	22.84	24	0	
				711	23130	22.77	24	0	
			25	704	23060	22.69	24	0	
				707.5	23095	22.68	24	0	
				711	23130	22.74	24	0	
			49	704	23060	22.59	24	0	
				707.5	23095	22.66	24	0	
				711	23130	22.67	24	0	
		25 RB	0	704	23060	21.84	23	0-1	
				707.5	23095	21.80	23	0-1	
				711	23130	21.79	23	0-1	
			12	704	23060	21.82	23	0-1	
				707.5	23095	21.81	23	0-1	
				711	23130	21.83	23	0-1	
			25	704	23060	21.85	23	0-1	
				707.5	23095	21.82	23	0-1	
				711	23130	21.98	23	0-1	
		50RB	704	23060	21.88	23	0-1		
			707.5	23095	21.93	23	0-1		
			711	23130	21.98	23	0-1		
		16-QAM	1 RB	0	704	23060	21.89	23	0-1
					707.5	23095	22.01	23	0-1
					711	23130	21.92	23	0-1
	25			704	23060	22.07	23	0-1	
				707.5	23095	21.99	23	0-1	
				711	23130	22.05	23	0-1	
	49			704	23060	22.01	23	0-1	
				707.5	23095	22.11	23	0-1	
				711	23130	22.05	23	0-1	
	25 RB			0	704	23060	20.89	22	0-2
					707.5	23095	20.92	22	0-2
					711	23130	20.93	22	0-2
			12	704	23060	20.85	22	0-2	
				707.5	23095	20.97	22	0-2	
				711	23130	20.91	22	0-2	
			25	704	23060	20.97	22	0-2	
				707.5	23095	20.95	22	0-2	
				711	23130	21.03	22	0-2	
	50RB		704	23060	21.02	22	0-2		
			707.5	23095	20.97	22	0-2		
			711	23130	21.02	22	0-2		

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	701.5	23035	22.55	24	0	
				707.5	23095	22.51	24	0	
				713.5	23155	22.50	24	0	
			12	701.5	23035	22.62	24	0	
				707.5	23095	22.57	24	0	
				713.5	23155	22.62	24	0	
		24	701.5	23035	22.66	24	0		
			707.5	23095	22.67	24	0		
			713.5	23155	22.64	24	0		
		12 RB	0	701.5	23035	21.63	23	0-1	
				707.5	23095	21.65	23	0-1	
				713.5	23155	21.73	23	0-1	
			6	701.5	23035	21.73	23	0-1	
				707.5	23095	21.75	23	0-1	
				713.5	23155	21.77	23	0-1	
			13	701.5	23035	21.73	23	0-1	
				707.5	23095	21.71	23	0-1	
				713.5	23155	21.85	23	0-1	
		25RB	701.5	23035	21.80	23	0-1		
			707.5	23095	21.73	23	0-1		
			713.5	23155	21.87	23	0-1		
		16-QAM	1 RB	0	701.5	23035	21.70	23	0-1
					707.5	23095	21.82	23	0-1
					713.5	23155	21.89	23	0-1
	12			701.5	23035	21.91	23	0-1	
				707.5	23095	21.93	23	0-1	
				713.5	23155	22.03	23	0-1	
	24			701.5	23035	21.93	23	0-1	
				707.5	23095	21.98	23	0-1	
				713.5	23155	21.90	23	0-1	
	12 RB			0	701.5	23035	20.84	22	0-2
					707.5	23095	20.83	22	0-2
					713.5	23155	20.89	22	0-2
			6	701.5	23035	20.67	22	0-2	
				707.5	23095	20.94	22	0-2	
				713.5	23155	20.84	22	0-2	
			13	701.5	23035	20.81	22	0-2	
				707.5	23095	20.81	22	0-2	
				713.5	23155	20.86	22	0-2	
	25RB		701.5	23035	20.87	22	0-2		
			707.5	23095	20.82	22	0-2		
			713.5	23155	20.84	22	0-2		

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	700.5	23025	22.38	24	0	
				707.5	23095	22.34	24	0	
				714.5	23165	22.46	24	0	
			7	700.5	23025	22.55	24	0	
				707.5	23095	22.44	24	0	
				714.5	23165	22.59	24	0	
			14	700.5	23025	22.50	24	0	
				707.5	23095	22.55	24	0	
				714.5	23165	22.47	24	0	
		8 RB	0	700.5	23025	21.47	23	0-1	
				707.5	23095	21.63	23	0-1	
				714.5	23165	21.63	23	0-1	
			4	700.5	23025	21.63	23	0-1	
				707.5	23095	21.56	23	0-1	
				714.5	23165	21.56	23	0-1	
			7	700.5	23025	21.70	23	0-1	
				707.5	23095	21.60	23	0-1	
				714.5	23165	21.76	23	0-1	
		15RB	700.5	23025	21.62	23	0-1		
			707.5	23095	21.57	23	0-1		
			714.5	23165	21.70	23	0-1		
		16-QAM	1 RB	0	700.5	23025	21.56	23	0-1
					707.5	23095	21.62	23	0-1
					714.5	23165	21.79	23	0-1
	7			700.5	23025	21.70	23	0-1	
				707.5	23095	21.74	23	0-1	
				714.5	23165	21.99	23	0-1	
	14			700.5	23025	21.75	23	0-1	
				707.5	23095	21.86	23	0-1	
				714.5	23165	21.84	23	0-1	
	8 RB			0	700.5	23025	20.70	22	0-2
					707.5	23095	20.72	22	0-2
					714.5	23165	20.79	22	0-2
			4	700.5	23025	20.52	22	0-2	
				707.5	23095	20.85	22	0-2	
				714.5	23165	20.76	22	0-2	
			7	700.5	23025	20.74	22	0-2	
				707.5	23095	20.71	22	0-2	
				714.5	23165	20.74	22	0-2	
	15RB		700.5	23025	20.70	22	0-2		
			707.5	23095	20.72	22	0-2		
			714.5	23165	20.69	22	0-2		

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	699.7	23017	22.74	24	0	
				707.5	23095	22.75	24	0	
				715.3	23173	22.76	24	0	
			2	699.7	23017	22.64	24	0	
				707.5	23095	22.73	24	0	
				715.3	23173	22.79	24	0	
			5	699.7	23017	22.79	24	0	
				707.5	23095	22.80	24	0	
				715.3	23173	22.77	24	0	
		3 RB	0	699.7	23017	22.77	23	0-1	
				707.5	23095	22.83	23	0-1	
				715.3	23173	22.78	23	0-1	
			2	699.7	23017	22.80	23	0-1	
				707.5	23095	22.83	23	0-1	
				715.3	23173	22.71	23	0-1	
			3	699.7	23017	22.81	23	0-1	
				707.5	23095	22.79	23	0-1	
				715.3	23173	22.77	23	0-1	
		6RB	699.7	23017	21.79	23	0-1		
			707.5	23095	21.85	23	0-1		
			715.3	23173	21.83	23	0-1		
		16-QAM	1 RB	0	699.7	23017	22.08	23	0-1
					707.5	23095	22.08	23	0-1
					715.3	23173	22.15	23	0-1
	2			699.7	23017	22.03	23	0-1	
				707.5	23095	21.98	23	0-1	
				715.3	23173	22.06	23	0-1	
	5			699.7	23017	22.09	23	0-1	
				707.5	23095	22.02	23	0-1	
				715.3	23173	22.10	23	0-1	
	3 RB			0	699.7	23017	21.84	22	0-1
					707.5	23095	21.87	22	0-1
					715.3	23173	21.89	22	0-1
			2	699.7	23017	21.84	22	0-1	
				707.5	23095	21.86	22	0-1	
				715.3	23173	21.87	22	0-1	
			3	699.7	23017	21.85	22	0-1	
				707.5	23095	21.87	22	0-1	
				715.3	23173	21.91	22	0-1	
	6RB		699.7	23017	20.87	22	0-2		
			707.5	23095	20.93	22	0-2		
			715.3	23173	20.90	22	0-2		

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FDD Band 13								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	782	23230	23.39	24	0
			25	782	23230	23.44	24	0
			49	782	23230	23.43	24	0
		25 RB	0	782	23230	22.63	23	0-1
			12	782	23230	22.38	23	0-1
			25	782	23230	22.46	23	0-1
	50RB			782	23230	22.55	23	0-1
	16-QAM	1 RB	0	782	23230	22.67	23	0-1
			25	782	23230	22.75	23	0-1
			49	782	23230	22.79	23	0-1
		25 RB	0	782	23230	21.64	22	0-2
			12	782	23230	21.43	22	0-2
			25	782	23230	21.54	22	0-2
		50RB			782	23230	21.61	22

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FDD Band 13									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	779.5	23205	23.37	24	0	
				782	23230	23.42	24	0	
				784.5	23255	23.43	24	0	
			12	779.5	23205	23.41	24	0	
				782	23230	23.38	24	0	
				784.5	23255	23.37	24	0	
			24	779.5	23205	23.37	24	0	
				782	23230	23.43	24	0	
				784.5	23255	23.41	24	0	
		12 RB	0	779.5	23205	22.41	23	0-1	
				782	23230	22.37	23	0-1	
				784.5	23255	22.41	23	0-1	
			6	779.5	23205	22.50	23	0-1	
				782	23230	22.30	23	0-1	
				784.5	23255	22.38	23	0-1	
			13	779.5	23205	22.37	23	0-1	
				782	23230	22.39	23	0-1	
				784.5	23255	22.38	23	0-1	
		25RB	779.5	23205	22.51	23	0-1		
			782	23230	22.36	23	0-1		
			784.5	23255	22.40	23	0-1		
		16-QAM	1 RB	0	779.5	23205	22.65	23	0-1
					782	23230	22.85	23	0-1
					784.5	23255	22.70	23	0-1
	12			779.5	23205	22.75	23	0-1	
				782	23230	22.74	23	0-1	
				784.5	23255	22.75	23	0-1	
	24			779.5	23205	22.63	23	0-1	
				782	23230	22.67	23	0-1	
				784.5	23255	22.67	23	0-1	
	12 RB			0	779.5	23205	21.50	22	0-2
					782	23230	21.43	22	0-2
					784.5	23255	21.50	22	0-2
			6	779.5	23205	21.57	22	0-2	
				782	23230	21.35	22	0-2	
				784.5	23255	21.46	22	0-2	
			13	779.5	23205	21.46	22	0-2	
				782	23230	21.48	22	0-2	
				784.5	23255	21.48	22	0-2	
	25RB		779.5	23205	21.57	22	0-2		
			782	23230	21.40	22	0-2		
			784.5	23255	21.45	22	0-2		

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FDD Band 17									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	709	23780	23.08	24	0	
				710	23790	23.06	24	0	
				711	23800	22.97	24	0	
			25	709	23780	22.88	24	0	
				710	23790	22.85	24	0	
				711	23800	22.85	24	0	
			49	709	23780	22.92	24	0	
				710	23790	22.85	24	0	
				711	23800	22.80	24	0	
		25 RB	0	709	23780	22.00	23	0-1	
				710	23790	22.00	23	0-1	
				711	23800	21.93	23	0-1	
			12	709	23780	21.97	23	0-1	
				710	23790	21.96	23	0-1	
				711	23800	21.95	23	0-1	
			25	709	23780	22.06	23	0-1	
				710	23790	22.08	23	0-1	
				711	23800	22.03	23	0-1	
		50RB	709	23780	22.07	23	0-1		
			710	23790	22.06	23	0-1		
			711	23800	22.08	23	0-1		
		16-QAM	1 RB	0	709	23780	22.20	23	0-1
					710	23790	22.10	23	0-1
					711	23800	22.06	23	0-1
	25			709	23780	22.09	23	0-1	
				710	23790	22.15	23	0-1	
				711	23800	22.15	23	0-1	
	49			709	23780	22.40	23	0-1	
				710	23790	22.34	23	0-1	
				711	23800	22.25	23	0-1	
	25 RB			0	709	23780	21.10	22	0-2
					710	23790	21.10	22	0-2
					711	23800	21.00	22	0-2
			12	709	23780	21.10	22	0-2	
				710	23790	21.04	22	0-2	
				711	23800	21.01	22	0-2	
			25	709	23780	21.16	22	0-2	
				710	23790	21.15	22	0-2	
				711	23800	21.15	22	0-2	
	50RB		709	23780	21.11	22	0-2		
			710	23790	21.10	22	0-2		
			711	23800	21.16	22	0-2		

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FDD Band 17									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	706.5	23755	22.89	24	0	
				710	23790	22.79	24	0	
				713.5	23825	22.83	24	0	
			12	706.5	23755	22.83	24	0	
				710	23790	22.76	24	0	
				713.5	23825	22.89	24	0	
		24	706.5	23755	22.84	24	0		
			710	23790	22.90	24	0		
			713.5	23825	22.91	24	0		
		12 RB	0	706.5	23755	21.92	23	0-1	
				710	23790	21.87	23	0-1	
				713.5	23825	21.86	23	0-1	
			6	706.5	23755	21.95	23	0-1	
				710	23790	21.83	23	0-1	
				713.5	23825	21.90	23	0-1	
			13	706.5	23755	21.95	23	0-1	
				710	23790	21.94	23	0-1	
				713.5	23825	22.00	23	0-1	
		25RB	706.5	23755	21.95	23	0-1		
			710	23790	21.89	23	0-1		
			713.5	23825	21.92	23	0-1		
		16-QAM	1 RB	0	706.5	23755	22.34	23	0-1
					710	23790	22.00	23	0-1
					713.5	23825	22.22	23	0-1
	12			706.5	23755	22.17	23	0-1	
				710	23790	22.10	23	0-1	
				713.5	23825	22.31	23	0-1	
	24			706.5	23755	22.18	23	0-1	
				710	23790	22.11	23	0-1	
				713.5	23825	22.15	23	0-1	
	12 RB			0	706.5	23755	20.97	22	0-2
					710	23790	20.94	22	0-2
					713.5	23825	20.89	22	0-2
			6	706.5	23755	21.00	22	0-2	
				710	23790	20.91	22	0-2	
				713.5	23825	20.97	22	0-2	
			13	706.5	23755	21.00	22	0-2	
				710	23790	20.99	22	0-2	
				713.5	23825	21.02	22	0-2	
	25RB		706.5	23755	21.00	22	0-2		
			710	23790	20.96	22	0-2		
			713.5	23825	20.94	22	0-2		

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	821.5	26765	22.91	24	0	
				831.5	26865	23.14	24	0	
				841.5	26965	22.95	24	0	
			36	821.5	26765	23.08	24	0	
				831.5	26865	23.08	24	0	
				841.5	26965	22.98	24	0	
			74	821.5	26765	23.05	24	0	
				831.5	26865	23.04	24	0	
				841.5	26965	23.07	24	0	
		36 RB	0	821.5	26765	22.07	23	0-1	
				831.5	26865	22.07	23	0-1	
				841.5	26965	22.02	23	0-1	
			18	821.5	26765	22.16	23	0-1	
				831.5	26865	22.15	23	0-1	
				841.5	26965	22.00	23	0-1	
			37	821.5	26765	22.19	23	0-1	
				831.5	26865	22.05	23	0-1	
				841.5	26965	21.99	23	0-1	
		75RB	821.5	26765	22.23	23	0-1		
			831.5	26865	22.24	23	0-1		
			841.5	26965	22.11	23	0-1		
		16-QAM	1 RB	0	821.5	26765	22.01	23	0-1
					831.5	26865	22.32	23	0-1
					841.5	26965	22.34	23	0-1
	36			821.5	26765	22.22	23	0-1	
				831.5	26865	22.17	23	0-1	
				841.5	26965	22.18	23	0-1	
	74			821.5	26765	22.20	23	0-1	
				831.5	26865	22.15	23	0-1	
				841.5	26965	22.21	23	0-1	
	36 RB			0	821.5	26765	21.14	22	0-2
					831.5	26865	21.18	22	0-2
					841.5	26965	21.09	22	0-2
			18	821.5	26765	21.20	22	0-2	
				831.5	26865	21.22	22	0-2	
				841.5	26965	21.05	22	0-2	
			37	821.5	26765	21.30	22	0-2	
				831.5	26865	21.12	22	0-2	
				841.5	26965	21.08	22	0-2	
	75RB		821.5	26765	21.35	22	0-2		
			831.5	26865	21.32	22	0-2		
			841.5	26965	21.19	22	0-2		

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	819	26740	22.74	24	0	
				831.5	26865	23.00	24	0	
				844	26990	22.89	24	0	
			25	819	26740	23.04	24	0	
				831.5	26865	22.98	24	0	
				844	26990	22.81	24	0	
			49	819	26740	22.95	24	0	
				831.5	26865	23.00	24	0	
				844	26990	23.01	24	0	
			25 RB	0	819	26740	21.99	23	0-1
					831.5	26865	22.03	23	0-1
					844	26990	21.94	23	0-1
		12		819	26740	22.14	23	0-1	
				831.5	26865	22.13	23	0-1	
				844	26990	21.96	23	0-1	
		25		819	26740	22.08	23	0-1	
				831.5	26865	21.99	23	0-1	
				844	26990	21.81	23	0-1	
		50RB		819	26740	22.04	23	0-1	
				831.5	26865	22.21	23	0-1	
				844	26990	22.02	23	0-1	
		16-QAM	1 RB	0	819	26740	21.94	23	0-1
					831.5	26865	22.14	23	0-1
					844	26990	22.18	23	0-1
	25			819	26740	22.11	23	0-1	
				831.5	26865	22.10	23	0-1	
				844	26990	22.08	23	0-1	
	49			819	26740	22.05	23	0-1	
				831.5	26865	22.02	23	0-1	
				844	26990	22.08	23	0-1	
	25 RB			0	819	26740	20.96	22	0-2
					831.5	26865	21.13	22	0-2
					844	26990	20.95	22	0-2
			12	819	26740	21.04	22	0-2	
				831.5	26865	21.04	22	0-2	
				844	26990	20.98	22	0-2	
			25	819	26740	21.14	22	0-2	
				831.5	26865	20.99	22	0-2	
				844	26990	20.98	22	0-2	
			50RB	819	26740	21.31	22	0-2	
				831.5	26865	21.18	22	0-2	
				844	26990	21.09	22	0-2	

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	816.5	26715	22.63	24	0	
				831.5	26865	22.87	24	0	
				846.5	27015	22.72	24	0	
			12	816.5	26715	22.99	24	0	
				831.5	26865	22.90	24	0	
				846.5	27015	22.77	24	0	
			24	816.5	26715	22.78	24	0	
				831.5	26865	22.86	24	0	
				846.5	27015	22.80	24	0	
			12 RB	0	816.5	26715	21.79	23	0-1
					831.5	26865	22.01	23	0-1
					846.5	27015	21.92	23	0-1
		6		816.5	26715	22.03	23	0-1	
				831.5	26865	21.95	23	0-1	
				846.5	27015	21.80	23	0-1	
		13		816.5	26715	21.90	23	0-1	
				831.5	26865	21.84	23	0-1	
				846.5	27015	21.74	23	0-1	
		25RB		816.5	26715	21.94	23	0-1	
				831.5	26865	22.06	23	0-1	
				846.5	27015	21.93	23	0-1	
		16-QAM	1 RB	0	816.5	26715	21.91	23	0-1
					831.5	26865	22.09	23	0-1
					846.5	27015	22.00	23	0-1
	12			816.5	26715	22.06	23	0-1	
				831.5	26865	22.07	23	0-1	
				846.5	27015	22.06	23	0-1	
	24			816.5	26715	21.86	23	0-1	
				831.5	26865	21.92	23	0-1	
				846.5	27015	21.94	23	0-1	
	12 RB			0	816.5	26715	20.88	22	0-2
					831.5	26865	21.03	22	0-2
					846.5	27015	20.90	22	0-2
			6	816.5	26715	20.94	22	0-2	
				831.5	26865	20.96	22	0-2	
				846.5	27015	20.88	22	0-2	
			13	816.5	26715	21.03	22	0-2	
				831.5	26865	20.96	22	0-2	
				846.5	27015	20.82	22	0-2	
			25RB	816.5	26715	21.22	22	0-2	
				831.5	26865	21.04	22	0-2	
				846.5	27015	20.90	22	0-2	

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	815.5	26705	22.46	24	0	
				831.5	26865	22.75	24	0	
				847.5	27025	22.61	24	0	
			7	815.5	26705	22.78	24	0	
				831.5	26865	22.84	24	0	
				847.5	27025	22.57	24	0	
			14	815.5	26705	22.74	24	0	
				831.5	26865	22.79	24	0	
				847.5	27025	22.66	24	0	
			8 RB	0	815.5	26705	21.59	23	0-1
					831.5	26865	21.88	23	0-1
					847.5	27025	21.72	23	0-1
		4		815.5	26705	21.90	23	0-1	
				831.5	26865	21.92	23	0-1	
				847.5	27025	21.75	23	0-1	
		7		815.5	26705	21.80	23	0-1	
				831.5	26865	21.70	23	0-1	
				847.5	27025	21.70	23	0-1	
		15RB		815.5	26705	21.78	23	0-1	
				831.5	26865	21.96	23	0-1	
				847.5	27025	21.89	23	0-1	
		16-QAM	1 RB	0	815.5	26705	21.83	23	0-1
					831.5	26865	21.89	23	0-1
					847.5	27025	21.87	23	0-1
	7			815.5	26705	21.85	23	0-1	
				831.5	26865	22.04	23	0-1	
				847.5	27025	21.85	23	0-1	
	14			815.5	26705	21.77	23	0-1	
				831.5	26865	21.78	23	0-1	
				847.5	27025	21.80	23	0-1	
	8 RB			0	815.5	26705	20.84	22	0-2
					831.5	26865	20.85	22	0-2
					847.5	27025	20.86	22	0-2
			4	815.5	26705	20.78	22	0-2	
				831.5	26865	20.79	22	0-2	
				847.5	27025	20.80	22	0-2	
			7	815.5	26705	20.94	22	0-2	
				831.5	26865	20.77	22	0-2	
				847.5	27025	20.72	22	0-2	
			15RB	815.5	26705	21.19	22	0-2	
				831.5	26865	20.94	22	0-2	
				847.5	27025	20.87	22	0-2	

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	814.7	26697	22.92	24	0	
				831.5	26865	23.05	24	0	
				848.3	27033	23.08	24	0	
			2	814.7	26697	22.89	24	0	
				831.5	26865	23.04	24	0	
				848.3	27033	23.07	24	0	
		5	814.7	26697	22.99	24	0		
			831.5	26865	23.05	24	0		
			848.3	27033	23.10	24	0		
		3 RB	0	814.7	26697	22.90	23	0-1	
				831.5	26865	22.89	23	0-1	
				848.3	27033	22.91	23	0-1	
			2	814.7	26697	22.88	23	0-1	
				831.5	26865	22.98	23	0-1	
				848.3	27033	22.98	23	0-1	
			3	814.7	26697	22.91	23	0-1	
				831.5	26865	22.86	23	0-1	
				848.3	27033	22.99	23	0-1	
		6RB	814.7	26697	21.92	23	0-1		
			831.5	26865	22.06	23	0-1		
			848.3	27033	22.10	23	0-1		
		16-QAM	1 RB	0	814.7	26697	22.27	23	0-1
					831.5	26865	22.28	23	0-1
					848.3	27033	22.38	23	0-1
	2			814.7	26697	22.24	23	0-1	
				831.5	26865	22.33	23	0-1	
				848.3	27033	22.46	23	0-1	
	5			814.7	26697	22.27	23	0-1	
				831.5	26865	22.41	23	0-1	
				848.3	27033	22.49	23	0-1	
	3 RB			0	814.7	26697	21.80	22	0-1
					831.5	26865	21.94	22	0-1
					848.3	27033	21.95	22	0-1
			2	814.7	26697	21.77	22	0-1	
				831.5	26865	21.99	22	0-1	
				848.3	27033	21.94	22	0-1	
			3	814.7	26697	21.79	22	0-1	
				831.5	26865	22.00	22	0-1	
				848.3	27033	21.95	22	0-1	
	6RB		814.7	26697	21.02	22	0-2		
			831.5	26865	21.20	22	0-2		
			848.3	27033	21.20	22	0-2		

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FDD Band 30								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	2310	27710	19.95	20	0
			25	2310	27710	19.89	20	0
			49	2310	27710	19.87	20	0
		25 RB	0	2310	27710	18.98	19	0-1
			12	2310	27710	18.99	19	0-1
			25	2310	27710	18.89	19	0-1
	50RB			2310	27710	18.93	19	0-1
	16-QAM	1 RB	0	2310	27710	18.99	19	0-1
			25	2310	27710	18.84	19	0-1
			49	2310	27710	18.93	19	0-1
		25 RB	0	2310	27710	17.90	18	0-2
			12	2310	27710	17.91	18	0-2
			25	2310	27710	17.91	18	0-2
		50RB			2310	27710	17.93	18

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FDD Band 30									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	2307.5	27685	19.60	20	0	
				2310	27710	19.70	20	0	
				2312.5	27735	19.69	20	0	
			12	2307.5	27685	19.64	20	0	
				2310	27710	19.65	20	0	
				2312.5	27735	19.63	20	0	
		24	2307.5	27685	19.74	20	0		
			2310	27710	19.63	20	0		
			2312.5	27735	19.70	20	0		
		12 RB	0	2307.5	27685	18.78	19	0-1	
				2310	27710	18.75	19	0-1	
				2312.5	27735	18.74	19	0-1	
			6	2307.5	27685	18.76	19	0-1	
				2310	27710	18.73	19	0-1	
				2312.5	27735	18.79	19	0-1	
			13	2307.5	27685	18.81	19	0-1	
				2310	27710	18.73	19	0-1	
				2312.5	27735	18.81	19	0-1	
		25RB	2307.5	27685	18.76	19	0-1		
			2310	27710	18.73	19	0-1		
			2312.5	27735	18.78	19	0-1		
		16-QAM	1 RB	0	2307.5	27685	18.94	19	0-1
					2310	27710	18.91	19	0-1
					2312.5	27735	18.89	19	0-1
	12			2307.5	27685	18.98	19	0-1	
				2310	27710	18.84	19	0-1	
				2312.5	27735	18.91	19	0-1	
	24		2307.5	27685	18.92	19	0-1		
			2310	27710	18.95	19	0-1		
			2312.5	27735	18.92	19	0-1		
	12 RB		0	2307.5	27685	17.86	18	0-2	
				2310	27710	17.83	18	0-2	
				2312.5	27735	17.76	18	0-2	
			6	2307.5	27685	17.81	18	0-2	
				2310	27710	17.79	18	0-2	
				2312.5	27735	17.82	18	0-2	
			13	2307.5	27685	17.89	18	0-2	
				2310	27710	17.76	18	0-2	
				2312.5	27735	17.82	18	0-2	
	25RB		2307.5	27685	17.81	18	0-2		
			2310	27710	17.79	18	0-2		
			2312.5	27735	17.82	18	0-2		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	1720	132072	23.18	24	0	
				1745	132322	23.69	24	0	
				1770	132572	23.71	24	0	
			50	1720	132072	23.52	24	0	
				1745	132322	23.43	24	0	
				1770	132572	23.23	24	0	
			99	1720	132072	23.51	24	0	
				1745	132322	23.25	24	0	
				1770	132572	23.55	24	0	
		50 RB	0	1720	132072	22.56	23	0-1	
				1745	132322	22.34	23	0-1	
				1770	132572	22.38	23	0-1	
			25	1720	132072	22.50	23	0-1	
				1745	132322	22.47	23	0-1	
				1770	132572	22.26	23	0-1	
			50	1720	132072	22.37	23	0-1	
				1745	132322	22.65	23	0-1	
				1770	132572	22.42	23	0-1	
		100RB	1720	132072	22.63	23	0-1		
			1745	132322	22.64	23	0-1		
			1770	132572	22.55	23	0-1		
		16-QAM	1 RB	0	1720	132072	22.72	23	0-1
					1745	132322	22.66	23	0-1
					1770	132572	22.76	23	0-1
	50			1720	132072	22.72	23	0-1	
				1745	132322	22.65	23	0-1	
				1770	132572	22.40	23	0-1	
	99			1720	132072	22.45	23	0-1	
				1745	132322	22.90	23	0-1	
				1770	132572	22.89	23	0-1	
	50 RB			0	1720	132072	21.50	22	0-2
					1745	132322	21.30	22	0-2
					1770	132572	21.33	22	0-2
			25	1720	132072	21.46	22	0-2	
				1745	132322	21.42	22	0-2	
				1770	132572	21.17	22	0-2	
			50	1720	132072	21.31	22	0-2	
				1745	132322	21.58	22	0-2	
				1770	132572	21.35	22	0-2	
	100RB		1720	132072	21.62	22	0-2		
			1745	132322	21.66	22	0-2		
			1770	132572	21.53	22	0-2		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	1717.5	132047	23.33	24	0	
				1745	132322	23.21	24	0	
				1772.5	132597	23.53	24	0	
			36	1717.5	132047	23.48	24	0	
				1745	132322	23.24	24	0	
				1772.5	132597	23.07	24	0	
			74	1717.5	132047	23.11	24	0	
				1745	132322	23.61	24	0	
				1772.5	132597	23.52	24	0	
			36 RB	0	1717.5	132047	22.36	23	0-1
					1745	132322	22.22	23	0-1
					1772.5	132597	22.23	23	0-1
		18		1717.5	132047	22.39	23	0-1	
				1745	132322	22.28	23	0-1	
				1772.5	132597	22.19	23	0-1	
		37		1717.5	132047	22.26	23	0-1	
				1745	132322	22.62	23	0-1	
				1772.5	132597	22.27	23	0-1	
		75RB		1717.5	132047	22.45	23	0-1	
				1745	132322	22.61	23	0-1	
				1772.5	132597	22.40	23	0-1	
		16-QAM	1 RB	0	1717.5	132047	22.63	23	0-1
					1745	132322	22.60	23	0-1
					1772.5	132597	22.63	23	0-1
	36			1717.5	132047	22.53	23	0-1	
				1745	132322	22.61	23	0-1	
				1772.5	132597	22.32	23	0-1	
	74			1717.5	132047	22.42	23	0-1	
				1745	132322	22.73	23	0-1	
				1772.5	132597	22.78	23	0-1	
	36 RB			0	1717.5	132047	21.37	22	0-2
					1745	132322	21.28	22	0-2
					1772.5	132597	21.19	22	0-2
			18	1717.5	132047	21.36	22	0-2	
				1745	132322	21.32	22	0-2	
				1772.5	132597	21.14	22	0-2	
			37	1717.5	132047	21.18	22	0-2	
				1745	132322	21.42	22	0-2	
				1772.5	132597	21.25	22	0-2	
			75RB	1717.5	132047	21.51	22	0-2	
				1745	132322	21.57	22	0-2	
				1772.5	132597	21.48	22	0-2	

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	1715	132022	23.18	24	0	
				1745	132322	23.03	24	0	
				1775	132622	23.33	24	0	
			25	1715	132022	23.39	24	0	
				1745	132322	23.06	24	0	
				1775	132622	23.02	24	0	
			49	1715	132022	23.02	24	0	
				1745	132322	23.57	24	0	
				1775	132622	23.41	24	0	
		25 RB	0	1715	132022	22.17	23	0-1	
				1745	132322	22.18	23	0-1	
				1775	132622	22.07	23	0-1	
			12	1715	132022	22.21	23	0-1	
				1745	132322	22.12	23	0-1	
				1775	132622	22.16	23	0-1	
			25	1715	132022	22.15	23	0-1	
				1745	132322	22.48	23	0-1	
				1775	132622	22.19	23	0-1	
		50RB	1715	132022	22.36	23	0-1		
			1745	132322	22.55	23	0-1		
			1775	132622	22.31	23	0-1		
		16-QAM	1 RB	0	1715	132022	22.57	23	0-1
					1745	132322	22.50	23	0-1
					1775	132622	22.54	23	0-1
	25			1715	132022	22.50	23	0-1	
				1745	132322	22.55	23	0-1	
				1775	132622	22.25	23	0-1	
	49			1715	132022	22.32	23	0-1	
				1745	132322	22.70	23	0-1	
				1775	132622	22.57	23	0-1	
	25 RB			0	1715	132022	21.33	22	0-2
					1745	132322	21.08	22	0-2
					1775	132622	21.09	22	0-2
			12	1715	132022	21.18	22	0-2	
				1745	132322	21.17	22	0-2	
				1775	132622	21.07	22	0-2	
			25	1715	132022	21.11	22	0-2	
				1745	132322	21.31	22	0-2	
				1775	132622	21.05	22	0-2	
	50RB		1715	132022	21.45	22	0-2		
			1745	132322	21.46	22	0-2		
			1775	132622	21.28	22	0-2		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	1712.5	131997	23.04	24	0	
				1745	132322	22.82	24	0	
				1777.5	132647	23.20	24	0	
			12	1712.5	131997	23.35	24	0	
				1745	132322	22.93	24	0	
				1777.5	132647	22.81	24	0	
			24	1712.5	131997	22.81	24	0	
				1745	132322	23.53	24	0	
				1777.5	132647	23.20	24	0	
		12 RB	0	1712.5	131997	22.02	23	0-1	
				1745	132322	22.12	23	0-1	
				1777.5	132647	22.03	23	0-1	
			6	1712.5	131997	22.07	23	0-1	
				1745	132322	21.95	23	0-1	
				1777.5	132647	22.04	23	0-1	
			13	1712.5	131997	21.94	23	0-1	
				1745	132322	22.32	23	0-1	
				1777.5	132647	22.08	23	0-1	
		25RB	1712.5	131997	22.23	23	0-1		
			1745	132322	22.43	23	0-1		
			1777.5	132647	22.28	23	0-1		
		16-QAM	1 RB	0	1712.5	131997	22.51	23	0-1
					1745	132322	22.40	23	0-1
					1777.5	132647	22.49	23	0-1
				12	1712.5	131997	22.31	23	0-1
					1745	132322	22.41	23	0-1
					1777.5	132647	22.07	23	0-1
	24			1712.5	131997	22.13	23	0-1	
				1745	132322	22.58	23	0-1	
				1777.5	132647	22.41	23	0-1	
	12 RB		0	1712.5	131997	21.16	22	0-2	
				1745	132322	20.88	22	0-2	
				1777.5	132647	21.07	22	0-2	
			6	1712.5	131997	21.08	22	0-2	
				1745	132322	21.11	22	0-2	
				1777.5	132647	20.97	22	0-2	
			13	1712.5	131997	20.99	22	0-2	
				1745	132322	21.28	22	0-2	
				1777.5	132647	20.88	22	0-2	
	25RB		1712.5	131997	21.27	22	0-2		
			1745	132322	21.43	22	0-2		
			1777.5	132647	21.21	22	0-2		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	1711.5	131987	22.88	24	0	
				1745	132322	22.76	24	0	
				1778.5	132657	23.16	24	0	
			7	1711.5	131987	23.15	24	0	
				1745	132322	22.72	24	0	
				1778.5	132657	22.72	24	0	
			14	1711.5	131987	22.79	24	0	
				1745	132322	23.32	24	0	
				1778.5	132657	23.16	24	0	
		8 RB	0	1711.5	131987	21.82	23	0-1	
				1745	132322	22.04	23	0-1	
				1778.5	132657	21.91	23	0-1	
			4	1711.5	131987	21.88	23	0-1	
				1745	132322	21.74	23	0-1	
				1778.5	132657	21.90	23	0-1	
			7	1711.5	131987	21.81	23	0-1	
				1745	132322	22.20	23	0-1	
				1778.5	132657	22.03	23	0-1	
		15RB	1711.5	131987	22.13	23	0-1		
			1745	132322	22.22	23	0-1		
			1778.5	132657	22.18	23	0-1		
		16-QAM	1 RB	0	1711.5	131987	22.48	23	0-1
					1745	132322	22.34	23	0-1
					1778.5	132657	22.36	23	0-1
	7			1711.5	131987	22.20	23	0-1	
				1745	132322	22.29	23	0-1	
				1778.5	132657	21.90	23	0-1	
	14			1711.5	131987	22.04	23	0-1	
				1745	132322	22.40	23	0-1	
				1778.5	132657	22.26	23	0-1	
	8 RB			0	1711.5	131987	20.98	22	0-2
					1745	132322	20.68	22	0-2
					1778.5	132657	20.89	22	0-2
			4	1711.5	131987	20.88	22	0-2	
				1745	132322	20.92	22	0-2	
				1778.5	132657	20.91	22	0-2	
			7	1711.5	131987	20.96	22	0-2	
				1745	132322	21.23	22	0-2	
				1778.5	132657	20.85	22	0-2	
	15RB		1711.5	131987	21.16	22	0-2		
			1745	132322	21.28	22	0-2		
			1778.5	132657	21.03	22	0-2		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1710.7	131979	23.38	24	0	
				1745	132322	23.46	24	0	
				1779.3	132665	23.69	24	0	
			2	1710.7	131979	23.37	24	0	
				1745	132322	23.42	24	0	
				1779.3	132665	23.66	24	0	
			5	1710.7	131979	23.43	24	0	
				1745	132322	23.45	24	0	
				1779.3	132665	23.66	24	0	
		3 RB	0	1710.7	131979	22.98	23	0	
				1745	132322	22.97	23	0	
				1779.3	132665	22.87	23	0	
			2	1710.7	131979	22.99	23	0	
				1745	132322	22.76	23	0	
				1779.3	132665	22.93	23	0	
			3	1710.7	131979	22.78	23	0	
				1745	132322	22.90	23	0	
				1779.3	132665	22.98	23	0	
		6RB	1710.7	131979	22.20	23	0-1		
			1745	132322	22.29	23	0-1		
			1779.3	132665	22.50	23	0-1		
		16-QAM	1 RB	0	1710.7	131979	22.69	23	0-1
					1745	132322	22.85	23	0-1
					1779.3	132665	22.97	23	0-1
	2			1710.7	131979	22.55	23	0-1	
				1745	132322	22.81	23	0-1	
				1779.3	132665	22.94	23	0-1	
	5			1710.7	131979	22.68	23	0-1	
				1745	132322	22.92	23	0-1	
				1779.3	132665	22.91	23	0-1	
	3 RB			0	1710.7	131979	22.21	23	0-1
					1745	132322	22.24	23	0-1
					1779.3	132665	22.57	23	0-1
			2	1710.7	131979	22.33	23	0-1	
				1745	132322	22.36	23	0-1	
				1779.3	132665	22.64	23	0-1	
			3	1710.7	131979	22.28	23	0-1	
				1745	132322	22.41	23	0-1	
				1779.3	132665	22.58	23	0-1	
	6RB		1710.7	131979	21.22	22	0-2		
			1745	132322	21.29	22	0-2		
			1779.3	132665	21.49	22	0-2		

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**LTE TDD Band 38 / Band 41 power table (Full power):**

TDD Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	2580	37850	23.68	24	0	
				2595	38000	23.57	24	0	
				2610	38150	23.55	24	0	
			50	2580	37850	23.64	24	0	
				2595	38000	23.54	24	0	
				2610	38150	23.52	24	0	
		99	2580	37850	23.62	24	0		
			2595	38000	23.58	24	0		
			2610	38150	23.51	24	0		
		50 RB	0	2580	37850	22.58	23	0-1	
				2595	38000	22.54	23	0-1	
				2610	38150	22.47	23	0-1	
			25	2580	37850	22.51	23	0-1	
				2595	38000	22.53	23	0-1	
				2610	38150	22.48	23	0-1	
			50	2580	37850	22.51	23	0-1	
				2595	38000	22.55	23	0-1	
				2610	38150	22.49	23	0-1	
			100RB	2580	37850	22.54	23	0-1	
				2595	38000	22.52	23	0-1	
				2610	38150	22.50	23	0-1	
		16-QAM	1 RB	0	2580	37850	22.54	23	0-1
					2595	38000	22.39	23	0-1
					2610	38150	22.40	23	0-1
	50			2580	37850	22.45	23	0-1	
				2595	38000	22.36	23	0-1	
				2610	38150	22.44	23	0-1	
	99			2580	37850	22.45	23	0-1	
				2595	38000	22.52	23	0-1	
				2610	38150	22.45	23	0-1	
	50 RB			0	2580	37850	21.54	22	0-2
					2595	38000	21.42	22	0-2
					2610	38150	21.32	22	0-2
			25	2580	37850	21.44	22	0-2	
				2595	38000	21.37	22	0-2	
				2610	38150	21.42	22	0-2	
			50	2580	37850	21.45	22	0-2	
				2595	38000	21.51	22	0-2	
				2610	38150	21.39	22	0-2	
	100RB		2580	37850	21.46	22	0-2		
			2595	38000	21.48	22	0-2		
			2610	38150	21.38	22	0-2		

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TDD Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	2577.5	37825	23.51	24	0	
				2595	38000	23.42	24	0	
				2612.5	38175	23.52	24	0	
			36	2577.5	37825	23.47	24	0	
				2595	38000	23.41	24	0	
				2612.5	38175	23.47	24	0	
		74	2577.5	37825	23.55	24	0		
			2595	38000	23.38	24	0		
			2612.5	38175	23.45	24	0		
		36 RB	0	2577.5	37825	22.46	23	0-1	
				2595	38000	22.32	23	0-1	
				2612.5	38175	22.42	23	0-1	
			18	2577.5	37825	22.47	23	0-1	
				2595	38000	22.46	23	0-1	
				2612.5	38175	22.41	23	0-1	
			37	2577.5	37825	22.37	23	0-1	
				2595	38000	22.45	23	0-1	
				2612.5	38175	22.31	23	0-1	
			75RB	2577.5	37825	22.46	23	0-1	
				2595	38000	22.33	23	0-1	
				2612.5	38175	22.28	23	0-1	
		16-QAM	1 RB	0	2577.5	37825	22.37	23	0-1
					2595	38000	22.29	23	0-1
					2612.5	38175	22.26	23	0-1
	36			2577.5	37825	22.35	23	0-1	
				2595	38000	22.29	23	0-1	
				2612.5	38175	22.24	23	0-1	
	74			2577.5	37825	22.25	23	0-1	
				2595	38000	22.42	23	0-1	
				2612.5	38175	22.28	23	0-1	
	36 RB			0	2577.5	37825	21.39	22	0-2
					2595	38000	21.21	22	0-2
					2612.5	38175	21.10	22	0-2
			18	2577.5	37825	21.40	22	0-2	
				2595	38000	21.29	22	0-2	
				2612.5	38175	21.31	22	0-2	
			37	2577.5	37825	21.40	22	0-2	
				2595	38000	21.30	22	0-2	
				2612.5	38175	21.31	22	0-2	
	75RB		2577.5	37825	21.27	22	0-2		
			2595	38000	21.31	22	0-2		
			2612.5	38175	21.23	22	0-2		

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TDD Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	2575	37800	23.62	24	0	
				2595	38000	23.50	24	0	
				2615	38200	23.35	24	0	
			25	2575	37800	23.53	24	0	
				2595	38000	23.48	24	0	
				2615	38200	23.39	24	0	
			49	2575	37800	23.47	24	0	
				2595	38000	23.44	24	0	
				2615	38200	23.32	24	0	
		25 RB	0	2575	37800	22.38	23	0-1	
				2595	38000	22.41	23	0-1	
				2615	38200	22.30	23	0-1	
			12	2575	37800	22.35	23	0-1	
				2595	38000	22.39	23	0-1	
				2615	38200	22.33	23	0-1	
			25	2575	37800	22.45	23	0-1	
				2595	38000	22.46	23	0-1	
				2615	38200	22.30	23	0-1	
		50RB	2575	37800	22.32	23	0-1		
			2595	38000	22.32	23	0-1		
			2615	38200	22.42	23	0-1		
		16-QAM	1 RB	0	2575	37800	22.32	23	0-1
					2595	38000	22.18	23	0-1
					2615	38200	22.22	23	0-1
	25			2575	37800	22.29	23	0-1	
				2595	38000	22.18	23	0-1	
				2615	38200	22.41	23	0-1	
	49			2575	37800	22.28	23	0-1	
				2595	38000	22.33	23	0-1	
				2615	38200	22.42	23	0-1	
	25 RB			0	2575	37800	21.34	22	0-2
					2595	38000	21.33	22	0-2
					2615	38200	21.14	22	0-2
			12	2575	37800	21.34	22	0-2	
				2595	38000	21.33	22	0-2	
				2615	38200	21.26	22	0-2	
			25	2575	37800	21.30	22	0-2	
				2595	38000	21.47	22	0-2	
				2615	38200	21.18	22	0-2	
	50RB		2575	37800	21.28	22	0-2		
			2595	38000	21.29	22	0-2		
			2615	38200	21.30	22	0-2		

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TDD Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	2572.5	37775	23.61	24	0	
				2595	38000	23.44	24	0	
				2617.5	38225	23.37	24	0	
			12	2572.5	37775	23.59	24	0	
				2595	38000	23.36	24	0	
				2617.5	38225	23.48	24	0	
		24	2572.5	37775	23.59	24	0		
			2595	38000	23.55	24	0		
			2617.5	38225	23.31	24	0		
		12 RB	0	2572.5	37775	22.50	23	0-1	
				2595	38000	22.48	23	0-1	
				2617.5	38225	22.36	23	0-1	
			6	2572.5	37775	22.36	23	0-1	
				2595	38000	22.35	23	0-1	
				2617.5	38225	22.32	23	0-1	
			13	2572.5	37775	22.41	23	0-1	
				2595	38000	22.48	23	0-1	
				2617.5	38225	22.28	23	0-1	
		25RB	2572.5	37775	22.35	23	0-1		
			2595	38000	22.37	23	0-1		
			2617.5	38225	22.43	23	0-1		
		16-QAM	1 RB	0	2572.5	37775	22.39	23	0-1
					2595	38000	22.24	23	0-1
					2617.5	38225	22.23	23	0-1
	12			2572.5	37775	22.26	23	0-1	
				2595	38000	22.30	23	0-1	
				2617.5	38225	22.41	23	0-1	
	24			2572.5	37775	22.26	23	0-1	
				2595	38000	22.42	23	0-1	
				2617.5	38225	22.37	23	0-1	
	12 RB			0	2572.5	37775	21.40	22	0-2
					2595	38000	21.23	22	0-2
					2617.5	38225	21.12	22	0-2
			6	2572.5	37775	21.40	22	0-2	
				2595	38000	21.29	22	0-2	
				2617.5	38225	21.24	22	0-2	
			13	2572.5	37775	21.35	22	0-2	
				2595	38000	21.39	22	0-2	
				2617.5	38225	21.17	22	0-2	
	25RB		2572.5	37775	21.36	22	0-2		
			2595	38000	21.40	22	0-2		
			2617.5	38225	21.18	22	0-2		

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	2506	39750	23.15	24	0
				2549.5	40185	23.21	24	0
				2593	40620	23.19	24	0
				2636.5	41055	23.32	24	0
				2680	41490	23.36	24	0
			50	2506	39750	23.10	24	0
				2549.5	40185	23.09	24	0
				2593	40620	23.15	24	0
				2636.5	41055	23.24	24	0
			99	2506	39750	23.11	24	0
				2549.5	40185	23.12	24	0
				2593	40620	23.26	24	0
		2636.5		41055	23.32	24	0	
		50 RB	0	2506	39750	22.19	23	0-1
				2549.5	40185	22.16	23	0-1
				2593	40620	22.13	23	0-1
				2636.5	41055	22.26	23	0-1
				2680	41490	22.34	23	0-1
			25	2506	39750	22.15	23	0-1
				2549.5	40185	22.14	23	0-1
				2593	40620	22.11	23	0-1
				2636.5	41055	22.23	23	0-1
			50	2506	39750	22.16	23	0-1
				2549.5	40185	22.12	23	0-1
				2593	40620	22.14	23	0-1
				2636.5	41055	22.24	23	0-1
			100RB	2506	39750	22.22	23	0-1
				2549.5	40185	22.14	23	0-1
				2593	40620	22.24	23	0-1
		2636.5		41055	22.27	23	0-1	
		2680		41490	22.45	23	0-1	

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	16-QAM	1 RB	0	2506	39750	22.08	23	0-1
				2549.5	40185	22.27	23	0-1
				2593	40620	22.29	23	0-1
				2636.5	41055	22.38	23	0-1
				2680	41490	22.43	23	0-1
			50	2506	39750	22.08	23	0-1
				2549.5	40185	22.17	23	0-1
				2593	40620	22.25	23	0-1
				2636.5	41055	22.34	23	0-1
			99	2506	39750	22.13	23	0-1
				2549.5	40185	22.19	23	0-1
				2593	40620	22.35	23	0-1
		2636.5		41055	22.42	23	0-1	
		50 RB	0	2506	39750	21.24	22	0-2
				2549.5	40185	21.25	22	0-2
				2593	40620	21.24	22	0-2
				2636.5	41055	21.34	22	0-2
			25	2680	41490	21.39	22	0-2
				2506	39750	21.21	22	0-2
				2549.5	40185	21.16	22	0-2
				2593	40620	21.27	22	0-2
			50	2636.5	41055	21.31	22	0-2
				2680	41490	21.35	22	0-2
				2506	39750	21.22	22	0-2
				2549.5	40185	21.15	22	0-2
			100RB	2593	40620	21.30	22	0-2
				2636.5	41055	21.29	22	0-2
				2680	41490	21.35	22	0-2
				2506	39750	21.24	22	0-2
			2549.5	40185	21.13	22	0-2	
			2593	40620	21.23	22	0-2	
			2636.5	41055	21.28	22	0-2	
2680	41490		21.33	22	0-2			

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	2503.5	39725	23.01	24	0
				2548.3	40173	23.13	24	0
				2593	40620	23.03	24	0
				2637.8	41068	23.16	24	0
				2682.5	41515	23.24	24	0
			36	2503.5	39725	23.05	24	0
				2548.3	40173	23.05	24	0
				2593	40620	22.99	24	0
				2637.8	41068	23.04	24	0
			74	2503.5	39725	23.08	24	0
				2548.3	40173	22.92	24	0
				2593	40620	23.19	24	0
		2637.8		41068	23.15	24	0	
		36 RB	0	2503.5	39725	22.12	23	0-1
				2548.3	40173	22.05	23	0-1
				2593	40620	21.93	23	0-1
				2637.8	41068	22.22	23	0-1
				2682.5	41515	22.15	23	0-1
			18	2503.5	39725	22.02	23	0-1
				2548.3	40173	22.11	23	0-1
				2593	40620	21.94	23	0-1
				2637.8	41068	22.02	23	0-1
			37	2503.5	39725	22.08	23	0-1
				2548.3	40173	22.04	23	0-1
				2593	40620	22.07	23	0-1
				2637.8	41068	22.17	23	0-1
			75RB	2503.5	39725	22.16	23	0-1
				2548.3	40173	22.04	23	0-1
				2593	40620	22.17	23	0-1
		2637.8		41068	22.22	23	0-1	
		2682.5		41515	22.26	23	0-1	

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TDD Band 41									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	16-QAM	1 RB	0	2503.5	39725	21.97	23	0-1	
				2548.3	40173	22.15	23	0-1	
				2593	40620	22.12	23	0-1	
				2637.8	41068	22.31	23	0-1	
				2682.5	41515	22.22	23	0-1	
			36	2503.5	39725	21.95	23	0-1	
				2548.3	40173	22.10	23	0-1	
				2593	40620	22.10	23	0-1	
				2637.8	41068	22.32	23	0-1	
				2682.5	41515	22.22	23	0-1	
				74	2503.5	39725	22.01	23	0-1
					2548.3	40173	22.08	23	0-1
		2593	40620		22.27	23	0-1		
		2637.8	41068		22.40	23	0-1		
		2682.5	41515		22.05	23	0-1		
		36 RB	0	2503.5	39725	21.05	22	0-2	
				2548.3	40173	21.13	22	0-2	
				2593	40620	21.21	22	0-2	
				2637.8	41068	21.29	22	0-2	
				2682.5	41515	21.20	22	0-2	
			18	2503.5	39725	21.00	22	0-2	
				2548.3	40173	21.14	22	0-2	
				2593	40620	21.21	22	0-2	
				2637.8	41068	21.19	22	0-2	
				2682.5	41515	21.31	22	0-2	
				37	2503.5	39725	21.07	22	0-2
					2548.3	40173	21.08	22	0-2
			2593		40620	21.19	22	0-2	
			2637.8		41068	21.24	22	0-2	
			2682.5		41515	21.29	22	0-2	
			75RB		2503.5	39725	21.04	22	0-2
				2548.3	40173	21.10	22	0-2	
2593	40620			21.06	22	0-2			
2637.8	41068	21.08		22	0-2				
2682.5	41515	21.18		22	0-2				

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	2501	39700	22.95	24	0
				2547	40160	23.07	24	0
				2593	40620	22.98	24	0
				2639	41080	23.00	24	0
				2685	41540	23.15	24	0
			25	2501	39700	22.96	24	0
				2547	40160	22.84	24	0
				2593	40620	22.90	24	0
				2639	41080	22.92	24	0
				2685	41540	22.85	24	0
			49	2501	39700	23.02	24	0
				2547	40160	22.87	24	0
		2593		40620	23.11	24	0	
		2639		41080	23.10	24	0	
		2685		41540	22.95	24	0	
		25 RB	0	2501	39700	21.93	23	0-1
				2547	40160	21.97	23	0-1
				2593	40620	21.89	23	0-1
				2639	41080	22.03	23	0-1
				2685	41540	22.07	23	0-1
			12	2501	39700	21.83	23	0-1
				2547	40160	21.97	23	0-1
				2593	40620	21.80	23	0-1
				2639	41080	21.85	23	0-1
				2685	41540	21.99	23	0-1
			25	2501	39700	21.90	23	0-1
				2547	40160	21.86	23	0-1
				2593	40620	21.97	23	0-1
				2639	41080	22.09	23	0-1
				2685	41540	22.10	23	0-1
		50RB	2501	39700	22.14	23	0-1	
			2547	40160	21.92	23	0-1	
2593	40620		22.01	23	0-1			
2639	41080		22.04	23	0-1			
2685	41540		22.07	23	0-1			

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	16-QAM	1 RB	0	2501	39700	21.83	23	0-1
				2547	40160	21.99	23	0-1
				2593	40620	21.94	23	0-1
				2639	41080	22.23	23	0-1
			2685	41540	22.04	23	0-1	
			25	2501	39700	21.91	23	0-1
				2547	40160	21.96	23	0-1
				2593	40620	22.01	23	0-1
				2639	41080	22.15	23	0-1
			2685	41540	22.02	23	0-1	
			49	2501	39700	21.90	23	0-1
				2547	40160	21.94	23	0-1
		2593		40620	22.14	23	0-1	
		2639		41080	22.34	23	0-1	
		2685	41540	22.02	23	0-1		
		25 RB	0	2501	39700	20.84	22	0-2
				2547	40160	21.02	22	0-2
				2593	40620	21.04	22	0-2
				2639	41080	21.27	22	0-2
			2685	41540	21.16	22	0-2	
			12	2501	39700	20.85	22	0-2
				2547	40160	20.97	22	0-2
				2593	40620	21.06	22	0-2
				2639	41080	21.13	22	0-2
			2685	41540	21.29	22	0-2	
			25	2501	39700	20.95	22	0-2
				2547	40160	20.89	22	0-2
		2593		40620	21.17	22	0-2	
		2639		41080	21.14	22	0-2	
		2685	41540	21.20	22	0-2		
		50RB	2501	39700	20.85	22	0-2	
			2547	40160	21.06	22	0-2	
2593	40620		20.91	22	0-2			
2639	41080		21.03	22	0-2			
2685	41540		21.12	22	0-2			

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	2498.5	39675	23.29	24	0
				2547.8	40148	23.32	24	0
				2593	40620	23.29	24	0
				2640.3	41093	23.30	24	0
			2687.5	41565	23.32	24	0	
			12	2498.5	39675	23.26	24	0
				2547.8	40148	23.27	24	0
				2593	40620	23.26	24	0
				2640.3	41093	23.26	24	0
			24	2687.5	41565	23.27	24	0
				2498.5	39675	23.23	24	0
				2547.8	40148	23.31	24	0
		2593		40620	23.30	24	0	
		12 RB	0	2640.3	41093	23.29	24	0
				2687.5	41565	23.30	24	0
				2498.5	39675	22.32	23	0-1
				2547.8	40148	22.34	23	0-1
			6	2593	40620	22.29	23	0-1
				2640.3	41093	22.35	23	0-1
				2687.5	41565	22.38	23	0-1
				2498.5	39675	22.29	23	0-1
			13	2547.8	40148	22.30	23	0-1
				2593	40620	22.28	23	0-1
				2640.3	41093	22.33	23	0-1
				2687.5	41565	22.37	23	0-1
		25RB	2498.5	39675	22.29	23	0-1	
			2547.8	40148	22.31	23	0-1	
			2593	40620	22.29	23	0-1	
			2640.3	41093	22.28	23	0-1	
			2687.5	41565	22.38	23	0-1	
		25RB	2498.5	39675	22.26	23	0-1	
			2547.8	40148	22.27	23	0-1	
2593	40620		22.25	23	0-1			
2640.3	41093		22.28	23	0-1			
2687.5	41565		22.32	23	0-1			

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	16-QAM	1 RB	0	2498.5	39675	22.13	23	0-1
				2547.8	40148	22.25	23	0-1
				2593	40620	22.23	23	0-1
				2640.3	41093	22.28	23	0-1
			2687.5	41565	22.25	23	0-1	
			12	2498.5	39675	22.11	23	0-1
				2547.8	40148	22.21	23	0-1
				2593	40620	22.20	23	0-1
				2640.3	41093	22.26	23	0-1
			2687.5	41565	22.21	23	0-1	
			24	2498.5	39675	22.14	23	0-1
				2547.8	40148	22.25	23	0-1
		2593		40620	22.23	23	0-1	
		2640.3		41093	22.27	23	0-1	
		2687.5	41565	22.21	23	0-1		
		12 RB	0	2498.5	39675	21.31	22	0-2
				2547.8	40148	21.33	22	0-2
				2593	40620	21.29	22	0-2
				2640.3	41093	21.37	22	0-2
			2687.5	41565	21.35	22	0-2	
			6	2498.5	39675	21.30	22	0-2
				2547.8	40148	21.31	22	0-2
				2593	40620	21.28	22	0-2
				2640.3	41093	21.36	22	0-2
			2687.5	41565	21.34	22	0-2	
			13	2498.5	39675	21.33	22	0-2
				2547.8	40148	21.32	22	0-2
		2593		40620	21.29	22	0-2	
		2640.3		41093	21.36	22	0-2	
		2687.5	41565	21.34	22	0-2		
		25RB	2498.5	39675	21.35	22	0-2	
			2547.8	40148	21.33	22	0-2	
2593	40620		21.32	22	0-2			
2640.3	41093		21.37	22	0-2			
2687.5	41565		21.41	22	0-2			

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**LTE FDD Band 2 / Band 4 / Band 5 / Band 7/ Band 12 / Band 13 / Band 17 / Band 26 / Band 66 power table (Reduced power):**

FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	1860	18700	19.47	19.5	0	
				1880	18900	19.32	19.5	0	
				1900	19100	19.16	19.5	0	
			50	1860	18700	19.13	19.5	0	
				1880	18900	19.42	19.5	0	
				1900	19100	19.45	19.5	0	
			99	1860	18700	19.38	19.5	0	
				1880	18900	19.44	19.5	0	
				1900	19100	19.41	19.5	0	
		50 RB	0	1860	18700	19.23	19.5	0	
				1880	18900	19.46	19.5	0	
				1900	19100	19.38	19.5	0	
			25	1860	18700	19.27	19.5	0	
				1880	18900	19.23	19.5	0	
				1900	19100	19.42	19.5	0	
			50	1860	18700	19.44	19.5	0	
				1880	18900	19.22	19.5	0	
				1900	19100	19.25	19.5	0	
		100RB	1860	18700	19.25	19.5	0		
			1880	18900	19.33	19.5	0		
			1900	19100	19.22	19.5	0		
		16-QAM	1 RB	0	1860	18700	19.33	19.5	0
					1880	18900	19.17	19.5	0
					1900	19100	19.16	19.5	0
	50			1860	18700	19.13	19.5	0	
				1880	18900	19.34	19.5	0	
				1900	19100	19.31	19.5	0	
	99			1860	18700	19.41	19.5	0	
				1880	18900	19.45	19.5	0	
				1900	19100	19.28	19.5	0	
	50 RB		0	1860	18700	19.13	19.5	0	
				1880	18900	19.25	19.5	0	
				1900	19100	19.22	19.5	0	
			25	1860	18700	19.11	19.5	0	
				1880	18900	19.13	19.5	0	
				1900	19100	19.21	19.5	0	
			50	1860	18700	19.03	19.5	0	
				1880	18900	19.02	19.5	0	
				1900	19100	19.14	19.5	0	
	100RB		1860	18700	19.05	19.5	0		
			1880	18900	19.23	19.5	0		
			1900	19100	19.12	19.5	0		

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	1857.5	18675	19.28	19.5	0	
				1880	18900	19.26	19.5	0	
				1902.5	19125	19.12	19.5	0	
			36	1857.5	18675	18.95	19.5	0	
				1880	18900	19.25	19.5	0	
				1902.5	19125	19.31	19.5	0	
			74	1857.5	18675	19.21	19.5	0	
				1880	18900	19.24	19.5	0	
				1902.5	19125	19.36	19.5	0	
		36 RB	0	1857.5	18675	19.13	19.5	0	
				1880	18900	19.38	19.5	0	
				1902.5	19125	19.20	19.5	0	
			18	1857.5	18675	19.21	19.5	0	
				1880	18900	19.12	19.5	0	
				1902.5	19125	19.29	19.5	0	
			37	1857.5	18675	19.35	19.5	0	
				1880	18900	19.08	19.5	0	
				1902.5	19125	19.03	19.5	0	
		75RB	1857.5	18675	19.10	19.5	0		
			1880	18900	19.11	19.5	0		
			1902.5	19125	19.05	19.5	0		
		16-QAM	1 RB	0	1857.5	18675	19.15	19.5	0
					1880	18900	18.98	19.5	0
					1902.5	19125	18.98	19.5	0
	36			1857.5	18675	19.00	19.5	0	
				1880	18900	19.22	19.5	0	
				1902.5	19125	19.09	19.5	0	
	74			1857.5	18675	19.19	19.5	0	
				1880	18900	19.31	19.5	0	
				1902.5	19125	19.19	19.5	0	
	36 RB			0	1857.5	18675	19.10	19.5	0
					1880	18900	19.13	19.5	0
					1902.5	19125	19.12	19.5	0
			18	1857.5	18675	18.89	19.5	0	
				1880	18900	19.02	19.5	0	
				1902.5	19125	19.09	19.5	0	
			37	1857.5	18675	18.84	19.5	0	
				1880	18900	18.92	19.5	0	
				1902.5	19125	18.92	19.5	0	
	75RB		1857.5	18675	18.83	19.5	0		
			1880	18900	19.02	19.5	0		
			1902.5	19125	18.97	19.5	0		

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	1855	18650	19.35	19.5	0	
				1880	18900	19.25	19.5	0	
				1905	19150	18.95	19.5	0	
			25	1855	18650	18.92	19.5	0	
				1880	18900	19.39	19.5	0	
				1905	19150	19.38	19.5	0	
			49	1855	18650	19.26	19.5	0	
				1880	18900	19.39	19.5	0	
				1905	19150	19.23	19.5	0	
		25 RB	0	1855	18650	19.08	19.5	0	
				1880	18900	19.34	19.5	0	
				1905	19150	19.35	19.5	0	
			12	1855	18650	19.07	19.5	0	
				1880	18900	19.05	19.5	0	
				1905	19150	19.30	19.5	0	
			25	1855	18650	19.31	19.5	0	
				1880	18900	19.04	19.5	0	
				1905	19150	19.11	19.5	0	
		50RB	1855	18650	19.21	19.5	0		
			1880	18900	19.27	19.5	0		
			1905	19150	19.19	19.5	0		
		16-QAM	1 RB	0	1855	18650	19.24	19.5	0
					1880	18900	19.03	19.5	0
					1905	19150	18.96	19.5	0
	25			1855	18650	19.06	19.5	0	
				1880	18900	19.15	19.5	0	
				1905	19150	19.22	19.5	0	
	49			1855	18650	19.20	19.5	0	
				1880	18900	19.27	19.5	0	
				1905	19150	19.12	19.5	0	
	25 RB			0	1855	18650	18.99	19.5	0
					1880	18900	19.03	19.5	0
					1905	19150	19.07	19.5	0
			12	1855	18650	19.08	19.5	0	
				1880	18900	18.98	19.5	0	
				1905	19150	19.13	19.5	0	
			25	1855	18650	18.92	19.5	0	
				1880	18900	18.97	19.5	0	
				1905	19150	19.00	19.5	0	
	50RB		1855	18650	18.91	19.5	0		
			1880	18900	19.18	19.5	0		
			1905	19150	19.02	19.5	0		

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	1852.5	18625	19.34	19.5	0	
				1880	18900	19.25	19.5	0	
				1907.5	19175	19.04	19.5	0	
			12	1852.5	18625	19.09	19.5	0	
				1880	18900	19.29	19.5	0	
				1907.5	19175	19.36	19.5	0	
			24	1852.5	18625	19.26	19.5	0	
				1880	18900	19.36	19.5	0	
				1907.5	19175	19.37	19.5	0	
		12 RB	0	1852.5	18625	19.08	19.5	0	
				1880	18900	19.24	19.5	0	
				1907.5	19175	19.18	19.5	0	
			6	1852.5	18625	19.17	19.5	0	
				1880	18900	19.11	19.5	0	
				1907.5	19175	19.34	19.5	0	
			13	1852.5	18625	19.22	19.5	0	
				1880	18900	19.13	19.5	0	
				1907.5	19175	19.18	19.5	0	
		25RB	1852.5	18625	19.22	19.5	0		
			1880	18900	19.26	19.5	0		
			1907.5	19175	19.10	19.5	0		
		16-QAM	1 RB	0	1852.5	18625	19.28	19.5	0
					1880	18900	18.98	19.5	0
					1907.5	19175	18.98	19.5	0
	12			1852.5	18625	18.91	19.5	0	
				1880	18900	19.20	19.5	0	
				1907.5	19175	19.20	19.5	0	
	24			1852.5	18625	19.19	19.5	0	
				1880	18900	19.27	19.5	0	
				1907.5	19175	19.21	19.5	0	
	12 RB			0	1852.5	18625	18.99	19.5	0
					1880	18900	19.22	19.5	0
					1907.5	19175	19.09	19.5	0
			6	1852.5	18625	19.08	19.5	0	
				1880	18900	19.04	19.5	0	
				1907.5	19175	18.99	19.5	0	
			13	1852.5	18625	18.83	19.5	0	
				1880	18900	18.95	19.5	0	
				1907.5	19175	19.00	19.5	0	
	25RB		1852.5	18625	18.94	19.5	0		
			1880	18900	19.08	19.5	0		
			1907.5	19175	18.93	19.5	0		

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	1851.5	18615	19.28	19.5	0	
				1880	18900	19.14	19.5	0	
				1908.5	19185	19.09	19.5	0	
			7	1851.5	18615	19.05	19.5	0	
				1880	18900	19.32	19.5	0	
				1908.5	19185	19.31	19.5	0	
		14	1851.5	18615	19.25	19.5	0		
			1880	18900	19.39	19.5	0		
			1908.5	19185	19.22	19.5	0		
		8 RB	0	1851.5	18615	19.06	19.5	0	
				1880	18900	19.31	19.5	0	
				1908.5	19185	19.18	19.5	0	
			4	1851.5	18615	19.23	19.5	0	
				1880	18900	19.15	19.5	0	
				1908.5	19185	19.26	19.5	0	
		7	1851.5	18615	19.39	19.5	0		
			1880	18900	19.15	19.5	0		
			1908.5	19185	19.22	19.5	0		
		15RB	1851.5	18615	19.11	19.5	0		
			1880	18900	19.17	19.5	0		
			1908.5	19185	19.19	19.5	0		
		16-QAM	1 RB	0	1851.5	18615	19.14	19.5	0
					1880	18900	19.05	19.5	0
					1908.5	19185	19.06	19.5	0
	7			1851.5	18615	19.04	19.5	0	
				1880	18900	19.14	19.5	0	
				1908.5	19185	19.12	19.5	0	
	14			1851.5	18615	19.22	19.5	0	
				1880	18900	19.39	19.5	0	
				1908.5	19185	19.11	19.5	0	
	8 RB			0	1851.5	18615	18.92	19.5	0
					1880	18900	19.22	19.5	0
					1908.5	19185	19.02	19.5	0
			4	1851.5	18615	18.98	19.5	0	
				1880	18900	19.07	19.5	0	
				1908.5	19185	19.18	19.5	0	
	7		1851.5	18615	18.81	19.5	0		
			1880	18900	18.83	19.5	0		
			1908.5	19185	18.99	19.5	0		
	15RB		1851.5	18615	19.02	19.5	0		
			1880	18900	19.18	19.5	0		
			1908.5	19185	19.00	19.5	0		

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1850.7	18607	19.25	19.5	0	
				1880	18900	19.20	19.5	0	
				1909.3	19193	18.96	19.5	0	
			2	1850.7	18607	19.00	19.5	0	
				1880	18900	19.23	19.5	0	
				1909.3	19193	19.39	19.5	0	
		5	1850.7	18607	19.33	19.5	0		
			1880	18900	19.28	19.5	0		
			1909.3	19193	19.32	19.5	0		
		3 RB	0	1850.7	18607	19.07	19.5	0	
				1880	18900	19.39	19.5	0	
				1909.3	19193	19.29	19.5	0	
			2	1850.7	18607	19.22	19.5	0	
				1880	18900	19.05	19.5	0	
				1909.3	19193	19.28	19.5	0	
			3	1850.7	18607	19.25	19.5	0	
				1880	18900	19.03	19.5	0	
				1909.3	19193	19.21	19.5	0	
		6RB	1850.7	18607	19.09	19.5	0		
			1880	18900	19.18	19.5	0		
			1909.3	19193	19.15	19.5	0		
		16-QAM	1 RB	0	1850.7	18607	19.22	19.5	0
					1880	18900	19.14	19.5	0
					1909.3	19193	19.04	19.5	0
	2			1850.7	18607	18.95	19.5	0	
				1880	18900	19.13	19.5	0	
				1909.3	19193	19.16	19.5	0	
	5			1850.7	18607	19.25	19.5	0	
				1880	18900	19.29	19.5	0	
				1909.3	19193	19.18	19.5	0	
	3 RB			0	1850.7	18607	18.94	19.5	0
					1880	18900	19.19	19.5	0
					1909.3	19193	19.04	19.5	0
			2	1850.7	18607	18.97	19.5	0	
				1880	18900	18.99	19.5	0	
				1909.3	19193	19.15	19.5	0	
			3	1850.7	18607	18.93	19.5	0	
				1880	18900	18.92	19.5	0	
				1909.3	19193	19.01	19.5	0	
	6RB		1850.7	18607	18.90	19.5	0		
			1880	18900	19.20	19.5	0		
			1909.3	19193	19.07	19.5	0		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	1720	20050	20.41	20.5	0	
				1732.5	20175	20.45	20.5	0	
				1745	20300	20.48	20.5	0	
			50	1720	20050	20.49	20.5	0	
				1732.5	20175	20.35	20.5	0	
				1745	20300	20.42	20.5	0	
			99	1720	20050	20.43	20.5	0	
				1732.5	20175	20.47	20.5	0	
				1745	20300	20.46	20.5	0	
		50 RB	0	1720	20050	20.41	20.5	0	
				1732.5	20175	20.32	20.5	0	
				1745	20300	20.19	20.5	0	
			25	1720	20050	20.35	20.5	0	
				1732.5	20175	20.16	20.5	0	
				1745	20300	20.28	20.5	0	
			50	1720	20050	20.28	20.5	0	
				1732.5	20175	20.19	20.5	0	
				1745	20300	20.48	20.5	0	
		100RB	1720	20050	20.38	20.5	0		
			1732.5	20175	20.25	20.5	0		
			1745	20300	20.44	20.5	0		
		16-QAM	1 RB	0	1720	20050	20.32	20.5	0
					1732.5	20175	20.36	20.5	0
					1745	20300	20.24	20.5	0
	50			1720	20050	20.31	20.5	0	
				1732.5	20175	20.11	20.5	0	
				1745	20300	20.14	20.5	0	
	99			1720	20050	20.19	20.5	0	
				1732.5	20175	20.07	20.5	0	
				1745	20300	20.41	20.5	0	
	50 RB			0	1720	20050	20.37	20.5	0
					1732.5	20175	20.24	20.5	0
					1745	20300	20.14	20.5	0
			25	1720	20050	20.29	20.5	0	
				1732.5	20175	20.17	20.5	0	
				1745	20300	20.22	20.5	0	
			50	1720	20050	20.18	20.5	0	
				1732.5	20175	20.08	20.5	0	
				1745	20300	20.41	20.5	0	
	100RB		1720	20050	20.42	20.5	0		
			1732.5	20175	20.21	20.5	0		
			1745	20300	20.39	20.5	0		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	1717.5	20025	20.22	20.5	0	
				1732.5	20175	20.37	20.5	0	
				1747.5	20325	20.40	20.5	0	
			36	1717.5	20025	20.35	20.5	0	
				1732.5	20175	20.13	20.5	0	
				1747.5	20325	20.32	20.5	0	
			74	1717.5	20025	20.30	20.5	0	
				1732.5	20175	20.25	20.5	0	
				1747.5	20325	20.34	20.5	0	
		36 RB	0	1717.5	20025	20.35	20.5	0	
				1732.5	20175	20.15	20.5	0	
				1747.5	20325	20.11	20.5	0	
			18	1717.5	20025	20.17	20.5	0	
				1732.5	20175	20.03	20.5	0	
				1747.5	20325	20.17	20.5	0	
			37	1717.5	20025	20.25	20.5	0	
				1732.5	20175	19.97	20.5	0	
				1747.5	20325	20.37	20.5	0	
		75RB	1717.5	20025	20.22	20.5	0		
			1732.5	20175	20.05	20.5	0		
			1747.5	20325	20.36	20.5	0		
		16-QAM	1 RB	0	1717.5	20025	20.12	20.5	0
					1732.5	20175	20.33	20.5	0
					1747.5	20325	20.06	20.5	0
	36			1717.5	20025	20.26	20.5	0	
				1732.5	20175	19.97	20.5	0	
				1747.5	20325	20.01	20.5	0	
	74			1717.5	20025	20.08	20.5	0	
				1732.5	20175	19.95	20.5	0	
				1747.5	20325	20.36	20.5	0	
	36 RB			0	1717.5	20025	20.33	20.5	0
					1732.5	20175	20.21	20.5	0
					1747.5	20325	20.00	20.5	0
			18	1717.5	20025	20.11	20.5	0	
				1732.5	20175	19.99	20.5	0	
				1747.5	20325	20.02	20.5	0	
			37	1717.5	20025	20.12	20.5	0	
				1732.5	20175	20.00	20.5	0	
				1747.5	20325	20.30	20.5	0	
	75RB		1717.5	20025	20.23	20.5	0		
			1732.5	20175	20.01	20.5	0		
			1747.5	20325	20.36	20.5	0		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	1715	20000	20.22	20.5	0	
				1732.5	20175	20.35	20.5	0	
				1750	20350	20.41	20.5	0	
			25	1715	20000	20.41	20.5	0	
				1732.5	20175	20.17	20.5	0	
				1750	20350	20.22	20.5	0	
			49	1715	20000	20.30	20.5	0	
				1732.5	20175	20.38	20.5	0	
				1750	20350	20.27	20.5	0	
		25 RB	0	1715	20000	20.34	20.5	0	
				1732.5	20175	20.13	20.5	0	
				1750	20350	19.99	20.5	0	
			12	1715	20000	20.30	20.5	0	
				1732.5	20175	20.07	20.5	0	
				1750	20350	20.19	20.5	0	
			25	1715	20000	20.12	20.5	0	
				1732.5	20175	20.00	20.5	0	
				1750	20350	20.39	20.5	0	
		50RB	1715	20000	20.20	20.5	0		
			1732.5	20175	20.08	20.5	0		
			1750	20350	20.32	20.5	0		
		16-QAM	1 RB	0	1715	20000	20.19	20.5	0
					1732.5	20175	20.14	20.5	0
					1750	20350	20.06	20.5	0
	25			1715	20000	20.13	20.5	0	
				1732.5	20175	19.98	20.5	0	
				1750	20350	19.97	20.5	0	
	49			1715	20000	20.03	20.5	0	
				1732.5	20175	20.01	20.5	0	
				1750	20350	20.36	20.5	0	
	25 RB			0	1715	20000	20.26	20.5	0
					1732.5	20175	20.14	20.5	0
					1750	20350	20.01	20.5	0
			12	1715	20000	20.08	20.5	0	
				1732.5	20175	19.97	20.5	0	
				1750	20350	20.14	20.5	0	
			25	1715	20000	20.08	20.5	0	
				1732.5	20175	19.97	20.5	0	
				1750	20350	20.35	20.5	0	
	50RB		1715	20000	20.27	20.5	0		
			1732.5	20175	20.09	20.5	0		
			1750	20350	20.19	20.5	0		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	1712.5	19975	20.25	20.5	0	
				1732.5	20175	20.42	20.5	0	
				1752.5	20375	20.34	20.5	0	
			12	1712.5	19975	20.33	20.5	0	
				1732.5	20175	20.20	20.5	0	
				1752.5	20375	20.21	20.5	0	
		24	1712.5	19975	20.22	20.5	0		
			1732.5	20175	20.35	20.5	0		
			1752.5	20375	20.37	20.5	0		
		12 RB	0	1712.5	19975	20.37	20.5	0	
				1732.5	20175	20.28	20.5	0	
				1752.5	20375	20.00	20.5	0	
			6	1712.5	19975	20.30	20.5	0	
				1732.5	20175	20.05	20.5	0	
				1752.5	20375	20.06	20.5	0	
			13	1712.5	19975	20.23	20.5	0	
				1732.5	20175	20.11	20.5	0	
				1752.5	20375	20.27	20.5	0	
		25RB	1712.5	19975	20.26	20.5	0		
			1732.5	20175	20.21	20.5	0		
			1752.5	20375	20.31	20.5	0		
		16-QAM	1 RB	0	1712.5	19975	20.20	20.5	0
					1732.5	20175	20.14	20.5	0
					1752.5	20375	20.17	20.5	0
	12			1712.5	19975	20.16	20.5	0	
				1732.5	20175	19.94	20.5	0	
				1752.5	20375	19.95	20.5	0	
	24			1712.5	19975	20.06	20.5	0	
				1732.5	20175	19.89	20.5	0	
				1752.5	20375	20.23	20.5	0	
	12 RB			0	1712.5	19975	20.25	20.5	0
					1732.5	20175	20.07	20.5	0
					1752.5	20375	19.92	20.5	0
			6	1712.5	19975	20.26	20.5	0	
				1732.5	20175	20.00	20.5	0	
				1752.5	20375	20.00	20.5	0	
			13	1712.5	19975	19.97	20.5	0	
				1732.5	20175	19.90	20.5	0	
				1752.5	20375	20.22	20.5	0	
	25RB		1712.5	19975	20.30	20.5	0		
			1732.5	20175	20.13	20.5	0		
			1752.5	20375	20.30	20.5	0		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	1711.5	19965	20.37	20.5	0	
				1732.5	20175	20.23	20.5	0	
				1753.5	20385	20.27	20.5	0	
			7	1711.5	19965	20.37	20.5	0	
				1732.5	20175	20.21	20.5	0	
				1753.5	20385	20.23	20.5	0	
		14	1711.5	19965	20.36	20.5	0		
			1732.5	20175	20.42	20.5	0		
			1753.5	20385	20.24	20.5	0		
		8 RB	0	1711.5	19965	20.38	20.5	0	
				1732.5	20175	20.24	20.5	0	
				1753.5	20385	20.01	20.5	0	
			4	1711.5	19965	20.17	20.5	0	
				1732.5	20175	19.98	20.5	0	
				1753.5	20385	20.11	20.5	0	
		7	1711.5	19965	20.12	20.5	0		
			1732.5	20175	19.98	20.5	0		
			1753.5	20385	20.27	20.5	0		
		15RB	1711.5	19965	20.32	20.5	0		
			1732.5	20175	20.16	20.5	0		
			1753.5	20385	20.33	20.5	0		
		16-QAM	1 RB	0	1711.5	19965	20.25	20.5	0
					1732.5	20175	20.26	20.5	0
					1753.5	20385	20.18	20.5	0
	7			1711.5	19965	20.13	20.5	0	
				1732.5	20175	19.96	20.5	0	
				1753.5	20385	20.03	20.5	0	
	14			1711.5	19965	20.14	20.5	0	
				1732.5	20175	19.99	20.5	0	
				1753.5	20385	20.21	20.5	0	
	8 RB			0	1711.5	19965	20.21	20.5	0
					1732.5	20175	20.05	20.5	0
					1753.5	20385	20.02	20.5	0
			4	1711.5	19965	20.17	20.5	0	
				1732.5	20175	20.01	20.5	0	
				1753.5	20385	20.10	20.5	0	
	7		1711.5	19965	20.15	20.5	0		
			1732.5	20175	20.04	20.5	0		
			1753.5	20385	20.25	20.5	0		
	15RB		1711.5	19965	20.22	20.5	0		
			1732.5	20175	20.05	20.5	0		
			1753.5	20385	20.26	20.5	0		

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1710.7	19957	20.19	20.5	0	
				1732.5	20175	20.38	20.5	0	
				1754.3	20393	20.32	20.5	0	
			2	1710.7	19957	20.29	20.5	0	
				1732.5	20175	20.29	20.5	0	
				1754.3	20393	20.37	20.5	0	
		5	1710.7	19957	20.40	20.5	0		
			1732.5	20175	20.34	20.5	0		
			1754.3	20393	20.37	20.5	0		
		3 RB	0	1710.7	19957	20.27	20.5	0	
				1732.5	20175	20.21	20.5	0	
				1754.3	20393	20.00	20.5	0	
			2	1710.7	19957	20.15	20.5	0	
				1732.5	20175	20.06	20.5	0	
				1754.3	20393	20.09	20.5	0	
			3	1710.7	19957	20.10	20.5	0	
				1732.5	20175	20.01	20.5	0	
				1754.3	20393	20.41	20.5	0	
		6RB	1710.7	19957	20.20	20.5	0		
			1732.5	20175	20.18	20.5	0		
			1754.3	20393	20.28	20.5	0		
		16-QAM	1 RB	0	1710.7	19957	20.19	20.5	0
					1732.5	20175	20.33	20.5	0
					1754.3	20393	20.11	20.5	0
	2			1710.7	19957	20.22	20.5	0	
				1732.5	20175	19.96	20.5	0	
				1754.3	20393	20.02	20.5	0	
	5			1710.7	19957	20.12	20.5	0	
				1732.5	20175	19.93	20.5	0	
				1754.3	20393	20.21	20.5	0	
	3 RB			0	1710.7	19957	20.19	20.5	0
					1732.5	20175	20.10	20.5	0
					1754.3	20393	20.03	20.5	0
			2	1710.7	19957	20.08	20.5	0	
				1732.5	20175	20.07	20.5	0	
				1754.3	20393	20.19	20.5	0	
			3	1710.7	19957	20.08	20.5	0	
				1732.5	20175	20.04	20.5	0	
				1754.3	20393	20.28	20.5	0	
	6RB		1710.7	19957	20.26	20.5	0		
			1732.5	20175	20.11	20.5	0		
			1754.3	20393	20.23	20.5	0		

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	829	20450	20.98	21	0	
				836.5	20525	20.95	21	0	
				844	20600	20.93	21	0	
			25	829	20450	20.91	21	0	
				836.5	20525	20.74	21	0	
				844	20600	20.91	21	0	
			49	829	20450	20.86	21	0	
				836.5	20525	20.89	21	0	
				844	20600	20.87	21	0	
		25 RB	0	829	20450	20.87	21	0	
				836.5	20525	20.82	21	0	
				844	20600	20.85	21	0	
			12	829	20450	20.81	21	0	
				836.5	20525	20.86	21	0	
				844	20600	20.79	21	0	
			25	829	20450	20.92	21	0	
				836.5	20525	20.87	21	0	
				844	20600	20.95	21	0	
		50RB	829	20450	20.86	21	0		
			836.5	20525	20.87	21	0		
			844	20600	20.91	21	0		
		16-QAM	1 RB	0	829	20450	20.91	21	0
					836.5	20525	20.84	21	0
					844	20600	20.82	21	0
	25			829	20450	20.75	21	0	
				836.5	20525	20.73	21	0	
				844	20600	20.69	21	0	
	49			829	20450	20.81	21	0	
				836.5	20525	20.74	21	0	
				844	20600	20.86	21	0	
	25 RB			0	829	20450	20.79	21	0
					836.5	20525	20.78	21	0
					844	20600	20.71	21	0
			12	829	20450	20.76	21	0	
				836.5	20525	20.76	21	0	
				844	20600	20.73	21	0	
			25	829	20450	20.83	21	0	
				836.5	20525	20.77	21	0	
				844	20600	20.84	21	0	
			500RB	829	20450	20.81	21	0	
				836.5	20525	20.74	21	0	
				844	20600	20.82	21	0	

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	826.5	20425	20.85	21	0	
				836.5	20525	20.72	21	0	
				846.5	20625	20.78	21	0	
			12	826.5	20425	20.77	21	0	
				836.5	20525	20.69	21	0	
				846.5	20625	20.82	21	0	
			24	826.5	20425	20.66	21	0	
				836.5	20525	20.80	21	0	
				846.5	20625	20.67	21	0	
		12 RB	0	826.5	20425	20.68	21	0	
				836.5	20525	20.66	21	0	
				846.5	20625	20.80	21	0	
			6	826.5	20425	20.65	21	0	
				836.5	20525	20.71	21	0	
				846.5	20625	20.60	21	0	
			13	826.5	20425	20.84	21	0	
				836.5	20525	20.66	21	0	
				846.5	20625	20.79	21	0	
		25RB	826.5	20425	20.81	21	0		
			836.5	20525	20.76	21	0		
			846.5	20625	20.79	21	0		
		16-QAM	1 RB	0	826.5	20425	20.70	21	0
					836.5	20525	20.62	21	0
					846.5	20625	20.52	21	0
	12			826.5	20425	20.54	21	0	
				836.5	20525	20.66	21	0	
				846.5	20625	20.57	21	0	
	24			826.5	20425	20.66	21	0	
				836.5	20525	20.58	21	0	
				846.5	20625	20.77	21	0	
	12 RB			0	826.5	20425	20.68	21	0
					836.5	20525	20.63	21	0
					846.5	20625	20.54	21	0
			6	826.5	20425	20.65	21	0	
				836.5	20525	20.58	21	0	
				846.5	20625	20.61	21	0	
			13	826.5	20425	20.67	21	0	
				836.5	20525	20.55	21	0	
				846.5	20625	20.80	21	0	
	25RB		826.5	20425	20.66	21	0		
			836.5	20525	20.61	21	0		
			846.5	20625	20.46	21	0		

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FDD Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	825.5	20415	20.85	21	0
				836.5	20525	20.86	21	0
				847.5	20635	20.89	21	0
			7	825.5	20415	20.73	21	0
				836.5	20525	20.62	21	0
				847.5	20635	20.86	21	0
			14	825.5	20415	20.80	21	0
				836.5	20525	20.74	21	0
				847.5	20635	20.67	21	0
		8 RB	0	825.5	20415	20.77	21	0
				836.5	20525	20.61	21	0
				847.5	20635	20.76	21	0
			4	825.5	20415	20.71	21	0
				836.5	20525	20.66	21	0
				847.5	20635	20.71	21	0
			7	825.5	20415	20.70	21	0
				836.5	20525	20.70	21	0
				847.5	20635	20.83	21	0
		15RB	825.5	20415	20.75	21	0	
			836.5	20525	20.81	21	0	
			847.5	20635	20.72	21	0	
	16-QAM	1 RB	0	825.5	20415	20.78	21	0
				836.5	20525	20.75	21	0
				847.5	20635	20.65	21	0
			7	825.5	20415	20.66	21	0
				836.5	20525	20.59	21	0
				847.5	20635	20.55	21	0
			14	825.5	20415	20.65	21	0
				836.5	20525	20.57	21	0
				847.5	20635	20.81	21	0
		8 RB	0	825.5	20415	20.56	21	0
				836.5	20525	20.64	21	0
				847.5	20635	20.49	21	0
			4	825.5	20415	20.53	21	0
				836.5	20525	20.61	21	0
				847.5	20635	20.65	21	0
			7	825.5	20415	20.78	21	0
				836.5	20525	20.56	21	0
				847.5	20635	20.68	21	0
		15RB	825.5	20415	20.75	21	0	
			836.5	20525	20.68	21	0	
			847.5	20635	20.78	21	0	

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	824.7	20407	20.82	21	0	
				836.5	20525	20.76	21	0	
				848.3	20643	20.75	21	0	
			2	824.7	20407	20.86	21	0	
				836.5	20525	20.69	21	0	
				848.3	20643	20.76	21	0	
		5	824.7	20407	20.76	21	0		
			836.5	20525	20.81	21	0		
			848.3	20643	20.72	21	0		
		3 RB	0	824.7	20407	20.74	21	0	
				836.5	20525	20.71	21	0	
				848.3	20643	20.81	21	0	
			2	824.7	20407	20.69	21	0	
				836.5	20525	20.67	21	0	
				848.3	20643	20.72	21	0	
		3	824.7	20407	20.83	21	0		
			836.5	20525	20.80	21	0		
			848.3	20643	20.73	21	0		
		6RB	824.7	20407	20.63	21	0		
			836.5	20525	20.79	21	0		
			848.3	20643	20.87	21	0		
		16-QAM	1 RB	0	824.7	20407	20.80	21	0
					836.5	20525	20.66	21	0
					848.3	20643	20.67	21	0
	2			824.7	20407	20.53	21	0	
				836.5	20525	20.57	21	0	
				848.3	20643	20.51	21	0	
	5			824.7	20407	20.73	21	0	
				836.5	20525	20.53	21	0	
				848.3	20643	20.63	21	0	
	3 RB			0	824.7	20407	20.51	21	0
					836.5	20525	20.66	21	0
					848.3	20643	20.60	21	0
			2	824.7	20407	20.60	21	0	
				836.5	20525	20.52	21	0	
				848.3	20643	20.66	21	0	
	3		824.7	20407	20.64	21	0		
			836.5	20525	20.69	21	0		
			848.3	20643	20.61	21	0		
	6RB		824.7	20407	20.77	21	0		
			836.5	20525	20.65	21	0		
			848.3	20643	20.69	21	0		

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	2510	20850	19.48	19.5	0	
				2535	21100	19.46	19.5	0	
				2560	21350	19.47	19.5	0	
			50	2510	20850	19.46	19.5	0	
				2535	21100	19.30	19.5	0	
				2560	21350	19.45	19.5	0	
			99	2510	20850	19.35	19.5	0	
				2535	21100	19.45	19.5	0	
				2560	21350	19.41	19.5	0	
		50 RB	0	2510	20850	19.43	19.5	0	
				2535	21100	19.27	19.5	0	
				2560	21350	19.28	19.5	0	
			25	2510	20850	19.38	19.5	0	
				2535	21100	19.25	19.5	0	
				2560	21350	19.25	19.5	0	
			50	2510	20850	19.39	19.5	0	
				2535	21100	19.29	19.5	0	
				2560	21350	19.41	19.5	0	
		100RB	2510	20850	19.46	19.5	0		
			2535	21100	19.33	19.5	0		
			2560	21350	19.32	19.5	0		
		16-QAM	1 RB	0	2510	20850	19.33	19.5	0
					2535	21100	19.22	19.5	0
					2560	21350	19.24	19.5	0
	50			2510	20850	19.31	19.5	0	
				2535	21100	19.12	19.5	0	
				2560	21350	19.16	19.5	0	
	99			2510	20850	19.41	19.5	0	
				2535	21100	19.31	19.5	0	
				2560	21350	19.22	19.5	0	
	50 RB			0	2510	20850	19.38	19.5	0
					2535	21100	19.19	19.5	0
					2560	21350	19.23	19.5	0
			25	2510	20850	19.33	19.5	0	
				2535	21100	19.17	19.5	0	
				2560	21350	19.21	19.5	0	
			50	2510	20850	19.39	19.5	0	
				2535	21100	19.22	19.5	0	
				2560	21350	19.29	19.5	0	
	100RB		2510	20850	19.43	19.5	0		
			2535	21100	19.32	19.5	0		
			2560	21350	19.32	19.5	0		

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	2507.5	20825	19.32	19.5	0	
				2535	21100	19.34	19.5	0	
				2562.5	21375	19.40	19.5	0	
			36	2507.5	20825	19.35	19.5	0	
				2535	21100	19.15	19.5	0	
				2562.5	21375	19.29	19.5	0	
		74	2507.5	20825	19.23	19.5	0		
			2535	21100	19.42	19.5	0		
			2562.5	21375	19.23	19.5	0		
		36 RB	0	2507.5	20825	19.37	19.5	0	
				2535	21100	19.19	19.5	0	
				2562.5	21375	19.13	19.5	0	
			18	2507.5	20825	19.25	19.5	0	
				2535	21100	19.16	19.5	0	
				2562.5	21375	19.19	19.5	0	
			37	2507.5	20825	19.21	19.5	0	
				2535	21100	19.17	19.5	0	
				2562.5	21375	19.20	19.5	0	
			75RB	2507.5	20825	19.38	19.5	0	
				2535	21100	19.28	19.5	0	
				2562.5	21375	19.18	19.5	0	
		16-QAM	1 RB	0	2507.5	20825	19.22	19.5	0
					2535	21100	19.03	19.5	0
					2562.5	21375	19.15	19.5	0
	36			2507.5	20825	19.10	19.5	0	
				2535	21100	18.94	19.5	0	
				2562.5	21375	18.99	19.5	0	
	74			2507.5	20825	19.28	19.5	0	
				2535	21100	19.15	19.5	0	
				2562.5	21375	19.01	19.5	0	
	36 RB			0	2507.5	20825	19.33	19.5	0
					2535	21100	19.02	19.5	0
					2562.5	21375	19.20	19.5	0
			18	2507.5	20825	19.16	19.5	0	
				2535	21100	19.04	19.5	0	
				2562.5	21375	19.01	19.5	0	
			37	2507.5	20825	19.23	19.5	0	
				2535	21100	19.06	19.5	0	
				2562.5	21375	19.14	19.5	0	
	75RB		2507.5	20825	19.33	19.5	0		
			2535	21100	19.22	19.5	0		
			2562.5	21375	19.27	19.5	0		

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	2505	20800	19.31	19.5	0	
				2535	21100	19.34	19.5	0	
				2565	21400	19.25	19.5	0	
			25	2505	20800	19.28	19.5	0	
				2535	21100	19.11	19.5	0	
				2565	21400	19.23	19.5	0	
			49	2505	20800	19.24	19.5	0	
				2535	21100	19.39	19.5	0	
				2565	21400	19.20	19.5	0	
			25 RB	0	2505	20800	19.25	19.5	0
					2535	21100	19.11	19.5	0
					2565	21400	19.21	19.5	0
		12		2505	20800	19.29	19.5	0	
				2535	21100	19.04	19.5	0	
				2565	21400	19.18	19.5	0	
		25		2505	20800	19.25	19.5	0	
				2535	21100	19.11	19.5	0	
				2565	21400	19.35	19.5	0	
		50RB		2505	20800	19.36	19.5	0	
				2535	21100	19.29	19.5	0	
				2565	21400	19.13	19.5	0	
		16-QAM	1 RB	0	2505	20800	19.11	19.5	0
					2535	21100	19.17	19.5	0
					2565	21400	19.06	19.5	0
	25			2505	20800	19.24	19.5	0	
				2535	21100	19.08	19.5	0	
				2565	21400	19.06	19.5	0	
	49			2505	20800	19.25	19.5	0	
				2535	21100	19.28	19.5	0	
				2565	21400	19.05	19.5	0	
	25 RB			0	2505	20800	19.16	19.5	0
					2535	21100	19.11	19.5	0
					2565	21400	19.18	19.5	0
			12	2505	20800	19.18	19.5	0	
				2535	21100	19.05	19.5	0	
				2565	21400	19.01	19.5	0	
			25	2505	20800	19.23	19.5	0	
				2535	21100	19.18	19.5	0	
				2565	21400	19.08	19.5	0	
			50RB	2505	20800	19.23	19.5	0	
				2535	21100	19.27	19.5	0	
				2565	21400	19.12	19.5	0	

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	2502.5	20775	19.38	19.5	0	
				2535	21100	19.36	19.5	0	
				2567.5	21425	19.40	19.5	0	
			12	2502.5	20775	19.42	19.5	0	
				2535	21100	19.15	19.5	0	
				2567.5	21425	19.37	19.5	0	
		24	2502.5	20775	19.35	19.5	0		
			2535	21100	19.31	19.5	0		
			2567.5	21425	19.29	19.5	0		
		12 RB	0	2502.5	20775	19.38	19.5	0	
				2535	21100	19.10	19.5	0	
				2567.5	21425	19.08	19.5	0	
			6	2502.5	20775	19.29	19.5	0	
				2535	21100	19.08	19.5	0	
				2567.5	21425	19.12	19.5	0	
			13	2502.5	20775	19.33	19.5	0	
				2535	21100	19.26	19.5	0	
				2567.5	21425	19.30	19.5	0	
		25RB	2502.5	20775	19.33	19.5	0		
			2535	21100	19.19	19.5	0		
			2567.5	21425	19.13	19.5	0		
		16-QAM	1 RB	0	2502.5	20775	19.27	19.5	0
					2535	21100	19.17	19.5	0
					2567.5	21425	19.21	19.5	0
	12			2502.5	20775	19.28	19.5	0	
				2535	21100	19.08	19.5	0	
				2567.5	21425	19.01	19.5	0	
	24			2502.5	20775	19.30	19.5	0	
				2535	21100	19.24	19.5	0	
				2567.5	21425	19.08	19.5	0	
	12 RB			0	2502.5	20775	19.32	19.5	0
					2535	21100	19.13	19.5	0
					2567.5	21425	19.07	19.5	0
			6	2502.5	20775	19.20	19.5	0	
				2535	21100	18.99	19.5	0	
				2567.5	21425	19.10	19.5	0	
			13	2502.5	20775	19.32	19.5	0	
				2535	21100	19.17	19.5	0	
				2567.5	21425	19.07	19.5	0	
	25RB		2502.5	20775	19.38	19.5	0		
			2535	21100	19.20	19.5	0		
			2567.5	21425	19.26	19.5	0		

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	704	23060	20.93	21	0	
				707.5	23095	20.97	21	0	
				711	23130	20.96	21	0	
			25	704	23060	20.86	21	0	
				707.5	23095	20.91	21	0	
				711	23130	20.89	21	0	
			49	704	23060	20.82	21	0	
				707.5	23095	20.80	21	0	
				711	23130	20.83	21	0	
		25 RB	0	704	23060	20.81	21	0	
				707.5	23095	20.78	21	0	
				711	23130	20.75	21	0	
			12	704	23060	20.76	21	0	
				707.5	23095	20.81	21	0	
				711	23130	20.74	21	0	
			25	704	23060	20.82	21	0	
				707.5	23095	20.84	21	0	
				711	23130	20.88	21	0	
		50RB	704	23060	20.83	21	0		
			707.5	23095	20.85	21	0		
			711	23130	20.88	21	0		
		16-QAM	1 RB	0	704	23060	20.66	21	0
					707.5	23095	20.64	21	0
					711	23130	20.68	21	0
	25			704	23060	20.79	21	0	
				707.5	23095	20.66	21	0	
				711	23130	20.67	21	0	
	49			704	23060	20.77	21	0	
				707.5	23095	20.78	21	0	
				711	23130	20.83	21	0	
	25 RB			0	704	23060	20.78	21	0
					707.5	23095	20.69	21	0
					711	23130	20.64	21	0
			12	704	23060	20.76	21	0	
				707.5	23095	20.77	21	0	
				711	23130	20.64	21	0	
			25	704	23060	20.81	21	0	
				707.5	23095	20.75	21	0	
				711	23130	20.82	21	0	
	50RB		704	23060	20.86	21	0		
			707.5	23095	20.75	21	0		
			711	23130	20.85	21	0		

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	701.5	23035	20.89	21	0	
				707.5	23095	20.83	21	0	
				713.5	23155	20.87	21	0	
			12	701.5	23035	20.78	21	0	
				707.5	23095	20.72	21	0	
				713.5	23155	20.82	21	0	
			24	701.5	23035	20.78	21	0	
				707.5	23095	20.66	21	0	
				713.5	23155	20.78	21	0	
		12 RB	0	701.5	23035	20.69	21	0	
				707.5	23095	20.74	21	0	
				713.5	23155	20.68	21	0	
			6	701.5	23035	20.63	21	0	
				707.5	23095	20.74	21	0	
				713.5	23155	20.58	21	0	
			13	701.5	23035	20.71	21	0	
				707.5	23095	20.73	21	0	
				713.5	23155	20.73	21	0	
		25RB	701.5	23035	20.64	21	0		
			707.5	23095	20.64	21	0		
			713.5	23155	20.83	21	0		
		16-QAM	1 RB	0	701.5	23035	20.43	21	0
					707.5	23095	20.58	21	0
					713.5	23155	20.46	21	0
	12			701.5	23035	20.58	21	0	
				707.5	23095	20.50	21	0	
				713.5	23155	20.61	21	0	
	24			701.5	23035	20.57	21	0	
				707.5	23095	20.74	21	0	
				713.5	23155	20.68	21	0	
	12 RB			0	701.5	23035	20.60	21	0
					707.5	23095	20.54	21	0
					713.5	23155	20.49	21	0
			6	701.5	23035	20.72	21	0	
				707.5	23095	20.63	21	0	
				713.5	23155	20.45	21	0	
			13	701.5	23035	20.67	21	0	
				707.5	23095	20.59	21	0	
				713.5	23155	20.60	21	0	
	25RB		701.5	23035	20.68	21	0		
			707.5	23095	20.56	21	0		
			713.5	23155	20.79	21	0		

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	700.5	23025	20.77	21	0	
				707.5	23095	20.78	21	0	
				714.5	23165	20.74	21	0	
			7	700.5	23025	20.81	21	0	
				707.5	23095	20.82	21	0	
				714.5	23165	20.82	21	0	
			14	700.5	23025	20.76	21	0	
				707.5	23095	20.76	21	0	
				714.5	23165	20.65	21	0	
		8 RB	0	700.5	23025	20.73	21	0	
				707.5	23095	20.71	21	0	
				714.5	23165	20.59	21	0	
			4	700.5	23025	20.55	21	0	
				707.5	23095	20.69	21	0	
				714.5	23165	20.63	21	0	
			7	700.5	23025	20.71	21	0	
				707.5	23095	20.64	21	0	
				714.5	23165	20.75	21	0	
		15RB	700.5	23025	20.68	21	0		
			707.5	23095	20.81	21	0		
			714.5	23165	20.72	21	0		
		16-QAM	1 RB	0	700.5	23025	20.56	21	0
					707.5	23095	20.56	21	0
					714.5	23165	20.53	21	0
	7			700.5	23025	20.64	21	0	
				707.5	23095	20.60	21	0	
				714.5	23165	20.44	21	0	
	14			700.5	23025	20.73	21	0	
				707.5	23095	20.64	21	0	
				714.5	23165	20.79	21	0	
	8 RB			0	700.5	23025	20.55	21	0
					707.5	23095	20.49	21	0
					714.5	23165	20.52	21	0
			4	700.5	23025	20.67	21	0	
				707.5	23095	20.72	21	0	
				714.5	23165	20.49	21	0	
			7	700.5	23025	20.61	21	0	
				707.5	23095	20.62	21	0	
				714.5	23165	20.68	21	0	
	15RB		700.5	23025	20.65	21	0		
			707.5	23095	20.70	21	0		
			714.5	23165	20.75	21	0		

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	699.7	23017	20.87	21	0	
				707.5	23095	20.85	21	0	
				715.3	23173	20.83	21	0	
			2	699.7	23017	20.64	21	0	
				707.5	23095	20.85	21	0	
				715.3	23173	20.68	21	0	
		5	699.7	23017	20.75	21	0		
			707.5	23095	20.61	21	0		
			715.3	23173	20.61	21	0		
		3 RB	0	699.7	23017	20.60	21	0	
				707.5	23095	20.70	21	0	
				715.3	23173	20.58	21	0	
			2	699.7	23017	20.72	21	0	
				707.5	23095	20.59	21	0	
				715.3	23173	20.68	21	0	
		3	699.7	23017	20.67	21	0		
			707.5	23095	20.71	21	0		
			715.3	23173	20.68	21	0		
		6RB	699.7	23017	20.69	21	0		
			707.5	23095	20.65	21	0		
			715.3	23173	20.77	21	0		
		16-QAM	1 RB	0	699.7	23017	20.46	21	0
					707.5	23095	20.47	21	0
					715.3	23173	20.51	21	0
	2			699.7	23017	20.74	21	0	
				707.5	23095	20.59	21	0	
				715.3	23173	20.50	21	0	
	5			699.7	23017	20.57	21	0	
				707.5	23095	20.67	21	0	
				715.3	23173	20.70	21	0	
	3 RB			0	699.7	23017	20.74	21	0
					707.5	23095	20.55	21	0
					715.3	23173	20.44	21	0
			2	699.7	23017	20.64	21	0	
				707.5	23095	20.61	21	0	
				715.3	23173	20.57	21	0	
	3		699.7	23017	20.67	21	0		
			707.5	23095	20.68	21	0		
			715.3	23173	20.67	21	0		
	6RB		699.7	23017	20.81	21	0		
			707.5	23095	20.68	21	0		
			715.3	23173	20.79	21	0		

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FDD Band 13									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	782	23230	20.97	21	0	
			25	782	23230	20.99	21	0	
			49	782	23230	20.86	21	0	
		25 RB	0	782	23230	20.97	21	0	
			12	782	23230	20.77	21	0	
			25	782	23230	20.87	21	0	
	50RB			782	23230	20.96	21	0	
	16-QAM	1 RB	0	782	23230	20.87	21	0	
			25	782	23230	20.75	21	0	
			49	782	23230	20.91	21	0	
		25 RB	0	782	23230	20.92	21	0	
			12	782	23230	20.72	21	0	
			25	782	23230	20.81	21	0	
		50RB			782	23230	20.86	21	0

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FDD Band 13									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	779.5	23205	20.94	21	0	
				782	23230	20.82	21	0	
				784.5	23255	20.81	21	0	
			12	779.5	23205	20.89	21	0	
				782	23230	20.96	21	0	
				784.5	23255	20.94	21	0	
		24	779.5	23205	20.89	21	0		
			782	23230	20.79	21	0		
			784.5	23255	20.82	21	0		
		12 RB	0	779.5	23205	20.96	21	0	
				782	23230	20.86	21	0	
				784.5	23255	20.88	21	0	
			6	779.5	23205	20.84	21	0	
				782	23230	20.94	21	0	
				784.5	23255	20.89	21	0	
		13	779.5	23205	20.78	21	0		
			782	23230	20.84	21	0		
			784.5	23255	20.94	21	0		
		25RB	779.5	23205	20.84	21	0		
			782	23230	20.82	21	0		
			784.5	23255	20.85	21	0		
		16-QAM	1 RB	0	779.5	23205	20.88	21	0
					782	23230	20.91	21	0
					784.5	23255	20.84	21	0
	12			779.5	23205	20.88	21	0	
				782	23230	20.96	21	0	
				784.5	23255	20.85	21	0	
	24			779.5	23205	20.96	21	0	
				782	23230	20.79	21	0	
				784.5	23255	20.91	21	0	
	12 RB			0	779.5	23205	20.82	21	0
					782	23230	20.81	21	0
					784.5	23255	20.78	21	0
			6	779.5	23205	20.86	21	0	
				782	23230	20.80	21	0	
				784.5	23255	20.92	21	0	
	13		779.5	23205	20.78	21	0		
			782	23230	20.97	21	0		
			784.5	23255	20.95	21	0		
	25RB		779.5	23205	20.90	21	0		
			782	23230	20.78	21	0		
			784.5	23255	20.95	21	0		

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FDD Band 17										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
10	QPSK	1 RB	0	709	23780	20.97	21	0		
				710	23790	20.95	21	0		
				711	23800	20.94	21	0		
			25	0	709	23780	20.89	21	0	
					710	23790	20.91	21	0	
					711	23800	20.86	21	0	
				49	0	709	23780	20.81	21	0
						710	23790	20.94	21	0
						711	23800	20.83	21	0
		25 RB	0	709	23780	20.84	21	0		
				710	23790	20.82	21	0		
				711	23800	20.72	21	0		
			12	0	709	23780	20.73	21	0	
					710	23790	20.74	21	0	
					711	23800	20.65	21	0	
				25	0	709	23780	20.86	21	0
						710	23790	20.88	21	0
						711	23800	20.84	21	0
		50RB	0	709	23780	20.82	21	0		
				710	23790	20.81	21	0		
				711	23800	20.84	21	0		
		16-QAM	1 RB	0	709	23780	20.76	21	0	
					710	23790	20.68	21	0	
					711	23800	20.72	21	0	
	25			0	709	23780	20.59	21	0	
					710	23790	20.59	21	0	
					711	23800	20.66	21	0	
				49	0	709	23780	20.85	21	0
						710	23790	20.88	21	0
						711	23800	20.85	21	0
	25 RB			0	709	23780	20.68	21	0	
					710	23790	20.75	21	0	
					711	23800	20.65	21	0	
			12	0	709	23780	20.65	21	0	
					710	23790	20.66	21	0	
					711	23800	20.68	21	0	
				25	0	709	23780	20.73	21	0
						710	23790	20.72	21	0
						711	23800	20.82	21	0
			50RB	0	709	23780	20.72	21	0	
					710	23790	20.73	21	0	
					711	23800	20.81	21	0	

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FDD Band 17									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	706.5	23755	20.82	21.5	0	
				710	23790	20.80	21.5	0	
				713.5	23825	20.78	21.5	0	
			12	706.5	23755	20.81	21.5	0	
				710	23790	20.78	21.5	0	
				713.5	23825	20.65	21.5	0	
			24	706.5	23755	20.61	21.5	0	
				710	23790	20.77	21.5	0	
				713.5	23825	20.67	21.5	0	
			12 RB	0	706.5	23755	20.69	21.5	0
					710	23790	20.66	21.5	0
					713.5	23825	20.58	21.5	0
		6		706.5	23755	20.69	21.5	0	
				710	23790	20.65	21.5	0	
				713.5	23825	20.46	21.5	0	
		13		706.5	23755	20.70	21.5	0	
				710	23790	20.68	21.5	0	
				713.5	23825	20.63	21.5	0	
		25RB		706.5	23755	20.73	21.5	0	
				710	23790	20.60	21.5	0	
				713.5	23825	20.65	21.5	0	
		16-QAM	1 RB	0	706.5	23755	20.54	21.5	0
					710	23790	20.52	21.5	0
					713.5	23825	20.66	21.5	0
	12			706.5	23755	20.43	21.5	0	
				710	23790	20.46	21.5	0	
				713.5	23825	20.61	21.5	0	
	24			706.5	23755	20.69	21.5	0	
				710	23790	20.75	21.5	0	
				713.5	23825	20.66	21.5	0	
	12 RB			0	706.5	23755	20.61	21.5	0
					710	23790	20.60	21.5	0
					713.5	23825	20.52	21.5	0
			6	706.5	23755	20.51	21.5	0	
				710	23790	20.46	21.5	0	
				713.5	23825	20.61	21.5	0	
			13	706.5	23755	20.57	21.5	0	
				710	23790	20.58	21.5	0	
				713.5	23825	20.66	21.5	0	
			25RB	706.5	23755	20.63	21.5	0	
				710	23790	20.68	21.5	0	
				713.5	23825	20.73	21.5	0	

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	821.5	26765	20.89	21	0	
				831.5	26865	20.98	21	0	
				841.5	26965	20.86	21	0	
			36	821.5	26765	20.94	21	0	
				831.5	26865	20.97	21	0	
				841.5	26965	20.83	21	0	
			74	821.5	26765	20.91	21	0	
				831.5	26865	20.93	21	0	
				841.5	26965	20.95	21	0	
		36 RB	0	821.5	26765	20.91	21	0	
				831.5	26865	20.88	21	0	
				841.5	26965	20.82	21	0	
			18	821.5	26765	20.85	21	0	
				831.5	26865	20.91	21	0	
				841.5	26965	20.72	21	0	
			37	821.5	26765	20.97	21	0	
				831.5	26865	20.84	21	0	
				841.5	26965	20.71	21	0	
		75RB	821.5	26765	20.88	21	0		
			831.5	26865	20.97	21	0		
			841.5	26965	20.83	21	0		
		16-QAM	1 RB	0	821.5	26765	20.84	21	0
					831.5	26865	20.91	21	0
					841.5	26965	20.74	21	0
	36			821.5	26765	20.72	21	0	
				831.5	26865	20.75	21	0	
				841.5	26965	20.64	21	0	
	74			821.5	26765	20.73	21	0	
				831.5	26865	20.73	21	0	
				841.5	26965	20.79	21	0	
	36 RB			0	821.5	26765	20.88	21	0
					831.5	26865	20.79	21	0
					841.5	26965	20.71	21	0
			18	821.5	26765	20.75	21	0	
				831.5	26865	20.84	21	0	
				841.5	26965	20.66	21	0	
			37	821.5	26765	20.71	21	0	
				831.5	26865	20.72	21	0	
				841.5	26965	20.66	21	0	
	75RB		821.5	26765	20.87	21	0		
			831.5	26865	20.93	21	0		
			841.5	26965	20.76	21	0		

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	819	26740	20.68	21	0	
				831.5	26865	20.79	21	0	
				844	26990	20.80	21	0	
			25	819	26740	20.75	21	0	
				831.5	26865	20.85	21	0	
				844	26990	20.74	21	0	
			49	819	26740	20.75	21	0	
				831.5	26865	20.80	21	0	
				844	26990	20.76	21	0	
		25 RB	0	819	26740	20.77	21	0	
				831.5	26865	20.83	21	0	
				844	26990	20.70	21	0	
			12	819	26740	20.67	21	0	
				831.5	26865	20.73	21	0	
				844	26990	20.50	21	0	
			25	819	26740	20.93	21	0	
				831.5	26865	20.72	21	0	
				844	26990	20.62	21	0	
		50RB	819	26740	20.73	21	0		
			831.5	26865	20.75	21	0		
			844	26990	20.75	21	0		
		16-QAM	1 RB	0	819	26740	20.66	21	0
					831.5	26865	20.87	21	0
					844	26990	20.66	21	0
	25			819	26740	20.50	21	0	
				831.5	26865	20.54	21	0	
				844	26990	20.58	21	0	
	49			819	26740	20.68	21	0	
				831.5	26865	20.58	21	0	
				844	26990	20.67	21	0	
	25 RB			0	819	26740	20.78	21	0
					831.5	26865	20.57	21	0
					844	26990	20.65	21	0
			12	819	26740	20.70	21	0	
				831.5	26865	20.62	21	0	
				844	26990	20.59	21	0	
			25	819	26740	20.66	21	0	
				831.5	26865	20.55	21	0	
				844	26990	20.55	21	0	
			50RB	819	26740	20.83	21	0	
				831.5	26865	20.90	21	0	
				844	26990	20.72	21	0	

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	816.5	26715	20.71	21	0	
				831.5	26865	20.77	21	0	
				846.5	27015	20.82	21	0	
			12	816.5	26715	20.72	21	0	
				831.5	26865	20.83	21	0	
				846.5	27015	20.75	21	0	
			24	816.5	26715	20.78	21	0	
				831.5	26865	20.79	21	0	
				846.5	27015	20.81	21	0	
			12 RB	0	816.5	26715	20.70	21	0
					831.5	26865	20.66	21	0
					846.5	27015	20.78	21	0
		6		816.5	26715	20.67	21	0	
				831.5	26865	20.86	21	0	
				846.5	27015	20.56	21	0	
		13		816.5	26715	20.77	21	0	
				831.5	26865	20.73	21	0	
				846.5	27015	20.56	21	0	
		25RB		816.5	26715	20.82	21	0	
				831.5	26865	20.85	21	0	
				846.5	27015	20.73	21	0	
		16-QAM	1 RB	0	816.5	26715	20.70	21	0
					831.5	26865	20.88	21	0
					846.5	27015	20.63	21	0
	12			816.5	26715	20.65	21	0	
				831.5	26865	20.64	21	0	
				846.5	27015	20.55	21	0	
	24			816.5	26715	20.55	21	0	
				831.5	26865	20.66	21	0	
				846.5	27015	20.71	21	0	
	12 RB			0	816.5	26715	20.75	21	0
					831.5	26865	20.65	21	0
					846.5	27015	20.63	21	0
			6	816.5	26715	20.72	21	0	
				831.5	26865	20.67	21	0	
				846.5	27015	20.58	21	0	
			13	816.5	26715	20.60	21	0	
				831.5	26865	20.57	21	0	
				846.5	27015	20.59	21	0	
			25RB	816.5	26715	20.77	21	0	
				831.5	26865	20.76	21	0	
				846.5	27015	20.65	21	0	

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	815.5	26705	20.77	21	0	
				831.5	26865	20.92	21	0	
				847.5	27025	20.64	21	0	
			7	815.5	26705	20.75	21	0	
				831.5	26865	20.78	21	0	
				847.5	27025	20.63	21	0	
			14	815.5	26705	20.74	21	0	
				831.5	26865	20.89	21	0	
				847.5	27025	20.75	21	0	
			8 RB	0	815.5	26705	20.88	21	0
					831.5	26865	20.71	21	0
					847.5	27025	20.69	21	0
		4		815.5	26705	20.80	21	0	
				831.5	26865	20.69	21	0	
				847.5	27025	20.68	21	0	
		7		815.5	26705	20.80	21	0	
				831.5	26865	20.71	21	0	
				847.5	27025	20.56	21	0	
		15RB		815.5	26705	20.68	21	0	
				831.5	26865	20.86	21	0	
				847.5	27025	20.68	21	0	
		16-QAM	1 RB	0	815.5	26705	20.78	21	0
					831.5	26865	20.81	21	0
					847.5	27025	20.60	21	0
	7			815.5	26705	20.56	21	0	
				831.5	26865	20.68	21	0	
				847.5	27025	20.50	21	0	
	14			815.5	26705	20.51	21	0	
				831.5	26865	20.54	21	0	
				847.5	27025	20.60	21	0	
	8 RB			0	815.5	26705	20.68	21	0
					831.5	26865	20.66	21	0
					847.5	27025	20.61	21	0
			4	815.5	26705	20.66	21	0	
				831.5	26865	20.68	21	0	
				847.5	27025	20.57	21	0	
			7	815.5	26705	20.58	21	0	
				831.5	26865	20.63	21	0	
				847.5	27025	20.58	21	0	
			15RB	815.5	26705	20.84	21	0	
				831.5	26865	20.75	21	0	
				847.5	27025	20.54	21	0	

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	814.7	26697	20.84	21	0	
				831.5	26865	20.89	21	0	
				848.3	27033	20.64	21	0	
			2	814.7	26697	20.73	21	0	
				831.5	26865	20.82	21	0	
				848.3	27033	20.74	21	0	
		5	814.7	26697	20.82	21	0		
			831.5	26865	20.81	21	0		
			848.3	27033	20.86	21	0		
		3 RB	0	814.7	26697	20.77	21	0	
				831.5	26865	20.69	21	0	
				848.3	27033	20.74	21	0	
			2	814.7	26697	20.80	21	0	
				831.5	26865	20.74	21	0	
				848.3	27033	20.61	21	0	
			3	814.7	26697	20.85	21	0	
				831.5	26865	20.62	21	0	
				848.3	27033	20.59	21	0	
		6RB	814.7	26697	20.66	21	0		
			831.5	26865	20.88	21	0		
			848.3	27033	20.74	21	0		
		16-QAM	1 RB	0	814.7	26697	20.63	21	0
					831.5	26865	20.88	21	0
					848.3	27033	20.66	21	0
	2			814.7	26697	20.69	21	0	
				831.5	26865	20.55	21	0	
				848.3	27033	20.43	21	0	
	5			814.7	26697	20.61	21	0	
				831.5	26865	20.66	21	0	
				848.3	27033	20.58	21	0	
	3 RB			0	814.7	26697	20.74	21	0
					831.5	26865	20.71	21	0
					848.3	27033	20.65	21	0
			2	814.7	26697	20.72	21	0	
				831.5	26865	20.62	21	0	
				848.3	27033	20.44	21	0	
			3	814.7	26697	20.54	21	0	
				831.5	26865	20.65	21	0	
				848.3	27033	20.60	21	0	
	6RB		814.7	26697	20.76	21	0		
			831.5	26865	20.88	21	0		
			848.3	27033	20.71	21	0		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	1720	132072	19.42	19.5	0	
				1745	132322	19.45	19.5	0	
				1770	132572	19.48	19.5	0	
			50	1720	132072	19.41	19.5	0	
				1745	132322	19.43	19.5	0	
				1770	132572	19.44	19.5	0	
			99	1720	132072	19.34	19.5	0	
				1745	132322	19.43	19.5	0	
				1770	132572	19.46	19.5	0	
		50 RB	0	1720	132072	19.36	19.5	0	
				1745	132322	19.26	19.5	0	
				1770	132572	19.31	19.5	0	
			25	1720	132072	19.14	19.5	0	
				1745	132322	19.37	19.5	0	
				1770	132572	19.12	19.5	0	
			50	1720	132072	19.35	19.5	0	
				1745	132322	19.46	19.5	0	
				1770	132572	19.38	19.5	0	
		100RB	1720	132072	19.34	19.5	0		
			1745	132322	19.37	19.5	0		
			1770	132572	19.33	19.5	0		
		16-QAM	1 RB	0	1720	132072	19.32	19.5	0
					1745	132322	19.15	19.5	0
					1770	132572	19.42	19.5	0
	50			1720	132072	19.14	19.5	0	
				1745	132322	19.04	19.5	0	
				1770	132572	19.16	19.5	0	
	99			1720	132072	19.05	19.5	0	
				1745	132322	19.27	19.5	0	
				1770	132572	19.42	19.5	0	
	50 RB		0	1720	132072	19.24	19.5	0	
				1745	132322	19.13	19.5	0	
				1770	132572	19.37	19.5	0	
			25	1720	132072	19.25	19.5	0	
				1745	132322	19.16	19.5	0	
				1770	132572	19.17	19.5	0	
			50	1720	132072	19.18	19.5	0	
				1745	132322	19.29	19.5	0	
				1770	132572	19.18	19.5	0	
	100RB		1720	132072	19.41	19.5	0		
			1745	132322	19.38	19.5	0		
			1770	132572	19.38	19.5	0		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	1717.5	132047	19.40	19.5	0	
				1745	132322	19.39	19.5	0	
				1772.5	132597	19.36	19.5	0	
			36	1717.5	132047	19.33	19.5	0	
				1745	132322	19.40	19.5	0	
				1772.5	132597	19.41	19.5	0	
		74	1717.5	132047	19.25	19.5	0		
			1745	132322	19.35	19.5	0		
			1772.5	132597	19.39	19.5	0		
		36 RB	0	1717.5	132047	19.33	19.5	0	
				1745	132322	19.22	19.5	0	
				1772.5	132597	19.23	19.5	0	
			18	1717.5	132047	19.11	19.5	0	
				1745	132322	19.35	19.5	0	
				1772.5	132597	19.10	19.5	0	
		37	1717.5	132047	19.25	19.5	0		
			1745	132322	19.38	19.5	0		
			1772.5	132597	19.30	19.5	0		
		75RB	1717.5	132047	19.30	19.5	0		
			1745	132322	19.30	19.5	0		
			1772.5	132597	19.23	19.5	0		
		16-QAM	1 RB	0	1717.5	132047	19.26	19.5	0
					1745	132322	19.09	19.5	0
					1772.5	132597	19.35	19.5	0
	36			1717.5	132047	19.08	19.5	0	
				1745	132322	18.95	19.5	0	
				1772.5	132597	19.10	19.5	0	
	74			1717.5	132047	18.95	19.5	0	
				1745	132322	19.25	19.5	0	
				1772.5	132597	19.36	19.5	0	
	36 RB			0	1717.5	132047	19.21	19.5	0
					1745	132322	19.07	19.5	0
					1772.5	132597	19.30	19.5	0
			18	1717.5	132047	19.18	19.5	0	
				1745	132322	19.11	19.5	0	
				1772.5	132597	19.07	19.5	0	
	37		1717.5	132047	19.11	19.5	0		
			1745	132322	19.22	19.5	0		
			1772.5	132597	19.16	19.5	0		
	75RB		1717.5	132047	19.35	19.5	0		
			1745	132322	19.30	19.5	0		
			1772.5	132597	19.29	19.5	0		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	1715	132022	19.32	19.5	0	
				1745	132322	19.41	19.5	0	
				1775	132622	19.39	19.5	0	
			25	1715	132022	19.35	19.5	0	
				1745	132322	19.33	19.5	0	
				1775	132622	19.30	19.5	0	
			49	1715	132022	19.23	19.5	0	
				1745	132322	19.36	19.5	0	
				1775	132622	19.37	19.5	0	
		25 RB	0	1715	132022	19.28	19.5	0	
				1745	132322	19.22	19.5	0	
				1775	132622	19.26	19.5	0	
			12	1715	132022	19.12	19.5	0	
				1745	132322	19.26	19.5	0	
				1775	132622	19.04	19.5	0	
			25	1715	132022	19.32	19.5	0	
				1745	132322	19.43	19.5	0	
				1775	132622	19.36	19.5	0	
		50RB	1715	132022	19.28	19.5	0		
			1745	132322	19.33	19.5	0		
			1775	132622	19.30	19.5	0		
		16-QAM	1 RB	0	1715	132022	19.24	19.5	0
					1745	132322	19.04	19.5	0
					1775	132622	19.38	19.5	0
	25			1715	132022	19.11	19.5	0	
				1745	132322	18.96	19.5	0	
				1775	132622	19.09	19.5	0	
	49			1715	132022	19.00	19.5	0	
				1745	132322	19.25	19.5	0	
				1775	132622	19.40	19.5	0	
	25 RB		0	1715	132022	19.13	19.5	0	
				1745	132322	19.04	19.5	0	
				1775	132622	19.33	19.5	0	
			12	1715	132022	19.18	19.5	0	
				1745	132322	19.12	19.5	0	
				1775	132622	19.07	19.5	0	
			25	1715	132022	19.15	19.5	0	
				1745	132322	19.22	19.5	0	
				1775	132622	19.08	19.5	0	
	50RB		1715	132022	19.37	19.5	0		
			1745	132322	19.30	19.5	0		
			1775	132622	19.31	19.5	0		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
5	QPSK	1 RB	0	1712.5	131997	19.33	19.5	0	
				1745	132322	19.40	19.5	0	
				1777.5	132647	19.45	19.5	0	
			12	1712.5	131997	19.36	19.5	0	
				1745	132322	19.40	19.5	0	
				1777.5	132647	19.37	19.5	0	
		24	1712.5	131997	19.23	19.5	0		
			1745	132322	19.32	19.5	0		
			1777.5	132647	19.43	19.5	0		
		12 RB	0	1712.5	131997	19.25	19.5	0	
				1745	132322	19.20	19.5	0	
				1777.5	132647	19.22	19.5	0	
			6	1712.5	131997	19.10	19.5	0	
				1745	132322	19.26	19.5	0	
				1777.5	132647	19.03	19.5	0	
			13	1712.5	131997	19.25	19.5	0	
				1745	132322	19.42	19.5	0	
				1777.5	132647	19.29	19.5	0	
		25RB	1712.5	131997	19.27	19.5	0		
			1745	132322	19.30	19.5	0		
			1777.5	132647	19.29	19.5	0		
		16-QAM	1 RB	0	1712.5	131997	19.26	19.5	0
					1745	132322	19.09	19.5	0
					1777.5	132647	19.33	19.5	0
	12			1712.5	131997	19.12	19.5	0	
				1745	132322	18.94	19.5	0	
				1777.5	132647	19.09	19.5	0	
	24		1712.5	131997	18.94	19.5	0		
			1745	132322	19.22	19.5	0		
			1777.5	132647	19.37	19.5	0		
	12 RB		0	1712.5	131997	19.22	19.5	0	
				1745	132322	19.08	19.5	0	
				1777.5	132647	19.27	19.5	0	
			6	1712.5	131997	19.18	19.5	0	
				1745	132322	19.07	19.5	0	
				1777.5	132647	19.07	19.5	0	
			13	1712.5	131997	19.12	19.5	0	
				1745	132322	19.23	19.5	0	
				1777.5	132647	19.14	19.5	0	
	25RB		1712.5	131997	19.35	19.5	0		
			1745	132322	19.35	19.5	0		
			1777.5	132647	19.29	19.5	0		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
3	QPSK	1 RB	0	1711.5	131987	19.31	19.5	0	
				1745	132322	19.42	19.5	0	
				1778.5	132657	19.33	19.5	0	
			7	1711.5	131987	19.36	19.5	0	
				1745	132322	19.38	19.5	0	
				1778.5	132657	19.39	19.5	0	
		14	1711.5	131987	19.30	19.5	0		
			1745	132322	19.33	19.5	0		
			1778.5	132657	19.37	19.5	0		
		8 RB	0	1711.5	131987	19.32	19.5	0	
				1745	132322	19.23	19.5	0	
				1778.5	132657	19.29	19.5	0	
			4	1711.5	131987	19.10	19.5	0	
				1745	132322	19.35	19.5	0	
				1778.5	132657	19.03	19.5	0	
		7	1711.5	131987	19.31	19.5	0		
			1745	132322	19.39	19.5	0		
			1778.5	132657	19.32	19.5	0		
		15RB	1711.5	131987	19.23	19.5	0		
			1745	132322	19.31	19.5	0		
			1778.5	132657	19.27	19.5	0		
		16-QAM	1 RB	0	1711.5	131987	19.26	19.5	0
					1745	132322	19.08	19.5	0
					1778.5	132657	19.37	19.5	0
	7			1711.5	131987	19.10	19.5	0	
				1745	132322	18.98	19.5	0	
				1778.5	132657	19.09	19.5	0	
	14		1711.5	131987	18.95	19.5	0		
			1745	132322	19.17	19.5	0		
			1778.5	132657	19.35	19.5	0		
	8 RB		0	1711.5	131987	19.17	19.5	0	
				1745	132322	19.07	19.5	0	
				1778.5	132657	19.26	19.5	0	
			4	1711.5	131987	19.19	19.5	0	
				1745	132322	19.11	19.5	0	
				1778.5	132657	19.13	19.5	0	
	7		1711.5	131987	19.08	19.5	0		
			1745	132322	19.20	19.5	0		
			1778.5	132657	19.11	19.5	0		
	15RB		1711.5	131987	19.31	19.5	0		
			1745	132322	19.27	19.5	0		
			1778.5	132657	19.29	19.5	0		

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1710.7	131979	19.37	19.5	0	
				1745	132322	19.40	19.5	0	
				1779.3	132665	19.35	19.5	0	
			2	1710.7	131979	19.36	19.5	0	
				1745	132322	19.39	19.5	0	
				1779.3	132665	19.34	19.5	0	
		5	1710.7	131979	19.28	19.5	0		
			1745	132322	19.38	19.5	0		
			1779.3	132665	19.37	19.5	0		
		3 RB	0	1710.7	131979	19.29	19.5	0	
				1745	132322	19.19	19.5	0	
				1779.3	132665	19.28	19.5	0	
			2	1710.7	131979	19.07	19.5	0	
				1745	132322	19.26	19.5	0	
				1779.3	132665	19.02	19.5	0	
			3	1710.7	131979	19.31	19.5	0	
				1745	132322	19.44	19.5	0	
				1779.3	132665	19.36	19.5	0	
		6RB	1710.7	131979	19.27	19.5	0		
			1745	132322	19.28	19.5	0		
			1779.3	132665	19.23	19.5	0		
		16-QAM	1 RB	0	1710.7	131979	19.23	19.5	0
					1745	132322	19.09	19.5	0
					1779.3	132665	19.32	19.5	0
	2			1710.7	131979	19.05	19.5	0	
				1745	132322	18.94	19.5	0	
				1779.3	132665	19.06	19.5	0	
	5			1710.7	131979	18.95	19.5	0	
				1745	132322	19.17	19.5	0	
				1779.3	132665	19.40	19.5	0	
	3 RB			0	1710.7	131979	19.22	19.5	0
					1745	132322	19.10	19.5	0
					1779.3	132665	19.32	19.5	0
			2	1710.7	131979	19.19	19.5	0	
				1745	132322	19.08	19.5	0	
				1779.3	132665	19.13	19.5	0	
			3	1710.7	131979	19.14	19.5	0	
				1745	132322	19.19	19.5	0	
				1779.3	132665	19.11	19.5	0	
	6RB		1710.7	131979	19.33	19.5	0		
			1745	132322	19.34	19.5	0		
			1779.3	132665	19.32	19.5	0		

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**WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M/160M) conducted power table:**

Band \ Antenna	SISO		MIMO
	Chain 0	Chain 1	Chain0+1
WLAN802.11b	V	V	-
WLAN802.11g	V	V	-
WLAN802.11n(20M)	V	V	V
WLAN802.11n(40M)	V	V	V
WLAN802.11a	V	V	-
WLAN802.11n(20M) 5G	V	V	V
WLAN802.11n(40M) 5G	V	V	V
WLAN802.11ac(20M) 5G	V	V	V
WLAN802.11ac(40M) 5G	V	V	V
WLAN802.11ac(80M) 5G	V	V	V
WLAN802.11ac(160M) 5G	V	V	V

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**Tablet mode (Reduced power)**

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	17.50	17.48
		6	2437		17.50	17.43
		11	2462		17.50	17.44
		12	2467		17.50	17.47
		13	2472		15.00	14.96
	802.11g	1	2412	6Mbps	16.00	15.98
		2	2417		17.50	17.39
		6	2437		17.50	17.41
		10	2457		17.50	17.38
		11	2462		16.50	16.39
		12	2467		13.00	12.97
	802.11n20-HT0	1	2412	MCS0	16.00	15.99
		2	2417		17.50	17.42
		6	2437		17.50	17.41
		10	2457		17.50	17.40
		11	2462		16.50	16.46
		12	2467		13.00	12.97
	802.11n40-HT0	3	2422	MCS0	14.50	14.49
		4	2427		16.00	15.96
		6	2437		16.00	15.95
		8	2447		16.00	15.93
		9	2452		14.00	13.94
		10	2457		10.50	10.44
		11	2462		3.50	3.47

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.50	15.45
		40	5200		15.50	15.36
		44	5220		15.50	15.44
		48	5240		15.50	15.40
	802.11n20-HT0	36	5180	MCS0	15.50	15.40
		40	5200		15.50	15.41
		44	5220		15.50	15.43
		48	5240		15.50	15.45
	802.11ac20-VHT0	36	5180	MCS0	15.50	15.39
		40	5200		15.50	15.36
		44	5220		15.50	15.43
		48	5240		15.50	15.40
	802.11n40-HT0	38	5190	MCS0	15.50	15.49
		46	5230		15.50	15.47
	802.11ac40-VHT0	38	5190	MCS0	15.50	15.40
		46	5230		15.50	15.43
802.11ac80-VHT0	42	5210	MCS0	15.50	15.50	
802.11ac160-VHT0	50	5250	MCS0	13.50	13.45	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	15.50	15.46
		56	5280		15.50	15.49
		60	5300		15.50	15.40
		64	5320		15.50	15.43
	802.11n20-HT0	52	5260	MCS0	15.50	15.44
		56	5280		15.50	15.38
		60	5300		15.50	15.33
		64	5320		15.50	15.35
	802.11ac20-VHT0	52	5260	MCS0	15.50	15.43
		56	5280		15.50	15.41
		60	5300		15.50	15.32
		64	5320		15.50	15.37
	802.11n40-HT0	54	5270	MCS0	15.50	15.48
		62	5310		14.50	14.46
	802.11ac40-VHT0	54	5270	MCS0	15.50	15.43
		62	5310		14.50	14.43
802.11ac80-VHT0	58	5290	MCS0	15.50	15.50	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	15.50	15.43
		116	5580		15.50	15.45
		120	5600		15.50	15.39
		140	5700		15.50	15.41
		144	5720		15.50	15.44
	802.11n20-HT0	100	5500	MCS0	15.50	15.41
		116	5580		15.50	15.44
		120	5600		15.50	15.37
		140	5700		15.50	15.40
		144	5720		15.50	15.39
	802.11ac20-VHT0	100	5500	MCS0	15.50	15.44
		116	5580		15.50	15.36
		120	5600		15.50	15.41
		140	5700		15.50	15.45
		144	5720		15.50	15.44
	802.11n40-HT0	102	5510	MCS0	15.50	15.45
		110	5550		15.50	15.49
		118	5590		15.50	15.47
		134	5670		15.50	15.48
	802.11ac40-VHT0	102	5510	MCS0	15.50	15.40
		110	5550		15.50	15.45
		118	5590		15.50	15.43
		134	5670		15.50	15.40
		142	5710		15.50	15.46
	802.11ac80-VHT0	106	5530	MCS0	15.50	15.47
		122	5610		15.50	15.41
		138	5690		15.50	15.50
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.97

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Main Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	15.50	15.42
		157	5785		15.50	15.34
		165	5825		15.50	15.39
	802.11n20-HT0	149	5745	MCS0	15.50	15.38
		157	5785		15.50	15.43
		165	5825		15.50	15.41
	802.11ac20-VHT0	149	5745	MCS0	15.50	15.37
		157	5785		15.50	15.35
		165	5825		15.50	15.40
	802.11n40-HT0	151	5755	MCS0	15.50	15.42
		159	5795		15.50	15.34
	802.11ac40-VHT0	151	5755	MCS0	15.50	15.43
		159	5795		15.50	15.38
	802.11ac80-VHT0	155	5775	MCS0	15.50	15.45

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	17.50	17.50
		6	2437		17.50	17.46
		11	2462		17.50	17.43
		12	2467		17.50	17.34
		13	2472		15.00	14.93
	802.11g	1	2412	6Mbps	16.00	15.96
		2	2417		17.50	17.37
		6	2437		17.50	17.39
		10	2457		17.50	17.42
		11	2462		16.00	15.93
		12	2467		13.50	13.45
	802.11n20-HT0	1	2412	MCS0	16.00	15.91
		2	2417		17.50	17.41
		6	2437		17.50	17.43
		10	2457		17.50	17.44
		11	2462		16.00	15.89
		12	2467		13.50	13.43
	802.11n40-HT0	3	2422	MCS0	15.00	14.97
		4	2427		16.00	15.92
		6	2437		16.00	15.93
		8	2447		16.00	15.91
9		2452	14.50		14.41	
10		2457	11.00		10.84	
11		2462	3.00		2.89	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.50	15.39
		40	5200		15.50	15.38
		44	5220		15.50	15.39
		48	5240		15.50	15.40
	802.11n20-HT0	36	5180	MCS0	15.50	15.39
		40	5200		15.50	15.40
		44	5220		15.50	15.34
		48	5240		15.50	15.41
	802.11ac20-VHT0	36	5180	MCS0	15.50	15.38
		40	5200		15.50	15.41
		44	5220		15.50	15.35
		48	5240		15.50	15.40
	802.11n40-HT0	38	5190	MCS0	15.50	15.44
		46	5230		15.50	15.41
	802.11ac40-VHT0	38	5190	MCS0	15.50	15.42
		46	5230		15.50	15.39
802.11ac80-VHT0	42	5210	MCS0	15.50	15.50	
802.11ac160-VHT0	50	5250	MCS0	13.50	13.44	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	15.50	15.43
		56	5280		15.50	15.42
		60	5300		15.50	15.49
		64	5320		15.50	15.50
	802.11n20-HT0	52	5260	MCS0	15.50	15.37
		56	5280		15.50	15.31
		60	5300		15.50	15.43
		64	5320		15.50	15.46
	802.11ac20-VHT0	52	5260	MCS0	15.50	15.39
		56	5280		15.50	15.35
		60	5300		15.50	15.44
		64	5320		15.50	15.41
	802.11n40-HT0	54	5270	MCS0	15.50	15.45
		62	5310		14.50	14.41
	802.11ac40-VHT0	54	5270	MCS0	15.50	15.46
		62	5310		14.50	14.44
802.11ac80-VHT0	58	5290	MCS0	15.50	15.50	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	15.50	15.35
		116	5580		15.50	15.41
		120	5600		15.50	15.31
		140	5700		15.50	15.36
		144	5720		15.50	15.32
	802.11n20-HT0	100	5500	MCS0	15.50	15.40
		116	5580		15.50	15.31
		120	5600		15.50	15.33
		140	5700		15.50	15.31
		144	5720		15.50	15.38
	802.11ac20-VHT0	100	5500	MCS0	15.50	15.36
		116	5580		15.50	15.34
		120	5600		15.50	15.38
		140	5700		15.50	15.39
		144	5720		15.50	15.43
	802.11n40-HT0	102	5510	MCS0	15.50	15.36
		110	5550		15.50	15.39
		118	5590		15.50	15.42
		134	5670		15.50	15.34
	802.11ac40-VHT0	102	5510	MCS0	15.50	15.34
		110	5550		15.50	15.36
		118	5590		15.50	15.33
		134	5670		15.50	15.39
		142	5710		15.50	15.41
	802.11ac80-VHT0	106	5530	MCS0	15.50	15.48
		122	5610		15.50	15.44
		138	5690		15.50	15.50
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.98

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Aux Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	15.50	15.45
		157	5785		15.50	15.37
		165	5825		15.50	15.41
	802.11n20-HT0	149	5745	MCS0	15.50	15.39
		157	5785		15.50	15.46
		165	5825		15.50	15.41
	802.11n40-VHT0	149	5745	MCS0	15.50	15.44
		157	5785		15.50	15.38
		165	5825		15.50	15.44
	802.11n40-HT0	151	5755	MCS0	15.50	15.46
		159	5795		15.50	15.40
	802.11ac40-VHT0	151	5755	MCS0	15.50	15.37
		159	5795		15.50	15.44
	802.11ac80-VHT0	155	5775	MCS0	15.50	15.48

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**Notebook mode (Full power)**

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	19.50	19.44
		2	2417		20.50	20.43
		6	2437		20.50	20.49
		10	2457		20.50	20.48
		11	2462		19.50	19.41
		12	2467		18.50	18.47
		13	2472		15.00	14.89
	802.11g	1	2412	6Mbps	16.00	15.95
		2	2417		18.50	18.43
		6	2437		20.50	20.41
		10	2457		18.50	18.45
		11	2462		16.50	16.42
		12	2467		13.00	12.91
		13	2472		-6.50	-6.51
	802.11n20-HT0	1	2412	MCS0	16.00	15.96
		2	2417		18.50	18.45
		6	2437		20.50	20.44
		10	2457		18.50	18.44
		11	2462		16.50	16.44
		12	2467		13.00	12.91
		13	2472		-6.50	-6.60
	802.11n40-HT0	3	2422	MCS0	14.50	14.49
		4	2427		16.00	15.97
		6	2437		16.00	15.96
		8	2447		16.00	15.95
		9	2452		14.00	13.91
		10	2457		10.50	10.43
		11	2462		3.50	3.42

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	19.00	18.95
		40	5200		20.50	20.49
		44	5220		20.50	20.48
		48	5240		20.50	20.50
	802.11n20-HT0	36	5180	MCS0	19.00	18.95
		40	5200		20.50	20.40
		44	5220		20.50	20.41
		48	5240		20.50	20.44
	802.11ac20-VHT0	36	5180	MCS0	19.00	18.92
		40	5200		20.50	20.41
		44	5220		20.50	20.46
		48	5240		20.50	20.40
	802.11n40-HT0	38	5190	MCS0	18.00	17.87
		46	5230		19.00	18.94
	802.11ac40-VHT0	38	5190	MCS0	18.00	17.90
		46	5230		19.00	18.95
802.11ac80-VHT0	42	5210	MCS0	17.50	17.44	
802.11ac160-VHT0	50	5250	MCS0	13.50	13.42	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	20.50	20.49
		56	5280		20.50	20.45
		60	5300		20.50	20.42
		64	5320		16.50	16.47
	802.11n20-HT0	52	5260	MCS0	20.50	20.43
		56	5280		20.50	20.38
		60	5300		20.50	20.43
		64	5320		16.50	16.39
	802.11ac20-VHT0	52	5260	MCS0	20.50	20.37
		56	5280		20.50	20.40
		60	5300		20.50	20.37
		64	5320		16.50	16.42
	802.11n40-HT0	54	5270	MCS0	18.50	18.39
		62	5310		14.50	14.35
	802.11ac40-VHT0	54	5270	MCS0	18.50	18.42
		62	5310		14.50	14.48
802.11ac80-VHT0	58	5290	MCS0	15.50	15.49	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	19.00	18.93
		104	5520		20.50	20.50
		116	5580		20.50	20.48
		120	5600		20.50	20.44
		136	5680		20.50	20.49
		140	5700		18.50	18.47
	802.11n20-HT0	100	5500	MCS0	19.00	18.99
		104	5520		20.50	20.43
		116	5580		20.50	20.45
		120	5600		20.50	20.49
		136	5680		20.50	20.49
		140	5700		18.50	18.49
	802.11ac20-VHT0	100	5500	MCS0	19.00	18.97
		104	5520		20.50	20.45
		116	5580		20.50	20.47
		120	5600		20.50	20.49
		136	5680		20.50	20.44
		140	5700		18.50	18.41
		144	5720		19.50	19.41
	802.11n40-HT0	102	5510	MCS0	16.50	16.41
		110	5550		20.50	20.44
		118	5590		20.50	20.47
		134	5670		19.50	19.43
	802.11ac40-VHT0	102	5510	MCS0	16.50	16.49
		110	5550		20.50	20.49
		118	5590		20.50	20.45
		134	5670		19.50	19.42
		142	5710		19.50	19.43
	802.11ac80-VHT0	106	5530	MCS0	17.00	17.00
		122	5610		20.50	20.47
		138	5690		20.50	20.50
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.97

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Main Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	20.50	20.50
		157	5785		20.50	20.44
		165	5825		20.50	20.43
	802.11n20-HT0	149	5745	MCS0	20.50	20.41
		157	5785		20.50	20.46
		165	5825		20.50	20.41
	802.11ac20-VHT0	149	5745	MCS0	20.50	20.46
		157	5785		20.50	20.47
		165	5825		20.50	20.40
	802.11n40-HT0	151	5755	MCS0	18.50	18.46
		159	5795		20.00	19.99
	802.11ac40-VHT0	151	5755	MCS0	18.50	18.42
		159	5795		20.00	19.97
	802.11ac80-VHT0	155	5775	MCS0	18.50	18.43

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	19.50	19.42
		2	2417		20.50	20.48
		6	2437		20.50	20.47
		10	2457		20.50	20.50
		11	2462		19.50	19.49
		12	2467		18.50	18.48
		13	2472		15.00	14.90
	802.11g	1	2412	6Mbps	16.00	15.99
		2	2417		17.50	17.48
		6	2437		20.50	20.43
		10	2457		18.50	18.41
		11	2462		16.00	15.90
		12	2467		13.50	13.43
		13	2472		-6.00	-6.08
	802.11n20-HT0	1	2412	MCS0	16.00	15.98
		2	2417		17.50	17.42
		6	2437		20.50	20.44
		10	2457		18.50	18.44
		11	2462		16.00	15.99
		12	2467		13.50	13.46
		13	2472		-6.00	-6.09
	802.11n40-HT0	3	2422	MCS0	15.00	14.97
		4	2427		16.00	15.99
		6	2437		16.00	15.96
		8	2447		16.00	15.97
		9	2452		14.50	14.40
		10	2457		11.00	10.90
		11	2462		3.00	2.98

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	18.50	18.44
		40	5200		20.00	19.92
		44	5220		20.50	20.41
		48	5240		20.50	20.47
	802.11n20-HT0	36	5180	MCS0	18.50	18.45
		40	5200		20.00	19.94
		44	5220		20.50	20.41
		48	5240		20.50	20.44
	802.11ac20-VHT0	36	5180	MCS0	18.50	18.35
		40	5200		20.00	19.89
		44	5220		20.50	20.43
		48	5240		20.50	20.46
	802.11n40-HT0	38	5190	MCS0	18.00	17.90
		46	5230		19.50	19.41
	802.11ac40-VHT0	38	5190	MCS0	18.00	17.85
		46	5230		19.50	19.38
802.11ac80-VHT0	42	5210	MCS0	18.00	17.92	
802.11ac160-VHT0	50	5250	MCS0	13.50	13.32	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	20.50	20.49
		56	5280		20.50	20.43
		60	5300		20.50	20.42
		64	5320		16.00	15.95
	802.11n20-HT0	52	5260	MCS0	20.50	20.41
		56	5280		20.50	20.46
		60	5300		20.50	20.47
		64	5320		16.00	15.89
	802.11ac20-VHT0	52	5260	MCS0	20.50	20.39
		56	5280		20.50	20.43
		60	5300		20.50	20.41
		64	5320		16.00	15.94
	802.11n40-HT0	54	5270	MCS0	18.50	18.49
		62	5310		14.50	14.43
	802.11ac40-VHT0	54	5270	MCS0	18.50	18.42
		62	5310		14.50	14.41
802.11ac80-VHT0	58	5290	MCS0	15.50	15.40	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	19.00	18.98
		104	5520		20.50	20.50
		116	5580		20.50	20.46
		120	5600		20.50	20.41
		136	5680		20.50	20.49
		140	5700		18.50	18.48
	802.11n20-HT0	100	5500	MCS0	19.00	18.90
		104	5520		20.50	20.43
		116	5580		20.50	20.41
		120	5600		20.50	20.41
		136	5680		20.50	20.40
		140	5700		18.50	18.46
	802.11ac20-VHT0	100	5500	MCS0	19.00	18.99
		104	5520		20.50	20.41
		116	5580		20.50	20.45
		120	5600		20.50	20.48
		136	5680		20.50	20.48
		140	5700		18.50	18.41
	802.11n40-HT0	102	5510	MCS0	17.00	16.91
		110	5550		20.50	20.43
		118	5590		20.50	20.46
		134	5670		18.50	18.44
	802.11ac40-VHT0	102	5510	MCS0	17.00	16.90
		110	5550		20.50	20.49
		118	5590		20.50	20.41
		134	5670		18.50	18.49
		142	5710		19.50	19.41
	802.11ac80-VHT0	106	5530	MCS0	17.50	17.42
		122	5610		20.50	20.46
		138	5690		20.50	20.50
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.98

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Aux Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	20.50	20.50
		157	5785		20.50	20.45
		165	5825		20.50	20.41
	802.11n20-HT0	149	5745	MCS0	20.50	20.44
		157	5785		20.50	20.48
		165	5825		20.50	20.43
	802.11n40-VHT0	149	5745	MCS0	20.50	20.45
		157	5785		20.50	20.40
		165	5825		20.50	20.41
	802.11n40-HT0	151	5755	MCS0	19.50	19.47
		159	5795		20.00	19.97
	802.11ac40-VHT0	151	5755	MCS0	19.50	19.49
		159	5795		20.00	19.91
	802.11ac80-VHT0	155	5775	MCS0	19.00	18.91

**Bluetooth conducted power table:**

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	9.50	7.94	5.50	5.34	5.50	5.36
	CH 39	2441	9.50	8.42	5.50	5.46	5.50	5.45
	CH 78	2480	9.50	8.66	5.50	5.41	5.50	5.42

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
LE	CH 00	2402	5.5	5.40
	CH 19	2440		5.32
	CH 39	2480		5.38

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### 1.3.1 LTE Downlink CA specification

#### LTE Downlink 2CA conducted power table

Two Component Carrier Maximum Conducted Power																
PCC								SCC				Power		Configurations	Maximum power	
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	LTE Tx.Power with DL CA active (dBm)			LTE Tx.Power with DL CA inactive (dBm)
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	22.78	22.93	CA_2A-2A	Full power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	19.43	19.47	CA_2A-2A	Reduced power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B17	10	5790	740	22.86	22.93	CA_2A-17A	Full power
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B17	10	5790	740	19.25	19.33	CA_2A-17A	Reduced power
LTE B17	10	23780	709	QPSK	1	0	5780	739	LTE B2	20	900	1960	23.01	23.08	CA_2A-17A	Full power
LTE B17	10	23780	709	QPSK	1	0	5780	739	LTE B2	20	900	1960	20.90	20.97	CA_2A-17A	Reduced power
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B4	20	2050	2120	23.39	23.45	CA_4A-4A	Full power
LTE B4	20	20300	1745	QPSK	100	0	2300	2145	LTE B4	20	2050	2120	20.42	20.44	CA_4A-4A	Reduced power
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B17	10	5790	740	23.44	23.45	CA_4A-17A	Full power
LTE B4	20	20300	1745	QPSK	100	0	2300	2145	LTE B17	10	5790	740	20.39	20.44	CA_4A-17A	Reduced power
LTE B17	10	23780	709	QPSK	1	0	5780	739	LTE B4	20	2175	2132.5	22.99	23.08	CA_4A-17A	Full power
LTE B17	10	23780	709	QPSK	1	0	5780	739	LTE B4	20	2175	2132.5	20.92	20.97	CA_4A-17A	Reduced power
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B7	20	21100	2535	23.86	23.97	CA_5A-7A	Full power
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B7	20	21100	2535	20.92	20.93	CA_5A-7A	Reduced power
LTE B7	20	21100	2535	QPSK	1	0	3100	2655	LTE B5	10	2525	881.5	23.33	23.47	CA_5A-7A	Full power
LTE B7	20	21100	2535	QPSK	1	0	3100	2655	LTE B5	10	2525	881.5	19.32	19.46	CA_5A-7A	Reduced power
LTE B7	15	20825	2507.5	QPSK	1	74	2825	2627.5	LTE B7	5	2918	2636	23.28	23.41	CA_7B	Full power
LTE B7	15	20825	2507.5	QPSK	36	37	2825	2627.5	LTE B7	5	2918	2636	19.34	19.46	CA_7B	Reduced power
LTE B7	20	21350	2560	QPSK	1	50	3350	2680	LTE B7	20	3152	2660.2	23.09	23.11	CA_7C	Full power
LTE B7	20	21350	2560	QPSK	1	50	3350	2680	LTE B7	20	3152	2660.2	19.35	19.45	CA_7C	Reduced power
LTE B7	20	21350	2560	QPSK	1	50	3350	2680	LTE B7	20	2850	2630	23.02	23.11	CA_7A-7A	Full power
LTE B7	20	21350	2560	QPSK	1	50	3350	2680	LTE B7	20	2850	2630	19.39	19.45	CA_7A-7A	Reduced power
LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	23.32	23.36	CA_141C	Full power
LTE B66	20	1770	132572	QPSK	1	0	67036	2170	LTE B66	20	65536	2120	23.65	23.71	CA_66A-66A	Full power
LTE B66	20	1770	132572	QPSK	1	0	67036	2170	LTE B66	20	65536	2120	19.34	19.48	CA_66A-66A	Reduced power

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

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### LTE Downlink 3CA conducted power table

Three Component Carrier Maximum Conducted Power																							
PCC										SCC 2										Power		Configurations	Maximum power
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC (DL) Channel	SCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	LTE Tx Power with DL CA active (dBm)	LTE Tx Power with DL CA inactive (dBm)						
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	22.89	22.93	CA_2A-4A-5A	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	19.18	19.33	CA_2A-4A-5A	Reduced power			
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	23.43	23.45	CA_2A-4A-5A	Full power			
LTE B4	20	20300	1745	QPSK	100	0	2300	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	20.29	20.44	CA_2A-4A-5A	Reduced power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	23.93	23.97	CA_2A-4A-5A	Full power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	20.91	20.93	CA_2A-4A-5A	Reduced power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2132.5	LTE B13	10	5230	751	22.90	22.93	CA_2A-4A-13A	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B4	20	2175	2132.5	LTE B13	10	5230	751	19.28	19.33	CA_2A-4A-13A	Reduced power			
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B2	20	900	1960	LTE B13	10	5230	751	23.42	23.45	CA_2A-4A-13A	Full power			
LTE B4	20	20300	1745	QPSK	100	0	2300	2145	LTE B2	20	900	1960	LTE B13	10	5230	751	20.42	20.44	CA_2A-4A-13A	Reduced power			
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	23.38	23.44	CA_2A-4A-13A	Full power			
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	20.94	20.99	CA_2A-4A-13A	Reduced power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1940	LTE B2	20	898	1959.8	23.88	23.97	CA_2C-5A	Full power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1940	LTE B2	20	898	1959.8	20.85	20.93	CA_2C-5A	Reduced power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	LTE B5	10	2525	881.5	22.78	22.93	CA_2C-5A	Full power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	LTE B5	10	2525	881.5	19.38	19.47	CA_2C-5A	Reduced power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	22.85	22.93	CA_2A-5A-30A	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	19.21	19.33	CA_2A-5A-30A	Reduced power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1960	LTE B30	10	9820	2355	23.82	23.97	CA_2A-5A-30A	Full power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1960	LTE B30	10	9820	2355	20.87	20.93	CA_2A-5A-30A	Reduced power			
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	19.90	19.95	CA_2A-5A-30A	Full power			
LTE B30	10	27710	2310	QPSK	50	0	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	18.90	18.93	CA_2A-5A-30A	Reduced power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	22.90	22.93	CA_2A-5A-66A	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	19.32	19.33	CA_2A-5A-66A	Reduced power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1960	LTE B66	20	66786	2145	23.85	23.97	CA_2A-5A-66A	Full power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1960	LTE B66	20	66786	2145	20.90	20.93	CA_2A-5A-66A	Reduced power			
LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B5	10	2525	881.5	23.67	23.71	CA_2A-5A-66A	Full power			
LTE B66	20	132322	1745	QPSK	100	0	66786	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	19.35	19.37	CA_2A-5A-66A	Reduced power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	22.87	22.93	CA_2A-12A-30A	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	19.28	19.33	CA_2A-12A-30A	Reduced power			
LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	22.61	22.68	CA_2A-12A-30A	Full power			
LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	20.77	20.80	CA_2A-12A-30A	Reduced power			
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B12	10	5095	737.5	LTE B2	20	900	1960	19.81	19.95	CA_2A-12A-30A	Full power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B13	10	5230	751	LTE B66	20	66786	2145	22.80	22.93	CA_2A-13A-66A	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B13	10	5230	751	LTE B66	20	66786	2145	19.23	19.33	CA_2A-13A-66A	Reduced power			
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B2	20	900	1960	LTE B66	20	66786	2145	23.37	23.44	CA_2A-13A-66A	Full power			
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B2	20	900	1960	LTE B66	20	66786	2145	20.98	20.99	CA_2A-13A-66A	Reduced power			
LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B13	10	5230	751	23.59	23.71	CA_2A-13A-66A	Full power			
LTE B66	20	132322	1745	QPSK	100	0	66786	2145	LTE B2	20	900	1960	LTE B13	10	5230	751	19.32	19.37	CA_2A-13A-66A	Reduced power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	22.87	22.93	CA_2A-29A-30A	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	19.21	19.33	CA_2A-29A-30A	Reduced power			
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B29	10	9715	722.5	19.81	19.95	CA_2A-29A-30A	Full power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B66	20	66536	2120	LTE B66	20	66734	2139.8	22.87	22.93	CA_2A-66B	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B66	20	66536	2120	LTE B66	20	66734	2139.8	19.30	19.33	CA_2A-66B	Reduced power			
LTE B66	10	132622	1775	QPSK	1	49	67086	2175	LTE B66	20	66987	2165.1	LTE B2	20	900	1960	23.36	23.41	CA_2A-66B	Full power			
LTE B66	10	132622	1775	QPSK	1	49	67086	2175	LTE B66	20	66987	2165.1	LTE B2	20	900	1960	19.26	19.37	CA_2A-66B	Reduced power			
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B66	20	66536	2120	LTE B66	20	66734	2139.8	22.78	22.93	CA_2A-66C	Full power			
LTE B2	20	18900	1880	QPSK	100	0	900	1960	LTE B66	20	66536	2120	LTE B66	20	66734	2139.8	19.19	19.33	CA_2A-66C	Reduced power			
LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66734	2139.8	LTE B2	20	900	1960	23.70	23.71	CA_2A-66C	Full power			
LTE B66	20	132572	1770	QPSK	1	0	66838	2150.2	LTE B66	20	66734	2139.8	LTE B2	20	900	1960	19.39	19.48	CA_2A-66C	Reduced power			
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	23.39	23.45	CA_4A-5A-30A	Full power			
LTE B4	20	20300	1745	QPSK	100	0	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	20.37	20.44	CA_4A-5A-30A	Reduced power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	23.89	23.97	CA_4A-5A-30A	Full power			
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	20.89	20.93	CA_4A-5A-30A	Reduced power			
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	19.82	19.95	CA_4A-5A-30A	Full power			
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	23.44	23.45	CA_4A-12A-30A	Full power			
LTE B4	20	20300	1745	QPSK	100	0	2300	2145	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	20.40	20.44	CA_4A-12A-30A	Reduced power			
LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	22.56	22.68	CA_4A-12A-30A	Full power			
LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	20.69	20.80	CA_4A-12A-30A	Reduced power			
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B12	10	5095	737.5	20.86	19.95	CA_4A-12A-30A	Full power			
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	23.31	23.45	CA_4A-29A-30A	Full power			
LTE B4	20	20300	1745	QPSK	100	0	2300	2145	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	20.39	20.44	CA_4A-29A-30A				

## LTE CA information

### A)

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

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.521-1 V14.3.0. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1 V14.3.0. According to KDB 941225 D05A and RF exposure procedures in TCB workshop April 2018, the downlink LTE CA SAR test is not required.

### B)

#### CA combination table

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset
2CC #1	CA 2C		3CC #3	3CC #1	CA 2A-4A-5A		No
2CC #2	CA 2A-2A		No	3CC #2	CA 2A-4A-13A		No
2CC #3	CA 2A-4A		3CC #1	3CC #3	CA 2C-5A		No
2CC #4	CA 2A-5A		3CC #4	3CC #4	CA 2A-5A-30A		No
2CC #5	CA 2A-12A		3CC #6	3CC #5	CA 2A-5A-66A		No
2CC #6	CA 2A-13A		3CC #7	3CC #6	CA 2A-12A-30A		No
2CC #7	CA 2A-17A		No	3CC #7	CA 2A-13A-66A		No
2CC #8	CA 2A-29A	B29 SCC only	3CC #8	3CC #8	CA 2A-29A-30A	B29 SCC only	No
2CC #9	CA 2A-30A		3CC #4	3CC #9	CA 2A-66B		No
2CC #10	CA 2A-66A		3CC #5	3CC #10	CA 2A-66C		No
2CC #11	CA 4A-4A		No	3CC #11	CA 4A-5A-30A		No
2CC #12	CA 4A-5A		3CC #11	3CC #12	CA 4A-12A-30A		No
2CC #13	CA 4A-12A		3CC #12	3CC #13	CA 4A-29A-30A	B29 SCC only	No
2CC #14	CA 4A-13A		3CC #2	3CC #14	CA 5A-66B		No
2CC #15	CA 4A-17A		No	3CC #15	CA 5A-66C		No
2CC #16	CA 4A-29A	B29 SCC only	3CC #13	3CC #16	CA 66D		No
2CC #17	CA 4A-30A		3CC #11	3CC #17	CA 13A-66B		No
2CC #18	CA 5A-7A		No	3CC #18	CA 13A-66C		No
2CC #19	CA 5A-30A		3CC #4				
2CC #20	CA 5A-66A		3CC #5				
2CC #21	CA-7B		No				
2CC #22	CA-7C		No				
2CC #23	CA-7A-7A		No				
2CC #24	CA 12A-30A		3CC #6				
2CC #25	CA 13A-66A		3CC #7				
2CC #26	CA 29A-30A		3CC #8				
2CC #27	CA 41C		No				
2CC #28	CA 41A-41A		No				
2CC #29	CA 66B		3CC #9				
2CC #30	CA 66C		3CC #10				
2CC #31	CA 66A-66A		No				

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**Note:**

- 1) For the inter-band CA combinations, except B29 can't be PCC, all the listed bands above can be used as PCC or SCC.
- 2) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V14.3.0.
- 3) The reference test frequencies for CA refers to 3GPP TS 36.508 V14.2.0
- 4) Testing is not required in bands or modes not intended/allowed for US operation
- 5) Based on TCB workshop April 2018, only indicate "No" in CA combination table need power measurement

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## 1.4 Test Environment

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

## 1.5 Operation Description

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

For WLAN, using chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

There are two antenna vendors for this device, one is AWAN, another is HONG-BO, and both of them were tested fully and respectively.

EUT was tested as below based on KDB inquiry.

### WCDMA BII/IV/V / LTE B2/4/5/7/12/13/17/26/66 / WLAN

#### Tablet mode

Back/top/bottom/right/left sides\_0mm with reduced power

#### Laptop mode

SAR measurement for Laptop SAR with full power is not required since the distance between antenna and user is > 20cm

### LTE B30/38/41

#### Tablet mode

Back/top/bottom/right/left sides\_0mm with full power

#### Laptop mode

SAR measurement for Laptop SAR with full power is not required since the distance between antenna and user is > 20cm

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

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}^{(1)(2)}$	CM <sup>(3)</sup> (dB)	MPR <sup>(3)</sup> (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 <sup>(4)</sup>	15/15 <sup>(4)</sup>	64	12/15 <sup>(4)</sup>	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ .

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta_{ACK}$  and  $\Delta_{NACK} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ , and  $\Delta_{CQI} = 24/15$  with  $\beta_{HS} = 24/15 * \beta_c$ .

Note 3: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{HS}/\beta_c = 24/15$ . For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

3. 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:

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Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c / \beta_d$	$\beta_{HS}^{(1)}$	$\beta_{ec}$	$\beta_{ed}^{(4)(5)}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM <sup>(2)</sup> (dB)	MPR <sup>(2)(5)</sup> (dB)	AG <sup>(5)</sup> Index	E-TFCI
1	11/15 <sup>(3)</sup>	15/15 <sup>(3)</sup>	64	11/15 <sup>(3)</sup>	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ . For sub-test 5,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 5/15$  with  $\beta_{HS} = 5/15 * \beta_c$ .  
 Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{HS}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCCH, HS-DPCCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.  
 Note 3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .  
 Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.  
 Note 5:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.  
 Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

4. 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  $\leq 1/4$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

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

Sub-test	$\beta_c$ (Note 3)	$\beta_d$	$\beta_{HS}$ (Note 1)	$\beta_{ec}$	$\beta_{ed}$ (2xSF2) (Note 4)	$\beta_{ed}$ (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{ed1}: 30/15$ $\beta_{ed2}: 30/15$	$\beta_{ed3}: 24/15$ $\beta_{ed4}: 24/15$	3.5	2.5	14	105	105

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ .  
 Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).  
 Note 3: DPDCH is not configured, therefore the  $\beta_c$  is set to 1 and  $\beta_d = 0$  by default.  
 Note 4:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.  
 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.

5. 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

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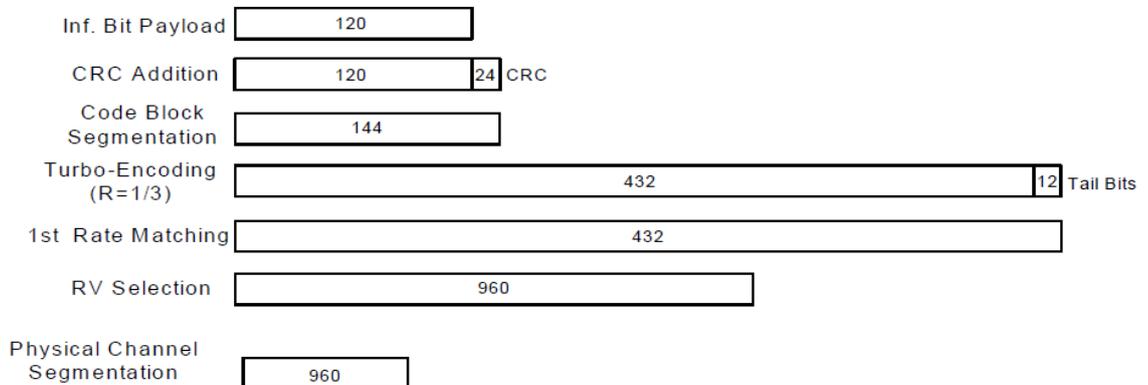
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following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

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

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

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



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

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

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Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}^{(1)(2)}$	CM <sup>(3)</sup> (dB)	MPR <sup>(3)</sup> (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 <sup>(4)</sup>	15/15 <sup>(4)</sup>	64	12/15 <sup>(4)</sup>	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CCI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ .

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta_{ACK}$  and  $\Delta_{NACK} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ , and  $\Delta_{CCI} = 24/15$  with  $\beta_{HS} = 24/15 * \beta_c$ .

Note 3: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{HS}/\beta_c = 24/15$ . For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

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

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

- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
- When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.

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

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

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

- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are  $\leq 0.8$  W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.

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d. Per Section 5.2.4, Higher order modulations

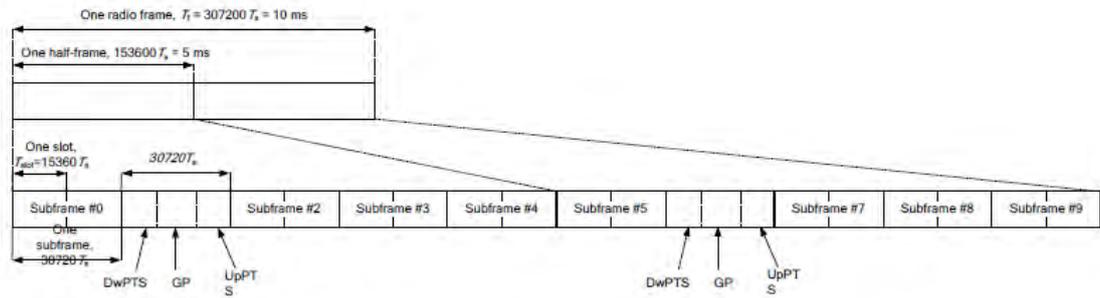
- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power 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

- 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 S subframes using extended cyclic prefix only and special subframe configuration 7. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for 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.

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3GPP TS 36.211 Figure 4.2-1: Frame Structure Type 2

Special Subframe Configuration	Normal Cyclic Prefix in Downlink			Extended Cyclic Prefix in Downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink
0	6592 · Ts	2192 · Ts	2560 · Ts	7680 · Ts	2192 · Ts	2560 · Ts
1	19760 · Ts			20480 · Ts		
2	21952 · Ts			23040 · Ts		
3	24144 · Ts			25600 · Ts		
4	26336 · Ts			7680 · Ts		
5	6592 · Ts	4384 · Ts	5120 · Ts	20480 · Ts	4384 · Ts	5120 · Ts
6	19760 · Ts			23040 · Ts		
7	21952 · Ts			12800 · Ts		
8	24144 · Ts			-		
9	13168 · Ts	-	-	-	-	-

3GPP TS 36.211 Table 4.2-1: Configuration of Special Subframe

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-Point Periodicity	Subframe Number										
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	
1	5 ms	D	S	U	U	D	D	S	U	U	D	
2	5 ms	D	S	U	D	D	D	S	U	D	D	
3	10 ms	D	S	U	U	U	D	D	D	D	D	
4	10 ms	D	S	U	U	D	D	D	D	D	D	
5	10 ms	D	S	U	D	D	D	D	D	D	D	
6	5 ms	D	S	U	U	U	D	S	U	U	D	

3GPP TS 36.211 Table 4.2-2: Uplink-Downlink Configurations

The uplink duty cycle of these seven configurations can be computed as below.

UL-DL Configuration	0	1	2	3	4	5	6
Highest Duty-Cycle	63.33%	43.33%	23.33%	31.67%	21.67%	11.67%	53.33%

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 7 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%.

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## LTE downlink CA (KDB942225 D05A)

7. 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 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.
8. 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.
9. 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.
10. When downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than  $\frac{1}{4}$  dB higher than the maximum output power measured when downlink carrier aggregation inactive, so SAR evaluation is not required for downlink carrier aggregation.

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11. According to KDB447498D01v06, SAR test exclusion evaluation for surfaces/edges of tablet mode is not required since SAR measurements for all the surfaces/edges were performed.
12. According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq 0.8$  W/kg, when the transmission band is  $\leq 100$  MHz.
13. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8$  W/kg, repeated that measurement once. Perform a second repeated measurement only 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  $\geq 1.45$  W/kg (~ 10% from the 1-g SAR limit)
14. SAR test for stand mode is excluded from testing based on FCC guidance (KDB inquiry).

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## 1.6 Operating modes validation by power measurement

The device is a convertible laptop computer with predefined single fixed power to each device modes.

For the operating modes validation, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

DUT operating mode	Lid Angle description	WWAN TX state	WLAN TX state
Lid Close	$0^\circ \leq \text{Lid angle} < 35^\circ$	No TX Transmission	No TX Transmission
Notebook	$35^\circ \leq \text{Lid angle} < 130^\circ$	Full Power Level	Full Power Level
Non-Notebook mode	$130^\circ \leq \text{Lid angle} \leq 360^\circ$	Reduced Power Level	Reduced Power Level
Stand mode	$200^\circ < \text{Lid angle} < 345^\circ$	Full Power Level	Full Power Level

Intel 9560NGW	WLAN Main		WLAN Aux	
	Full power (dBm)	Reduced power (dBm)	Full power (dBm)	Reduced power (dBm)
Wireless technology				
WLAN802.11b	20.5	17.5	20.5	17.5
WLAN802.11g	20.5	17.5	20.5	17.5
WLAN802.11n(20M)	20.5	17.5	20.5	17.5
WLAN802.11n(40M)	16	16	16	16
WLAN802.11a 5.2GHz	20.5	15.5	20.5	15.5
WLAN802.11n(20M) 5.2GHz	20.5	15.5	20.5	15.5
WLAN802.11n(40M) 5.2GHz	19	15.5	19.5	15.5
WLAN802.11ac(20M) 5.2GHz	20.5	15.5	20.5	15.5
WLAN802.11ac(40M) 5.2GHz	19	15.5	19.5	15.5
WLAN802.11ac(80M) 5.2GHz	17.5	15.5	18	15.5
WLAN802.11ac(160M) 5.2GHz	13.5	13.5	13.5	13.5
WLAN802.11a 5.3GHz	20.5	15.5	20.5	15.5
WLAN802.11n(20M) 5.3GHz	20.5	15.5	20.5	15.5
WLAN802.11n(40M) 5.3GHz	18.5	15.5	18.5	15.5
WLAN802.11ac(20M) 5.3GHz	20.5	15.5	20.5	15.5
WLAN802.11ac(40M) 5.3GHz	18.5	15.5	18.5	15.5
WLAN802.11ac(80M) 5.3GHz	15.5	15.5	15.5	15.5
WLAN802.11a 5.6GHz	20.5	15.5	20.5	15.5
WLAN802.11n(20M) 5.6GHz	20.5	15.5	20.5	15.5
WLAN802.11n(40M) 5.6GHz	20.5	15.5	20.5	15.5
WLAN802.11ac(20M) 5.6GHz	20.5	15.5	20.5	15.5
WLAN802.11ac(40M) 5.6GHz	20.5	15.5	20.5	15.5
WLAN802.11ac(80M) 5.6GHz	20.5	15.5	20.5	15.5
WLAN802.11ac(160M) 5.6GHz	15	15	15	15
WLAN802.11a 5.8GHz	20.5	15.5	20.5	15.5
WLAN802.11n(20M) 5.8GHz	20.5	15.5	20.5	15.5
WLAN802.11n(40M) 5.8GHz	20	15.5	20	15.5
WLAN802.11ac(20M) 5.8GHz	20.5	15.5	20.5	15.5
WLAN802.11ac(40M) 5.8GHz	20	15.5	20	15.5
WLAN802.11ac(80M) 5.8GHz	18.5	15.5	19	15.5

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Fibocom L850-GL	WWAN	
	Full power (dBm)	Reduced power (dBm)
Wireless technology		
WCDMA Band II	24.5	19
WCDMA Band IV	24.5	19.5
WCDMA Band V	24.5	21
LTE B2	24	19.5
LTE B4	24	20.5
LTE B5	25	21
LTE B7	24	19.5
LTE B12	24	21
LTE B13	24	21
LTE B17	24	21
LTE B26	24	21
LTE B30	20	20
LTE B38	24	24
LTE B41	24	24
LTE B66	24	19.5

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### 1.6.1 Results and conclusion

The measured output power versus lid angle is tabulated in the following table, and the triggering verification complies with the device mode / power level declared by the manufacturer.

#### Operating mode validation by power measurement

Antenna	Operation mode	Lid angle	802.11b	802.11ac(80M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(160M) 5.6G	802.11ac(80M) 5.8G
WLAN Main	Lid close	0°	n/a	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a	n/a
		35°	20.45	17.36	15.33	20.31	14.81	18.49
		36°	20.44	17.46	15.31	20.40	14.94	18.35
	37°	20.44	17.47	15.39	20.48	14.85	18.32	
	38°	20.34	17.37	15.43	20.39	14.85	18.40	
	39°	20.39	17.42	15.35	20.38	14.85	18.42	
	40°	20.38	17.38	15.41	20.39	14.86	18.34	
	50°	20.34	17.44	15.45	20.50	14.88	18.40	
	60°	20.33	17.49	15.47	20.39	14.95	18.31	
	70°	20.34	17.48	15.36	20.41	14.85	18.44	
	80°	20.36	17.46	15.36	20.42	15.00	18.32	
	90°	20.31	17.43	15.47	20.49	14.97	18.45	
	100°	20.43	17.40	15.43	20.50	14.86	18.46	
	110°	20.38	17.35	15.44	20.49	14.98	18.32	
	120°	20.36	17.49	15.47	20.41	14.91	18.37	
	125°	20.33	17.42	15.36	20.49	14.94	18.45	
	126°	20.32	17.45	15.31	20.33	14.98	18.39	
	127°	20.40	17.39	15.50	20.42	14.99	18.43	
	128°	20.33	17.43	15.38	20.45	15.00	18.42	
	129°	20.44	17.46	15.45	20.33	14.98	18.34	
	130°	17.33	15.46	15.49	15.34	14.99	15.46	
	131°	17.34	15.46	15.33	15.42	14.98	15.31	
	132°	17.38	15.39	15.39	15.33	14.86	15.32	
	133°	17.41	15.49	15.50	15.37	14.92	15.41	
	134°	17.43	15.49	15.32	15.36	14.88	15.31	
	135°	17.37	15.40	15.49	15.35	14.95	15.46	
	140°	17.39	15.47	15.46	15.50	14.86	15.47	
	150°	17.44	15.39	15.36	15.50	14.89	15.42	
	160°	17.50	15.37	15.39	15.32	14.99	15.41	
	170°	17.50	15.47	15.34	15.40	14.99	15.40	
	180°	17.32	15.42	15.38	15.37	14.87	15.39	
	190°	17.38	15.39	15.50	15.40	15.00	15.35	
	200°	17.48	15.44	15.41	15.47	14.94	15.36	
	210°	17.33	15.49	15.39	15.41	14.93	15.36	
	220°	17.39	15.40	15.44	15.38	14.85	15.37	
	230°	17.46	15.48	15.32	15.44	14.82	15.35	
	240°	17.50	15.48	15.34	15.32	14.82	15.33	
	250°	17.31	15.39	15.40	15.42	14.86	15.35	
	260°	17.50	15.36	15.37	15.41	14.92	15.44	
	270°	17.39	15.34	15.34	15.44	14.88	15.36	
	280°	17.46	15.34	15.46	15.36	14.90	15.37	
	290°	17.47	15.44	15.31	15.44	14.98	15.49	
	300°	17.46	15.34	15.31	15.39	14.81	15.45	
	310°	17.39	15.49	15.31	15.41	14.94	15.49	
	320°	17.44	15.48	15.47	15.36	15.00	15.42	
	330°	17.42	15.40	15.36	15.50	14.82	15.35	
	340°	17.46	15.44	15.35	15.43	14.97	15.41	
	350°	17.49	15.40	15.50	15.45	14.95	15.46	
	360°	17.43	15.47	15.45	15.32	14.92	15.42	
	201°	20.48	17.34	15.38	20.34	14.92	18.34	
	202°	20.34	17.31	15.49	20.45	14.89	18.41	
	203°	20.46	17.34	15.34	20.45	14.82	18.33	
	204°	20.42	17.40	15.35	20.44	14.88	18.42	
	205°	20.48	17.37	15.42	20.40	14.83	18.35	
	210°	20.34	17.31	15.34	20.38	14.82	18.45	
	220°	20.36	17.48	15.46	20.41	14.95	18.37	
	230°	20.33	17.41	15.44	20.49	14.86	18.36	
	240°	20.38	17.46	15.39	20.49	14.94	18.35	
	250°	20.34	17.37	15.31	20.45	14.84	18.50	
	260°	20.50	17.38	15.34	20.49	14.87	18.32	
	270°	20.50	17.38	15.40	20.49	14.85	18.44	
	280°	20.36	17.31	15.42	20.37	14.83	18.35	
	290°	20.47	17.49	15.50	20.39	15.00	18.43	
	300°	20.40	17.50	15.36	20.38	14.92	18.36	
	310°	20.35	17.38	15.39	20.31	14.90	18.42	
	320°	20.33	17.45	15.47	20.47	14.96	18.39	
	330°	20.42	17.44	15.50	20.50	14.83	18.45	
	340°	20.44	17.38	15.40	20.32	14.89	18.32	
	341°	20.46	17.42	15.47	20.32	14.82	18.50	
	342°	20.42	17.46	15.32	20.43	14.88	18.49	
	343°	20.35	17.49	15.44	20.42	14.89	18.48	
	344°	20.33	17.50	15.31	20.42	14.91	18.39	

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Antenna	Operation mode	Lid angle	802.11b	802.11ac(80M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(160M) 5.6G	802.11ac(80M) 5.8G	
WLAN Main	Stand	344°	20.44	17.38	15.48	20.41	14.99	18.48	
		343°	20.36	17.34	15.39	20.34	14.83	18.39	
		342°	20.32	17.41	15.34	20.35	14.92	18.39	
		341°	20.48	17.40	15.49	20.40	14.98	18.40	
		340°	20.46	17.44	15.46	20.49	14.94	18.40	
		330°	20.49	17.33	15.42	20.46	14.93	18.40	
		320°	20.40	17.49	15.37	20.31	14.82	18.46	
		310°	20.39	17.44	15.38	20.46	14.98	18.40	
		300°	20.35	17.34	15.41	20.34	15.00	18.36	
		290°	20.36	17.43	15.49	20.38	14.84	18.35	
		280°	20.32	17.42	15.46	20.45	14.84	18.42	
		270°	20.47	17.46	15.37	20.40	14.97	18.31	
		260°	20.41	17.50	15.35	20.47	14.90	18.50	
		250°	20.38	17.33	15.37	20.45	14.96	18.49	
		240°	20.45	17.35	15.49	20.46	14.98	18.43	
		230°	20.50	17.49	15.48	20.32	15.00	18.39	
		220°	20.42	17.50	15.49	20.34	14.94	18.44	
		210°	20.46	17.37	15.43	20.48	14.94	18.49	
		205°	20.34	17.36	15.42	20.42	14.97	18.42	
		204°	20.48	17.33	15.44	20.34	14.81	18.48	
		203°	20.36	17.46	15.40	20.32	14.99	18.40	
		202°	20.47	17.44	15.36	20.47	14.93	18.33	
		201°	20.33	17.35	15.42	20.41	14.96	18.44	
		360°	17.31	15.46	15.45	15.50	14.99	15.48	
		350°	17.46	15.32	15.33	15.50	14.81	15.36	
		340°	17.31	15.44	15.47	15.32	14.95	15.47	
		330°	17.32	15.32	15.49	15.34	14.93	15.40	
		320°	17.42	15.36	15.31	15.46	14.82	15.33	
		310°	17.42	15.39	15.42	15.40	14.97	15.31	
		300°	17.32	15.49	15.31	15.47	14.81	15.48	
	290°	17.44	15.47	15.31	15.48	14.95	15.41		
	280°	17.33	15.41	15.47	15.49	14.94	15.49		
	270°	17.39	15.40	15.31	15.37	14.85	15.32		
	260°	17.47	15.38	15.43	15.43	14.96	15.38		
	250°	17.31	15.39	15.34	15.48	14.93	15.39		
	240°	17.42	15.46	15.38	15.43	14.85	15.46		
	230°	17.45	15.42	15.48	15.34	14.90	15.44		
	220°	17.32	15.32	15.45	15.38	14.94	15.41		
	210°	17.42	15.33	15.46	15.36	14.83	15.36		
	200°	17.41	15.43	15.36	15.49	14.83	15.40		
	190°	17.45	15.36	15.42	15.33	14.94	15.47		
	180°	17.44	15.47	15.32	15.48	14.82	15.41		
	170°	17.43	15.45	15.43	15.43	14.85	15.44		
	160°	17.50	15.44	15.38	15.42	14.82	15.48		
	150°	17.50	15.46	15.50	15.41	14.98	15.43		
	140°	17.49	15.43	15.48	15.34	14.91	15.43		
	135°	17.47	15.42	15.50	15.40	14.92	15.46		
	134°	17.32	15.38	15.46	15.31	14.82	15.37		
	133°	17.43	15.42	15.45	15.35	14.89	15.40		
	132°	17.47	15.40	15.46	15.34	14.91	15.41		
	131°	17.42	15.44	15.43	15.47	14.88	15.31		
	130°	17.46	15.35	15.36	15.38	14.97	15.32		
	129°	20.47	17.38	15.38	20.37	14.91	18.37		
	128°	20.42	17.45	15.31	20.44	15.00	18.39		
	127°	20.33	17.35	15.47	20.33	14.98	18.49		
	126°	20.32	17.42	15.37	20.36	14.88	18.32		
	125°	20.31	17.44	15.48	20.32	14.91	18.43		
	120°	20.37	17.49	15.38	20.46	14.89	18.48		
	110°	20.36	17.43	15.46	20.48	14.86	18.42		
	100°	20.48	17.43	15.45	20.32	14.82	18.42		
	90°	20.40	17.34	15.50	20.50	14.91	18.42		
	80°	20.43	17.42	15.35	20.36	14.84	18.48		
	70°	20.43	17.33	15.36	20.47	14.94	18.31		
	60°	20.32	17.36	15.47	20.45	14.95	18.47		
	50°	20.37	17.42	15.46	20.50	14.97	18.32		
	40°	20.50	17.40	15.39	20.46	14.91	18.49		
	39°	20.38	17.44	15.46	20.47	14.89	18.40		
	38°	20.46	17.36	15.38	20.46	14.89	18.35		
	37°	20.50	17.38	15.46	20.34	14.85	18.45		
	36°	20.32	17.33	15.49	20.45	14.96	18.31		
	35°	20.49	17.38	15.46	20.35	15.00	18.47		
	34°	n/a	n/a	n/a	n/a	n/a	n/a		
	33°	n/a	n/a	n/a	n/a	n/a	n/a		
	32°	n/a	n/a	n/a	n/a	n/a	n/a		
	31°	n/a	n/a	n/a	n/a	n/a	n/a		
	30°	n/a	n/a	n/a	n/a	n/a	n/a		
	20°	n/a	n/a	n/a	n/a	n/a	n/a		
	10°	n/a	n/a	n/a	n/a	n/a	n/a		
	0°	n/a	n/a	n/a	n/a	n/a	n/a		
	WLAN Main	Non-Notebook	360°	17.31	15.46	15.45	15.50	14.99	15.48
			350°	17.46	15.32	15.33	15.50	14.81	15.36
			340°	17.31	15.44	15.47	15.32	14.95	15.47
			330°	17.32	15.32	15.49	15.34	14.93	15.40
			320°	17.42	15.36	15.31	15.46	14.82	15.33
			310°	17.42	15.39	15.42	15.40	14.97	15.31
			300°	17.32	15.49	15.31	15.47	14.81	15.48
			290°	17.44	15.47	15.31	15.48	14.95	15.41
			280°	17.33	15.41	15.47	15.49	14.94	15.49
			270°	17.39	15.40	15.31	15.37	14.85	15.32
			260°	17.47	15.38	15.43	15.43	14.96	15.38
			250°	17.31	15.39	15.34	15.48	14.93	15.39
			240°	17.42	15.46	15.38	15.43	14.85	15.46
			230°	17.45	15.42	15.48	15.34	14.90	15.44
			220°	17.32	15.32	15.45	15.38	14.94	15.41
			210°	17.42	15.33	15.46	15.36	14.83	15.36
			200°	17.41	15.43	15.36	15.49	14.83	15.40
			190°	17.45	15.36	15.42	15.33	14.94	15.47
			180°	17.44	15.47	15.32	15.48	14.82	15.41
			170°	17.43	15.45	15.43	15.43	14.85	15.44
			160°	17.50	15.44	15.38	15.42	14.82	15.48
150°			17.50	15.46	15.50	15.41	14.98	15.43	
140°			17.49	15.43	15.48	15.34	14.91	15.43	
135°			17.47	15.42	15.50	15.40	14.92	15.46	
134°			17.32	15.38	15.46	15.31	14.82	15.37	
133°			17.43	15.42	15.45	15.35	14.89	15.40	
132°			17.47	15.40	15.46	15.34	14.91	15.41	
131°			17.42	15.44	15.43	15.47	14.88	15.31	
130°			17.46	15.35	15.36	15.38	14.97	15.32	
129°			20.47	17.38	15.38	20.37	14.91	18.37	
128°	20.42	17.45	15.31	20.44	15.00	18.39			
127°	20.33	17.35	15.47	20.33	14.98	18.49			
126°	20.32	17.42	15.37	20.36	14.88	18.32			
125°	20.31	17.44	15.48	20.32	14.91	18.43			
120°	20.37	17.49	15.38	20.46	14.89	18.48			
110°	20.36	17.43	15.46	20.48	14.86	18.42			
100°	20.48	17.43	15.45	20.32	14.82	18.42			
90°	20.40	17.34	15.50	20.50	14.91	18.42			
80°	20.43	17.42	15.35	20.36	14.84	18.48			
70°	20.43	17.33	15.36	20.47	14.94	18.31			
60°	20.32	17.36	15.47	20.45	14.95	18.47			
50°	20.37	17.42	15.46	20.50	14.97	18.32			
40°	20.50	17.40	15.39	20.46	14.91	18.49			
39°	20.38	17.44	15.46	20.47	14.89	18.40			
38°	20.46	17.36	15.38	20.46	14.89	18.35			
37°	20.50	17.38	15.46	20.34	14.85	18.45			
36°	20.32	17.33	15.49	20.45	14.96	18.31			
35°	20.49	17.38	15.46	20.35	15.00	18.47			
34°	n/a	n/a	n/a	n/a	n/a	n/a			
33°	n/a	n/a	n/a	n/a	n/a	n/a			
32°	n/a	n/a	n/a	n/a	n/a	n/a			
31°	n/a	n/a	n/a	n/a	n/a	n/a			
30°	n/a	n/a	n/a	n/a	n/a	n/a			
20°	n/a	n/a	n/a	n/a	n/a	n/a			
10°	n/a	n/a	n/a	n/a	n/a	n/a			
0°	n/a	n/a	n/a	n/a	n/a	n/a			
WLAN Main	Lid close	34°	n/a	n/a	n/a	n/a	n/a	n/a	
		33°	n/a	n/a	n/a	n/a	n/a	n/a	
		32°	n/a	n/a	n/a	n/a	n/a	n/a	
		31°	n/a	n/a	n/a	n/a	n/a	n/a	
		30°	n/a	n/a	n/a	n/a	n/a	n/a	
		20°	n/a	n/a	n/a	n/a	n/a	n/a	

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

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Antenna	Operation mode	Lid angle	802.11b	802.11ac(80M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(160M) 5.6G	802.11ac(80M) 5.8G
WLAN Aux	Lid close	0°	n/a	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a	n/a
	Notebook	35°	20.36	17.93	15.32	20.42	15.00	18.93
		36°	20.44	17.84	15.31	20.31	14.95	18.90
		37°	20.48	17.84	15.45	20.42	14.91	18.94
		38°	20.43	17.89	15.47	20.36	14.96	18.82
		39°	20.47	17.89	15.37	20.45	14.99	18.97
		40°	20.50	17.84	15.48	20.49	14.96	18.87
		50°	20.32	17.91	15.39	20.39	14.90	18.91
		60°	20.40	17.89	15.35	20.42	14.99	18.96
		70°	20.39	17.86	15.42	20.35	14.87	18.92
		80°	20.34	17.90	15.39	20.46	14.86	18.91
		90°	20.46	17.93	15.33	20.48	14.94	18.87
		100°	20.42	17.86	15.46	20.37	14.87	18.85
		110°	20.38	17.95	15.38	20.44	14.85	18.87
		120°	20.48	17.81	15.36	20.40	14.98	18.89
		125°	20.34	17.99	15.50	20.44	14.90	18.97
		126°	20.44	17.97	15.42	20.36	14.96	18.86
	127°	20.34	17.81	15.38	20.42	14.99	18.91	
	128°	20.41	17.99	15.42	20.35	14.99	18.97	
	129°	20.46	17.95	15.45	20.42	14.98	18.95	
	Non-Notebook	130°	17.37	15.49	15.44	15.44	14.91	15.31
		131°	17.42	15.36	15.50	15.38	14.98	15.50
		132°	17.40	15.33	15.38	15.33	14.95	15.43
		133°	17.40	15.36	15.50	15.34	14.91	15.40
		134°	17.34	15.46	15.44	15.40	14.88	15.38
		135°	17.42	15.32	15.48	15.45	14.84	15.36
		140°	17.36	15.45	15.31	15.36	14.95	15.41
		150°	17.39	15.38	15.33	15.38	14.82	15.34
		160°	17.47	15.31	15.37	15.37	14.98	15.44
		170°	17.36	15.32	15.46	15.32	14.88	15.35
		180°	17.49	15.48	15.45	15.44	14.81	15.46
		190°	17.49	15.31	15.35	15.36	14.89	15.33
		200°	17.43	15.37	15.50	15.35	14.97	15.41
		210°	17.33	15.42	15.31	15.44	14.99	15.47
		220°	17.35	15.49	15.43	15.40	14.91	15.46
		230°	17.37	15.35	15.38	15.39	14.88	15.32
		240°	17.40	15.34	15.46	15.45	14.83	15.44
250°		17.47	15.40	15.43	15.37	14.92	15.31	
260°		17.47	15.38	15.33	15.41	14.99	15.32	
270°		17.39	15.41	15.49	15.45	14.84	15.33	
280°		17.39	15.45	15.34	15.31	14.94	15.43	
290°		17.34	15.48	15.38	15.36	14.96	15.48	
300°		17.44	15.31	15.43	15.47	14.97	15.45	
310°		17.36	15.31	15.48	15.46	14.84	15.40	
320°		17.45	15.40	15.47	15.34	14.89	15.39	
330°		17.42	15.35	15.46	15.37	15.00	15.41	
340°	17.33	15.42	15.48	15.43	14.86	15.34		
350°	17.38	15.46	15.42	15.42	15.00	15.43		
360°	17.37	15.44	15.42	15.31	14.81	15.50		
Stand	201°	20.45	17.91	15.44	20.48	14.89	18.86	
	202°	20.41	17.89	15.37	20.44	14.95	18.81	
	203°	20.34	17.98	15.49	20.42	14.95	18.99	
	204°	20.44	17.98	15.33	20.35	14.89	18.84	
	205°	20.47	17.92	15.44	20.43	14.94	18.94	
	210°	20.32	17.93	15.31	20.38	14.84	18.86	
	220°	20.40	17.94	15.33	20.47	14.83	18.81	
	230°	20.33	17.90	15.36	20.49	14.89	18.88	
	240°	20.43	17.90	15.37	20.34	14.99	18.81	
	250°	20.32	17.93	15.42	20.49	14.82	18.88	
	260°	20.38	17.99	15.32	20.43	14.82	18.90	
	270°	20.40	17.95	15.50	20.33	14.86	18.82	
	280°	20.33	17.84	15.31	20.49	15.00	18.95	
	290°	20.36	17.90	15.47	20.48	14.84	18.97	
	300°	20.40	17.86	15.39	20.34	14.91	18.91	
	310°	20.35	17.90	15.37	20.41	14.97	18.97	
	320°	20.39	17.98	15.47	20.34	14.93	18.91	
	330°	20.36	17.84	15.47	20.35	14.88	18.95	
340°	20.50	17.96	15.48	20.39	14.92	18.99		
341°	20.33	17.90	15.47	20.37	14.85	18.86		
342°	20.47	17.93	15.33	20.50	14.94	19.00		
343°	20.40	17.99	15.43	20.49	14.90	18.93		
344°	20.35	17.90	15.33	20.31	14.92	18.93		

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Antenna	Operation mode	Lid angle	802.11b	802.11ac(80M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(160M) 5.6G	802.11ac(80M) 5.8G	
WLAN Aux	Stand	344°	20.40	17.85	15.33	20.46	14.90	18.92	
		343°	20.47	17.96	15.38	20.43	14.82	18.99	
		342°	20.38	17.85	15.36	20.33	14.96	18.86	
		341°	20.49	17.85	15.41	20.39	14.91	18.96	
		340°	20.47	17.84	15.50	20.47	14.83	18.90	
		330°	20.34	17.85	15.47	20.47	14.99	18.91	
		320°	20.50	17.82	15.36	20.48	14.81	18.85	
		310°	20.49	17.86	15.48	20.39	14.81	18.83	
		300°	20.43	17.84	15.45	20.36	14.90	18.96	
		290°	20.41	17.91	15.36	20.44	14.82	18.98	
		280°	20.45	17.82	15.31	20.50	14.87	18.88	
		270°	20.40	17.83	15.42	20.40	14.85	18.86	
		260°	20.49	17.83	15.42	20.43	14.91	18.97	
		250°	20.42	18.00	15.50	20.32	14.82	18.87	
		240°	20.48	17.86	15.46	20.47	15.00	18.94	
		230°	20.41	17.96	15.42	20.40	14.92	18.87	
		220°	20.42	17.87	15.47	20.35	14.81	18.83	
		210°	20.40	17.95	15.45	20.45	14.92	18.92	
		205°	20.31	17.93	15.50	20.41	14.83	18.97	
		204°	20.46	17.86	15.45	20.37	14.82	18.83	
		203°	20.33	17.90	15.43	20.46	14.97	18.98	
		202°	20.42	17.97	15.49	20.46	15.00	18.83	
		201°	20.32	17.90	15.50	20.46	14.94	18.99	
		360°	17.46	15.40	15.37	15.32	14.97	15.41	
		350°	17.38	15.49	15.42	15.39	14.96	15.39	
		340°	17.33	15.31	15.36	15.50	14.95	15.40	
		330°	17.49	15.41	15.46	15.33	14.97	15.36	
		320°	17.31	15.38	15.31	15.34	14.84	15.48	
		310°	17.34	15.31	15.41	15.42	14.93	15.35	
		300°	17.35	15.34	15.43	15.39	14.93	15.37	
	290°	17.34	15.50	15.49	15.45	14.97	15.36		
	280°	17.46	15.40	15.45	15.50	14.82	15.47		
	270°	17.32	15.32	15.37	15.43	14.94	15.49		
	260°	17.46	15.36	15.44	15.43	14.97	15.31		
	250°	17.49	15.31	15.50	15.39	14.90	15.32		
	240°	17.40	15.34	15.40	15.49	14.83	15.31		
	230°	17.32	15.42	15.44	15.47	14.94	15.31		
	220°	17.38	15.50	15.44	15.42	14.92	15.45		
	210°	17.46	15.46	15.43	15.45	14.98	15.31		
	200°	17.42	15.34	15.48	15.46	14.82	15.39		
	190°	17.47	15.49	15.42	15.36	14.93	15.50		
	180°	17.43	15.41	15.43	15.40	14.87	15.46		
	170°	17.46	15.47	15.45	15.33	14.95	15.45		
	160°	17.35	15.39	15.50	15.49	14.81	15.46		
	150°	17.34	15.32	15.44	15.47	14.98	15.36		
	140°	17.34	15.47	15.35	15.43	14.81	15.44		
	135°	17.42	15.37	15.46	15.36	14.84	15.38		
	134°	17.49	15.42	15.37	15.50	14.91	15.42		
	133°	17.36	15.50	15.34	15.31	14.94	15.44		
	132°	17.49	15.35	15.33	15.40	14.90	15.43		
	131°	17.32	15.42	15.38	15.49	14.82	15.48		
	130°	17.44	15.42	15.36	15.32	14.99	15.45		
	129°	20.34	17.89	15.38	20.48	14.89	18.93		
	128°	20.42	17.97	15.36	20.45	14.95	18.87		
	127°	20.49	17.97	15.35	20.46	14.93	18.91		
	126°	20.36	17.88	15.43	20.42	14.89	18.99		
	125°	20.39	17.87	15.50	20.35	14.93	18.99		
	120°	20.46	17.82	15.46	20.49	14.89	18.83		
	110°	20.38	17.90	15.46	20.50	14.83	18.81		
	100°	20.34	18.00	15.47	20.45	14.87	18.94		
	90°	20.45	17.85	15.46	20.47	14.87	18.99		
	80°	20.38	17.94	15.45	20.34	14.96	18.92		
	70°	20.49	17.88	15.43	20.31	14.83	18.91		
	60°	20.39	17.92	15.31	20.38	14.87	18.88		
	50°	20.40	17.94	15.41	20.46	14.82	19.00		
	40°	20.42	17.83	15.32	20.38	14.90	18.92		
	39°	20.43	17.85	15.44	20.33	14.96	18.85		
	38°	20.33	18.00	15.48	20.49	14.83	18.95		
	37°	20.43	17.83	15.33	20.40	14.97	18.88		
	36°	20.36	17.85	15.35	20.46	14.95	18.94		
	35°	20.43	17.81	15.45	20.47	14.85	19.00		
	34°	n/a	n/a	n/a	n/a	n/a	n/a		
	33°	n/a	n/a	n/a	n/a	n/a	n/a		
	32°	n/a	n/a	n/a	n/a	n/a	n/a		
	31°	n/a	n/a	n/a	n/a	n/a	n/a		
	30°	n/a	n/a	n/a	n/a	n/a	n/a		
	20°	n/a	n/a	n/a	n/a	n/a	n/a		
	10°	n/a	n/a	n/a	n/a	n/a	n/a		
	0°	n/a	n/a	n/a	n/a	n/a	n/a		
	WLAN Aux	Non-Notebook	360°	17.46	15.40	15.37	15.32	14.97	15.41
			350°	17.38	15.49	15.42	15.39	14.96	15.39
			340°	17.33	15.31	15.36	15.50	14.95	15.40
			330°	17.49	15.41	15.46	15.33	14.97	15.36
			320°	17.31	15.38	15.31	15.34	14.84	15.48
			310°	17.34	15.31	15.41	15.42	14.93	15.35
			300°	17.35	15.34	15.43	15.39	14.93	15.37
			290°	17.34	15.50	15.49	15.45	14.97	15.36
			280°	17.46	15.40	15.45	15.50	14.82	15.47
			270°	17.32	15.32	15.37	15.43	14.94	15.49
	260°	17.46	15.36	15.44	15.43	14.97	15.31		
	250°	17.49	15.31	15.50	15.39	14.90	15.32		
	240°	17.40	15.34	15.40	15.49	14.83	15.31		
	230°	17.32	15.42	15.44	15.47	14.94	15.31		
	220°	17.38	15.50	15.44	15.42	14.92	15.45		
	210°	17.46	15.46	15.43	15.45	14.98	15.31		
	200°	17.42	15.34	15.48	15.46	14.82	15.39		
	190°	17.47	15.49	15.42	15.36	14.93	15.50		
	180°	17.43	15.41	15.43	15.40	14.87	15.46		
	170°	17.46	15.47	15.45	15.33	14.95	15.45		
	160°	17.35	15.39	15.50	15.49	14.81	15.46		
150°	17.34	15.32	15.44	15.47	14.98	15.36			
140°	17.34	15.47	15.35	15.43	14.81	15.44			
135°	17.42	15.37	15.46	15.36	14.84	15.38			
134°	17.49	15.42	15.37	15.50	14.91	15.42			
133°	17.36	15.50	15.34	15.31	14.94	15.44			
132°	17.49	15.35	15.33	15.40	14.90	15.43			
131°	17.32	15.42	15.38	15.49	14.82	15.48			
130°	17.44	15.42	15.36	15.32	14.99	15.45			
129°	20.34	17.89	15.38	20.48	14.89	18.93			
128°	20.42	17.97	15.36	20.45	14.95	18.87			
127°	20.49	17.97	15.35	20.46	14.93	18.91			
126°	20.36	17.88	15.43	20.42	14.89	18.99			
125°	20.39	17.87	15.50	20.35	14.93	18.99			
120°	20.46	17.82	15.46	20.49	14.89	18.83			
110°	20.38	17.90	15.46	20.50	14.83	18.81			
100°	20.34	18.00	15.47	20.45	14.87	18.94			
90°	20.45	17.85	15.46	20.47	14.87	18.99			
80°	20.38	17.94	15.45	20.34	14.96	18.92			
70°	20.49	17.88	15.43	20.31	14.83	18.91			
60°	20.39	17.92	15.31	20.38	14.87	18.88			
50°	20.40	17.94	15.41	20.46	14.82	19.00			
40°	20.42	17.83	15.32	20.38	14.90	18.92			
39°	20.43	17.85	15.44	20.33	14.96	18.85			
38°	20.33	18.00	15.48	20.49	14.83	18.95			
37°	20.43	17.83	15.33	20.40	14.97	18.88			
36°	20.36	17.85	15.35	20.46	14.95	18.94			
35°	20.43	17.81	15.45	20.47	14.85	19.00			
34°	n/a	n/a	n/a	n/a	n/a	n/a			
33°	n/a	n/a	n/a	n/a	n/a	n/a			
32°	n/a	n/a	n/a	n/a	n/a	n/a			
31°	n/a	n/a	n/a	n/a	n/a	n/a			
30°	n/a	n/a	n/a	n/a	n/a	n/a			
20°	n/a	n/a	n/a	n/a	n/a	n/a			
10°	n/a	n/a	n/a	n/a	n/a	n/a			
0°	n/a	n/a	n/a	n/a	n/a	n/a			

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Antenna	Operation mode	Lid angle	WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7
WWAN	Lid close	0°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		35°	23.36	23.14	23.32	22.88	23.59	23.95	23.29
		36°	23.44	23.17	23.34	22.79	23.54	23.98	23.47
		37°	23.36	23.28	23.36	22.75	23.46	23.80	23.48
		38°	23.31	23.16	23.44	22.85	23.52	23.91	23.31
		39°	23.41	23.27	23.50	22.84	23.56	23.98	23.33
		40°	23.37	23.21	23.41	22.78	23.65	23.89	23.40
	Notebook	50°	23.40	23.23	23.41	22.83	23.55	23.98	23.29
		60°	23.41	23.19	23.44	22.79	23.46	23.83	23.40
		70°	23.35	23.23	23.38	22.90	23.58	23.89	23.40
		80°	23.34	23.12	23.38	22.87	23.59	23.96	23.48
		90°	23.33	23.18	23.46	22.92	23.49	23.96	23.33
		100°	23.49	23.18	23.47	22.78	23.53	23.87	23.34
		110°	23.35	23.11	23.46	22.74	23.54	23.87	23.45
		120°	23.37	23.13	23.34	22.87	23.59	23.92	23.35
		125°	23.35	23.13	23.45	22.86	23.65	23.94	23.44
		126°	23.31	23.29	23.36	22.86	23.59	23.89	23.31
		127°	23.31	23.21	23.45	22.88	23.60	23.85	23.39
		128°	23.44	23.26	23.34	22.81	23.64	23.89	23.39
		129°	23.33	23.15	23.44	22.87	23.62	23.82	23.35
		130°	18.89	19.27	20.77	19.32	20.39	20.73	19.34
	Non-Notebook	131°	18.88	19.43	20.87	19.28	20.27	20.88	19.28
		132°	18.78	19.43	20.95	19.42	20.23	20.82	19.34
		133°	18.78	19.29	20.84	19.32	20.35	20.75	19.27
		134°	18.80	19.38	20.84	19.29	20.25	20.73	19.39
		135°	18.84	19.30	20.92	19.40	20.24	20.73	19.21
		140°	18.82	19.29	20.85	19.40	20.29	20.85	19.31
		150°	18.77	19.39	20.83	19.45	20.40	20.87	19.33
		160°	18.78	19.40	20.87	19.30	20.24	20.88	19.36
		170°	18.83	19.42	20.84	19.34	20.33	20.72	19.22
		180°	18.84	19.35	20.86	19.41	20.21	20.80	19.35
		190°	18.94	19.35	20.78	19.42	20.22	20.81	19.40
		200°	18.95	19.31	20.90	19.31	20.27	20.71	19.33
		210°	18.86	19.43	20.90	19.27	20.26	20.89	19.32
		220°	18.78	19.26	20.83	19.26	20.35	20.78	19.28
		230°	18.95	19.34	20.84	19.42	20.40	20.79	19.28
		240°	18.87	19.32	20.81	19.44	20.35	20.79	19.40
		250°	18.94	19.29	20.83	19.34	20.27	20.80	19.24
		260°	18.84	19.43	20.90	19.45	20.40	20.77	19.21
		270°	18.84	19.34	20.93	19.41	20.34	20.75	19.38
		Stand	280°	18.79	19.35	20.77	19.43	20.28	20.83
	290°		18.82	19.26	20.77	19.37	20.31	20.77	19.31
	300°		18.81	19.26	20.82	19.27	20.39	20.87	19.25
	310°		18.77	19.26	20.90	19.27	20.22	20.89	19.33
	320°		18.93	19.38	20.81	19.33	20.25	20.84	19.29
	330°		18.86	19.32	20.93	19.42	20.32	20.90	19.38
	340°		18.83	19.39	20.91	19.36	20.22	20.75	19.30
	350°		18.88	19.43	20.81	19.36	20.32	20.89	19.25
	360°		18.78	19.44	20.88	19.33	20.35	20.78	19.25
	201°		23.31	23.12	23.39	22.80	23.48	23.95	23.35
	202°		23.32	23.19	23.35	22.77	23.55	23.95	23.47
	203°		23.32	23.18	23.44	22.92	23.46	23.82	23.45
	204°		23.36	23.20	23.50	22.79	23.50	23.79	23.32
	205°		23.45	23.24	23.37	22.91	23.52	23.91	23.39
	210°		23.47	23.11	23.45	22.85	23.51	23.94	23.43
	220°		23.37	23.29	23.44	22.86	23.56	23.92	23.34
	230°		23.37	23.16	23.50	22.75	23.61	23.94	23.33
	240°		23.43	23.12	23.37	22.80	23.49	23.92	23.34
	250°		23.34	23.13	23.39	22.84	23.48	23.92	23.43
	260°		23.31	23.13	23.43	22.82	23.46	23.81	23.33
	270°		23.39	23.14	23.39	22.81	23.47	23.91	23.30
	280°		23.44	23.17	23.45	22.86	23.64	23.85	23.45
	290°		23.47	23.16	23.32	22.93	23.57	23.85	23.36
	300°		23.36	23.15	23.45	22.92	23.58	23.87	23.48
	310°		23.38	23.13	23.33	22.79	23.51	23.98	23.32
320°	23.48		23.26	23.46	22.79	23.54	23.81	23.36	
330°	23.38		23.16	23.48	22.92	23.61	23.80	23.45	
340°	23.47		23.12	23.46	22.83	23.65	23.92	23.31	
341°	23.42	23.30	23.48	22.82	23.57	23.98	23.47		
342°	23.42	23.14	23.45	22.88	23.65	23.80	23.32		
343°	23.31	23.17	23.38	22.78	23.56	23.86	23.33		
344°	23.35	23.25	23.48	22.86	23.54	23.86	23.39		

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Antenna	Operation mode	Lid angle	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 26	LTE Band 30	LTE Band 38	LTE Band 41	LTE Band 66
WWAN	Lid close	0°	n/a							
		10°	n/a							
		20°	n/a							
		30°	n/a							
		31°	n/a							
		32°	n/a							
		33°	n/a							
		34°	n/a							
		35°	22.75	23.38	22.81	23.01	19.73	23.65	23.30	23.60
		36°	22.61	23.22	22.99	22.97	19.82	23.62	23.28	23.60
	37°	22.69	23.33	22.94	22.94	19.74	23.61	23.12	23.63	
	38°	22.80	23.32	22.93	22.91	19.73	23.53	23.15	23.53	
	39°	22.69	23.25	22.99	23.09	19.89	23.63	23.22	23.61	
	40°	22.68	23.22	22.87	22.95	19.87	23.53	23.17	23.66	
	50°	22.75	23.38	23.00	22.96	19.75	23.57	23.20	23.60	
	60°	22.70	23.37	22.87	23.06	19.86	23.60	23.18	23.61	
	70°	22.75	23.24	22.87	22.97	19.85	23.63	23.27	23.66	
	80°	22.67	23.38	22.83	23.01	19.80	23.58	23.18	23.51	
	90°	22.74	23.38	22.86	22.97	19.88	23.55	23.16	23.65	
	100°	22.73	23.21	22.97	22.92	19.83	23.52	23.15	23.65	
	110°	22.67	23.32	22.91	23.00	19.76	23.54	23.13	23.69	
	120°	22.63	23.24	22.96	23.01	19.89	23.47	23.14	23.70	
	125°	22.66	23.25	22.96	22.99	19.74	23.46	23.27	23.54	
	126°	22.67	23.37	22.93	23.10	19.84	23.55	23.29	23.53	
	127°	22.64	23.26	22.95	22.98	19.78	23.46	23.23	23.57	
	128°	22.61	23.40	22.88	22.98	19.80	23.65	23.26	23.51	
	129°	22.70	23.32	22.99	22.99	19.88	23.64	23.20	23.51	
	130°	20.79	20.88	20.69	20.71	19.86	23.48	23.13	19.35	
	131°	20.78	20.76	20.69	20.73	19.78	23.65	23.11	19.31	
	132°	20.74	20.86	20.73	20.76	19.73	23.59	23.17	19.40	
	133°	20.90	20.90	20.73	20.81	19.74	23.62	23.28	19.28	
	134°	20.82	20.71	20.63	20.88	19.88	23.50	23.26	19.30	
	135°	20.77	20.79	20.73	20.85	19.73	23.49	23.29	19.28	
	140°	20.74	20.89	20.66	20.82	19.84	23.63	23.11	19.26	
	150°	20.72	20.71	20.71	20.84	19.72	23.64	23.28	19.40	
	160°	20.89	20.90	20.63	20.79	19.89	23.56	23.20	19.37	
	170°	20.76	20.82	20.62	20.89	19.75	23.62	23.14	19.23	
	180°	20.74	20.84	20.73	20.85	19.77	23.53	23.24	19.35	
	190°	20.83	20.78	20.78	20.77	19.82	23.54	23.25	19.38	
	200°	20.78	20.80	20.73	20.84	19.80	23.50	23.14	19.40	
	210°	20.87	20.83	20.69	20.83	19.85	23.50	23.24	19.28	
	220°	20.85	20.76	20.61	20.78	19.84	23.56	23.11	19.23	
	230°	20.86	20.71	20.77	20.82	19.81	23.58	23.16	19.29	
	240°	20.80	20.72	20.68	20.86	19.81	23.46	23.16	19.28	
	250°	20.79	20.89	20.66	20.85	19.77	23.64	23.22	19.21	
	260°	20.77	20.87	20.67	20.76	19.88	23.49	23.15	19.23	
	270°	20.82	20.81	20.78	20.85	19.83	23.47	23.17	19.22	
	280°	20.73	20.74	20.66	20.83	19.88	23.55	23.21	19.25	
	290°	20.83	20.85	20.74	20.79	19.73	23.48	23.30	19.27	
	300°	20.73	20.84	20.73	20.76	19.90	23.48	23.18	19.32	
	310°	20.78	20.87	20.72	20.80	19.78	23.61	23.13	19.38	
	320°	20.76	20.71	20.64	20.78	19.75	23.61	23.12	19.27	
	330°	20.76	20.78	20.79	20.90	19.78	23.51	23.22	19.25	
	340°	20.80	20.83	20.71	20.89	19.76	23.64	23.12	19.35	
	350°	20.88	20.84	20.75	20.85	19.79	23.53	23.23	19.25	
	360°	20.77	20.77	20.66	20.72	19.75	23.58	23.21	19.34	
	201°	22.74	23.36	22.87	22.92	19.85	23.59	23.17	23.60	
	202°	22.69	23.33	22.96	22.93	19.88	23.50	23.28	23.54	
	203°	22.64	23.21	22.82	23.00	19.85	23.51	23.11	23.67	
	204°	22.65	23.26	22.94	22.93	19.83	23.48	23.11	23.67	
	205°	22.75	23.35	22.95	23.04	19.83	23.60	23.12	23.61	
	210°	22.62	23.34	22.96	22.96	19.74	23.46	23.25	23.70	
	220°	22.67	23.37	22.83	23.01	19.85	23.52	23.25	23.52	
	230°	22.66	23.28	22.99	22.94	19.87	23.58	23.26	23.54	
	240°	22.80	23.33	22.98	23.01	19.89	23.59	23.14	23.55	
	250°	22.64	23.24	23.00	22.98	19.87	23.53	23.23	23.68	
	260°	22.72	23.26	22.91	23.03	19.78	23.50	23.28	23.70	
	270°	22.67	23.37	22.98	23.09	19.72	23.56	23.22	23.67	
	280°	22.80	23.24	22.90	22.94	19.85	23.54	23.17	23.58	
	290°	22.80	23.26	22.83	22.99	19.77	23.46	23.26	23.54	
300°	22.67	23.34	22.95	23.07	19.85	23.64	23.23	23.52		
310°	22.76	23.35	22.88	23.06	19.71	23.59	23.19	23.61		
320°	22.63	23.37	22.88	22.93	19.72	23.65	23.18	23.55		
330°	22.68	23.22	22.97	23.01	19.87	23.56	23.17	23.58		
340°	22.78	23.22	22.83	23.04	19.71	23.52	23.23	23.66		
341°	22.62	23.37	22.93	22.99	19.79	23.56	23.15	23.59		
342°	22.63	23.35	22.82	22.95	19.85	23.59	23.15	23.60		
343°	22.75	23.22	22.81	23.00	19.75	23.52	23.23	23.59		
344°	22.77	23.37	22.98	23.04	19.86	23.56	23.23	23.66		

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Antenna	Operation mode	Lid angle	WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	
WWAN	Stand	344°	23.47	23.24	23.43	22.77	23.50	23.88	23.34	
		343°	23.41	23.25	23.46	22.89	23.51	23.81	23.37	
		342°	23.44	23.12	23.38	22.91	23.60	23.84	23.32	
		341°	23.43	23.28	23.35	22.81	23.62	23.88	23.34	
		340°	23.46	23.19	23.47	22.91	23.63	23.80	23.44	
		330°	23.35	23.15	23.50	22.90	23.60	23.80	23.32	
		320°	23.36	23.28	23.41	22.75	23.64	23.79	23.31	
		310°	23.46	23.27	23.34	22.91	23.51	23.83	23.43	
		300°	23.45	23.17	23.50	22.86	23.59	23.88	23.38	
		290°	23.38	23.27	23.43	22.77	23.46	23.88	23.46	
		280°	23.42	23.11	23.43	22.84	23.63	23.95	23.46	
		270°	23.49	23.29	23.33	22.93	23.64	23.95	23.41	
		260°	23.46	23.18	23.37	22.76	23.61	23.98	23.46	
		250°	23.33	23.25	23.33	22.79	23.55	23.96	23.42	
		240°	23.49	23.23	23.38	22.88	23.56	23.82	23.41	
		230°	23.31	23.29	23.31	22.89	23.61	23.97	23.44	
		220°	23.48	23.15	23.32	22.93	23.64	23.97	23.46	
		210°	23.34	23.13	23.45	22.92	23.46	23.85	23.44	
		205°	23.43	23.17	23.43	22.88	23.52	23.79	23.46	
		204°	23.50	23.21	23.37	22.83	23.65	23.84	23.43	
		203°	23.43	23.16	23.48	22.91	23.65	23.97	23.30	
	202°	23.48	23.20	23.44	22.74	23.60	23.93	23.31		
	201°	23.35	23.26	23.42	22.74	23.64	23.95	23.44		
	Non-Notebook	360°	18.80	19.26	20.88	19.40	20.40	20.90	19.38	
		350°	18.79	19.25	20.90	19.37	20.32	20.81	19.33	
		340°	18.91	19.30	20.91	19.36	20.34	20.74	19.31	
		330°	18.80	19.29	20.80	19.27	20.27	20.82	19.21	
		320°	18.89	19.43	20.86	19.37	20.25	20.74	19.37	
		310°	18.92	19.37	20.87	19.29	20.29	20.76	19.25	
		300°	18.86	19.38	20.82	19.28	20.38	20.90	19.27	
		290°	18.80	19.40	20.90	19.28	20.35	20.89	19.26	
		280°	18.91	19.38	20.92	19.31	20.40	20.78	19.21	
		270°	18.89	19.37	20.94	19.43	20.21	20.78	19.40	
		260°	18.91	19.29	20.88	19.36	20.40	20.85	19.36	
		250°	18.77	19.38	20.95	19.29	20.26	20.79	19.32	
		240°	18.89	19.25	20.94	19.39	20.38	20.88	19.28	
		230°	18.85	19.39	20.96	19.30	20.37	20.78	19.23	
		220°	18.80	19.26	20.81	19.26	20.40	20.87	19.29	
		210°	18.94	19.39	20.78	19.28	20.36	20.74	19.31	
		200°	18.90	19.34	20.77	19.33	20.32	20.79	19.21	
		190°	18.82	19.42	20.89	19.41	20.30	20.71	19.32	
		180°	18.87	19.29	20.87	19.42	20.21	20.88	19.25	
		170°	18.77	19.34	20.78	19.28	20.35	20.85	19.21	
		160°	18.94	19.39	20.80	19.32	20.23	20.74	19.23	
		150°	18.83	19.44	20.88	19.36	20.28	20.82	19.36	
		140°	18.94	19.42	20.88	19.29	20.35	20.76	19.38	
		135°	18.93	19.27	20.92	19.37	20.38	20.83	19.22	
		134°	18.91	19.28	20.79	19.30	20.33	20.85	19.30	
		133°	18.94	19.27	20.95	19.32	20.25	20.76	19.25	
		132°	18.88	19.27	20.96	19.39	20.32	20.74	19.37	
		131°	18.79	19.36	20.77	19.39	20.24	20.87	19.38	
		130°	18.84	19.26	20.91	19.27	20.31	20.82	19.27	
		Notebook	129°	23.33	23.21	23.37	22.86	23.60	23.91	23.44
			128°	23.39	23.20	23.39	22.93	23.56	23.84	23.39
			127°	23.49	23.25	23.43	22.83	23.49	23.93	23.47
			126°	23.50	23.15	23.41	22.83	23.63	23.93	23.34
			125°	23.47	23.30	23.32	22.93	23.60	23.92	23.34
			120°	23.48	23.18	23.47	22.75	23.50	23.95	23.42
			110°	23.32	23.30	23.45	22.89	23.51	23.96	23.29
	100°		23.35	23.23	23.47	22.86	23.65	23.97	23.37	
	90°		23.43	23.13	23.35	22.75	23.46	23.88	23.35	
	80°		23.45	23.29	23.33	22.92	23.56	23.98	23.32	
	70°		23.39	23.29	23.49	22.84	23.55	23.85	23.48	
	60°		23.37	23.21	23.42	22.89	23.51	23.91	23.39	
	50°		23.38	23.26	23.48	22.93	23.60	23.80	23.48	
	40°		23.49	23.24	23.33	22.78	23.51	23.82	23.42	
	39°		23.40	23.29	23.46	22.92	23.59	23.86	23.38	
	38°		23.32	23.11	23.50	22.74	23.58	23.95	23.48	
	37°		23.37	23.12	23.49	22.88	23.63	23.91	23.36	
	36°		23.47	23.28	23.32	22.77	23.56	23.84	23.43	
	35°	23.36	23.16	23.44	22.81	23.55	23.85	23.38		
	Lid close	34°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
33°		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
32°		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
31°		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
30°		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
20°		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
10°	n/a	n/a	n/a	n/a	n/a	n/a	n/a			
0°	n/a	n/a	n/a	n/a	n/a	n/a	n/a			

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Antenna	Operation mode	Lid angle	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 26	LTE Band 30	LTE Band 38	LTE Band 41	LTE Band 66
WWAN	Stand	344°	22.69	23.35	22.82	22.98	19.90	23.49	23.30	23.67
		343°	22.69	23.24	22.92	23.03	19.83	23.50	23.30	23.61
		342°	22.64	23.39	22.93	23.06	19.83	23.53	23.25	23.62
		341°	22.80	23.40	22.84	23.08	19.74	23.46	23.14	23.55
		340°	22.77	23.26	22.89	22.94	19.75	23.51	23.11	23.64
		330°	22.74	23.26	23.00	23.06	19.71	23.61	23.13	23.54
		320°	22.73	23.23	23.00	23.04	19.82	23.55	23.16	23.61
		310°	22.69	23.24	22.89	23.09	19.81	23.57	23.25	23.65
		300°	22.72	23.36	22.89	23.09	19.89	23.46	23.24	23.51
		290°	22.74	23.34	22.99	23.03	19.82	23.58	23.26	23.54
		280°	22.75	23.21	22.82	22.97	19.76	23.63	23.24	23.68
		270°	22.71	23.38	22.91	22.96	19.86	23.47	23.14	23.56
		260°	22.65	23.39	22.90	23.10	19.82	23.55	23.12	23.53
		250°	22.77	23.24	22.85	22.96	19.78	23.59	23.19	23.70
		240°	22.66	23.31	22.82	23.00	19.88	23.61	23.18	23.60
		230°	22.72	23.24	22.81	22.99	19.72	23.56	23.25	23.62
		220°	22.80	23.29	22.83	23.02	19.86	23.57	23.19	23.57
		210°	22.75	23.25	22.90	23.06	19.75	23.46	23.25	23.57
		205°	22.62	23.40	22.82	22.91	19.76	23.47	23.13	23.56
		204°	22.62	23.25	22.96	23.06	19.75	23.56	23.24	23.54
		203°	22.69	23.40	22.97	22.95	19.88	23.63	23.15	23.56
		202°	22.62	23.36	22.96	23.02	19.74	23.61	23.27	23.52
		201°	22.67	23.23	23.00	22.99	19.88	23.51	23.26	23.54
		360°	20.86	20.90	20.69	20.83	19.81	23.48	23.19	19.28
		350°	20.90	20.90	20.62	20.74	19.77	23.62	23.14	19.24
		340°	20.87	20.88	20.71	20.74	19.79	23.57	23.17	19.24
		330°	20.85	20.72	20.68	20.88	19.73	23.54	23.18	19.34
		320°	20.75	20.83	20.72	20.85	19.79	23.57	23.14	19.31
		310°	20.77	20.75	20.79	20.78	19.75	23.51	23.29	19.32
		300°	20.83	20.85	20.69	20.86	19.82	23.55	23.29	19.22
	290°	20.85	20.74	20.61	20.90	19.85	23.48	23.19	19.24	
	280°	20.85	20.80	20.79	20.76	19.86	23.49	23.29	19.21	
	270°	20.85	20.77	20.75	20.80	19.74	23.47	23.15	19.22	
	260°	20.77	20.84	20.63	20.82	19.87	23.48	23.22	19.25	
	250°	20.87	20.86	20.64	20.82	19.81	23.65	23.23	19.34	
	240°	20.87	20.86	20.64	20.90	19.75	23.47	23.21	19.33	
	230°	20.86	20.72	20.70	20.82	19.90	23.59	23.17	19.29	
	220°	20.76	20.80	20.71	20.86	19.90	23.53	23.11	19.39	
	210°	20.72	20.79	20.74	20.81	19.89	23.52	23.16	19.36	
	200°	20.79	20.73	20.75	20.83	19.76	23.49	23.30	19.21	
	190°	20.75	20.82	20.75	20.83	19.75	23.64	23.19	19.40	
	180°	20.73	20.84	20.66	20.73	19.76	23.54	23.22	19.40	
	170°	20.86	20.77	20.80	20.88	19.90	23.49	23.22	19.25	
	160°	20.77	20.86	20.79	20.89	19.90	23.51	23.12	19.33	
	150°	20.81	20.87	20.78	20.79	19.90	23.49	23.25	19.32	
	140°	20.84	20.75	20.75	20.78	19.89	23.53	23.22	19.27	
	135°	20.76	20.79	20.63	20.71	19.80	23.55	23.19	19.33	
	134°	20.77	20.81	20.68	20.87	19.81	23.50	23.22	19.23	
	133°	20.90	20.76	20.80	20.80	19.73	23.63	23.29	19.28	
	132°	20.73	20.87	20.77	20.89	19.75	23.54	23.30	19.26	
	131°	20.85	20.80	20.74	20.82	19.86	23.48	23.28	19.27	
	130°	20.77	20.72	20.72	20.77	19.76	23.54	23.15	19.21	
	129°	22.77	23.28	23.00	23.03	19.87	23.52	23.16	23.55	
	128°	22.76	23.26	22.84	22.97	19.84	23.47	23.20	23.69	
	127°	22.61	23.35	22.87	23.03	19.73	23.64	23.18	23.53	
	126°	22.74	23.26	22.81	23.03	19.86	23.48	23.21	23.66	
	125°	22.64	23.23	22.83	23.04	19.90	23.54	23.20	23.55	
	120°	22.74	23.25	23.00	22.91	19.83	23.48	23.11	23.62	
	110°	22.78	23.28	22.98	23.02	19.83	23.57	23.24	23.67	
	100°	22.79	23.25	22.95	22.92	19.80	23.47	23.20	23.56	
	90°	22.65	23.22	22.93	22.99	19.78	23.48	23.29	23.62	
	80°	22.75	23.36	22.81	23.06	19.72	23.49	23.14	23.69	
	70°	22.76	23.37	22.82	23.08	19.73	23.46	23.27	23.67	
	60°	22.64	23.25	22.85	22.91	19.75	23.47	23.20	23.52	
	50°	22.79	23.34	22.86	23.01	19.79	23.49	23.30	23.58	
	40°	22.73	23.23	22.95	22.93	19.76	23.59	23.27	23.61	
	39°	22.68	23.27	22.94	22.95	19.85	23.52	23.24	23.66	
	38°	22.74	23.32	22.81	23.08	19.73	23.63	23.18	23.70	
	37°	22.79	23.34	22.83	23.08	19.77	23.62	23.14	23.51	
	36°	22.63	23.21	22.85	22.96	19.83	23.58	23.14	23.55	
	35°	22.66	23.34	22.89	23.00	19.79	23.53	23.24	23.52	
	34°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	33°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	32°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	31°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	20°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	10°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	0°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

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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  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.

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

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

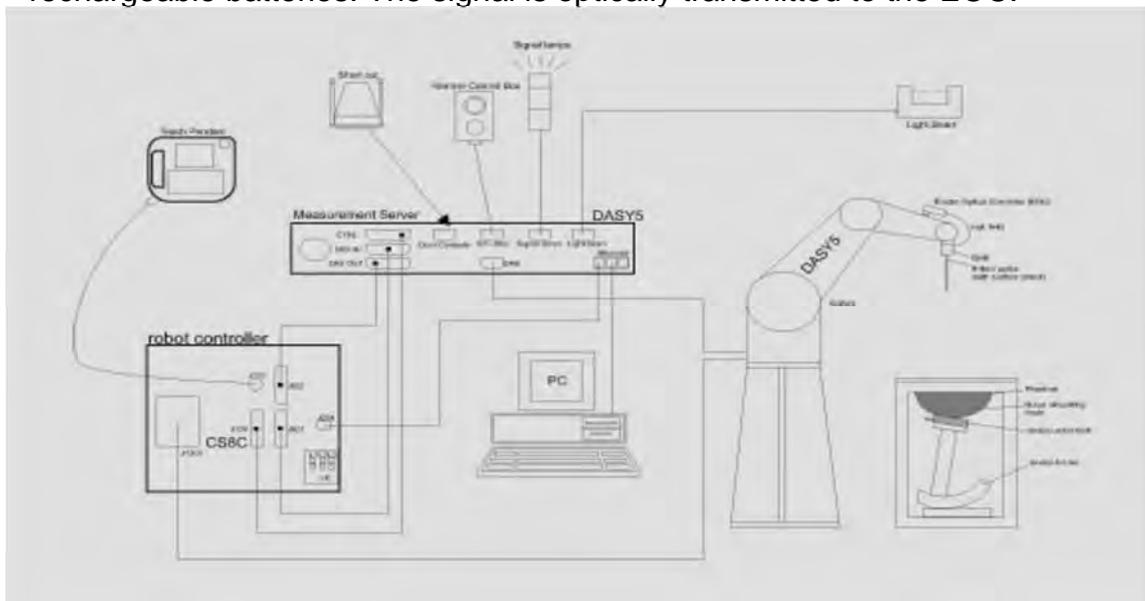


Fig. a The block diagram of SAR system

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

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## 1.8 System Components

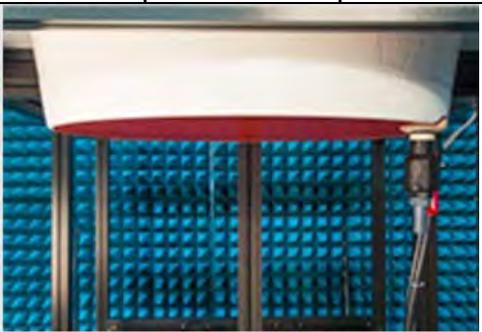
### EX3DV4 E-Field Probe

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 750/835/1750/1900/2300/2450/2600/ 5200/5300/5600/5800 MHz 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	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

### DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	 <p style="text-align: center;">Device Holder</p>
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### 1.9 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 +/- 10% from the target SAR values. These tests were done at 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was  $\geq 15 \text{ cm} \pm 5 \text{ mm}$  (frequency  $\leq 3 \text{ GHz}$ ) or  $\geq 10 \text{ cm} \pm 5 \text{ mm}$  (frequency  $> 3 \text{ GHz}$ ) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

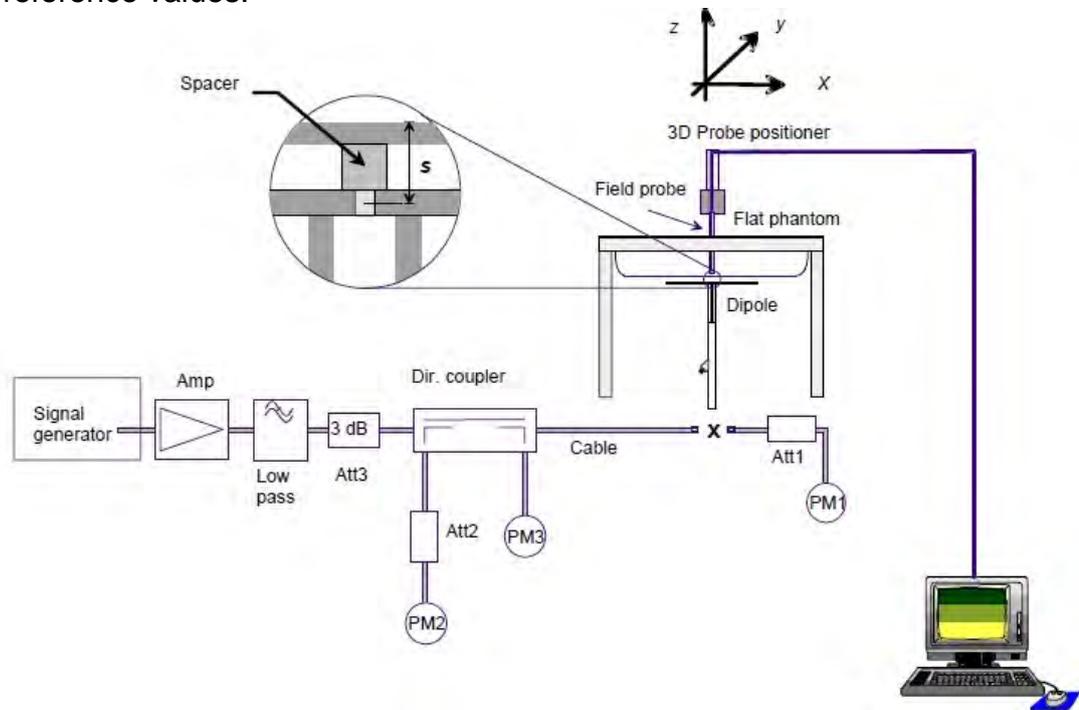


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V3	1015	750	Body	8.62	2.19	8.76	1.62%	Jan. 18, 2019
D835V2	4d063	835	Body	9.58	2.42	9.68	1.04%	Jan. 19, 2019
D1750V2	1008	1750	Body	37	9.02	36.08	-2.49%	Jan. 21, 2019
D1900V2	5d173	1900	Body	40.9	10.0	40.00	-2.20%	Jan. 22, 2019
D2300V2	1023	2300	Body	47.7	11.9	47.60	-0.21%	Jan. 23, 2019
D2450V2	727	2450	Body	50.8	12.4	49.60	-2.36%	Jan. 04, 2019
				50.8	13.1	52.40	3.15%	Jan. 10, 2019
D2600V2	1058	2600	Body	54.4	13.8	55.20	1.47%	Jan. 24, 2019

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5200	Body	72.8	7.15	71.50	-1.79%	Jan. 04, 2019
				72.8	7.14	71.40	-1.92%	Jan. 10, 2019
		5300	Body	76.1	7.39	73.90	-2.89%	Jan. 07, 2019
				76.1	7.6	76.00	-0.13%	Jan. 11, 2019
		5600	Body	79.6	8.04	80.40	1.01%	Jan. 08, 2019
				79.6	8.09	80.90	1.63%	Jan. 12, 2019
		5800	Body	75.9	7.14	71.40	-5.93%	Jan. 09, 2019
				75.9	7.21	72.10	-5.01%	Jan. 14, 2019

Table 1. Results of system validation

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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 Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

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

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

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$
Body	Jan, 04. 2019	2402.00	52.764	1.904	54.114	1.912	-2.56%	-0.42%
		2412.00	52.751	1.914	54.084	1.928	-2.53%	-0.73%
		2417.00	52.744	1.918	54.075	1.935	-2.52%	-0.89%
		2437.00	52.717	1.938	53.971	1.961	-2.38%	-1.19%
		2441.00	52.712	1.941	53.969	1.962	-2.38%	-1.08%
		2450.00	52.700	1.950	53.962	1.981	-2.39%	-1.59%
		2457.00	52.691	1.960	53.929	1.984	-2.35%	-1.22%
		2462.00	52.685	1.967	53.904	1.990	-2.31%	-1.17%
	2480.00	52.662	1.993	53.877	2.012	-2.31%	-0.95%	
	Jan, 04. 2019	5180.00	49.041	5.276	49.429	5.128	-0.79%	2.81%
		5190.00	49.028	5.288	49.403	5.141	-0.76%	2.78%
		5200.00	49.014	5.299	49.300	5.162	-0.58%	2.59%
		5210.00	49.001	5.311	49.296	5.177	-0.60%	2.52%
		5220.00	48.987	5.323	49.285	5.186	-0.61%	2.57%
		5230.00	48.974	5.334	49.221	5.203	-0.50%	2.46%
	Jan, 07. 2019	5240.00	48.960	5.346	49.177	5.216	-0.44%	2.43%
		5260.00	48.933	5.369	49.103	5.260	-0.35%	2.03%
		5270.00	48.919	5.381	49.074	5.287	-0.32%	1.75%
		5280.00	48.906	5.393	49.069	5.294	-0.33%	1.84%
		5290.00	48.892	5.404	49.027	5.324	-0.28%	1.48%
		5300.00	48.879	5.416	49.036	5.329	-0.32%	1.61%
	Jan, 08. 2019	5310.00	48.865	5.428	48.963	5.333	-0.20%	1.75%
		5320.00	48.851	5.439	48.941	5.360	-0.18%	1.45%
		5510.00	48.594	5.661	48.328	5.659	0.55%	0.04%
		5520.00	48.580	5.673	48.307	5.677	0.56%	-0.07%
		5530.00	48.566	5.685	48.260	5.695	0.63%	-0.18%
		5550.00	48.539	5.708	48.147	5.731	0.81%	-0.40%
		5590.00	48.485	5.755	48.076	5.811	0.84%	-0.97%
		5600.00	48.471	5.766	48.071	5.814	0.83%	-0.83%
	Jan, 09. 2019	5610.00	48.458	5.778	48.049	5.824	0.84%	-0.80%
		5670.00	48.376	5.848	47.811	5.930	1.17%	-1.40%
		5690.00	48.349	5.872	47.754	5.979	1.23%	-1.82%
5745.00		48.275	5.936	47.620	6.030	1.36%	-1.58%	
5755.00		48.261	5.947	47.582	6.050	1.41%	-1.73%	
Jan, 09. 2019	5775.00	48.234	5.971	47.459	6.100	1.61%	-2.16%	
	5795.00	48.207	5.994	47.432	6.141	1.61%	-2.45%	
	5800.00	48.200	6.000	47.430	6.143	1.60%	-2.38%	

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Body	Jan, 10. 2019	2402.00	52.764	1.904	54.114	1.913	-2.56%	-0.47%
		2412.00	52.751	1.914	54.084	1.928	-2.53%	-0.73%
		2417.00	52.744	1.918	54.076	1.935	-2.53%	-0.89%
		2437.00	52.717	1.938	53.971	1.961	-2.38%	-1.19%
		2441.00	52.712	1.941	53.941	1.962	-2.33%	-1.08%
		2450.00	52.700	1.950	53.937	1.981	-2.35%	-1.59%
		2457.00	52.691	1.960	53.929	1.984	-2.35%	-1.22%
		2462.00	52.685	1.967	53.904	1.991	-2.31%	-1.22%
	2480.00	52.662	1.993	53.877	2.012	-2.31%	-0.95%	
	Jan, 10. 2019	5180.00	49.041	5.276	49.444	5.151	-0.82%	2.37%
		5190.00	49.028	5.288	49.391	5.155	-0.74%	2.52%
		5200.00	49.014	5.299	49.299	5.164	-0.58%	2.55%
		5210.00	49.001	5.311	49.292	5.176	-0.59%	2.54%
		5220.00	48.987	5.323	49.234	5.189	-0.50%	2.52%
		5230.00	48.974	5.334	49.197	5.217	-0.46%	2.19%
	Jan, 11. 2019	5240.00	48.960	5.346	49.178	5.227	-0.45%	2.23%
		5260.00	48.933	5.369	49.092	5.272	-0.32%	1.81%
		5270.00	48.919	5.381	49.075	5.291	-0.32%	1.67%
		5280.00	48.906	5.393	49.050	5.299	-0.29%	1.74%
		5290.00	48.892	5.404	49.031	5.323	-0.28%	1.50%
		5300.00	48.879	5.416	49.013	5.329	-0.27%	1.61%
	Jan, 12. 2019	5310.00	48.865	5.428	48.958	5.337	-0.19%	1.68%
		5320.00	48.851	5.439	48.923	5.367	-0.15%	1.32%
		5510.00	48.594	5.661	48.309	5.664	0.59%	-0.05%
		5520.00	48.580	5.673	48.295	5.682	0.59%	-0.16%
		5530.00	48.566	5.685	48.223	5.695	0.71%	-0.18%
		5550.00	48.539	5.708	48.136	5.728	0.83%	-0.35%
		5590.00	48.485	5.755	48.065	5.806	0.87%	-0.89%
		5600.00	48.471	5.766	48.035	5.824	0.90%	-1.01%
	Jan, 14. 2019	5610.00	48.458	5.778	48.030	5.830	0.88%	-0.90%
		5670.00	48.376	5.848	47.810	5.934	1.17%	-1.47%
		5690.00	48.349	5.872	47.735	5.985	1.27%	-1.92%
		5745.00	48.275	5.936	47.600	6.065	1.40%	-2.17%
		5755.00	48.261	5.947	47.550	6.078	1.47%	-2.20%
	5775.00	48.234	5.971	47.470	6.116	1.58%	-2.43%	
5795.00	48.207	5.994	47.451	6.144	1.57%	-2.50%		
5800.00	48.200	6.000	47.438	6.153	1.58%	-2.55%		

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Body	Jan, 18. 2019	704.00	55.710	0.960	57.958	0.926	-4.03%	3.52%
		707.50	55.697	0.960	57.943	0.928	-4.03%	3.34%
		709.00	55.691	0.960	57.874	0.932	-3.92%	2.94%
		710.00	55.687	0.960	57.868	0.933	-3.92%	2.84%
		711.00	55.683	0.960	57.736	0.934	-3.69%	2.74%
		750.00	55.531	0.963	57.515	0.976	-3.57%	-1.31%
		782.00	55.406	0.966	57.284	1.007	-3.39%	-4.26%
		793.00	55.364	0.967	57.031	1.011	-3.01%	-4.58%
	Jan, 19. 2019	821.50	55.242	0.953	57.333	0.978	-3.79%	-2.58%
		826.40	55.226	0.959	57.290	0.986	-3.74%	-2.77%
		829.00	55.218	0.963	57.285	0.988	-3.74%	-2.64%
		831.50	55.211	0.966	57.273	0.993	-3.74%	-2.83%
		835.00	55.200	0.970	57.269	0.996	-3.75%	-2.68%
		836.50	55.195	0.972	57.246	0.997	-3.72%	-2.59%
		836.60	55.195	0.972	57.245	0.998	-3.71%	-2.69%
		841.50	55.180	0.978	57.194	1.002	-3.65%	-2.45%
	Jan, 21. 2019	844.00	55.172	0.981	57.189	1.005	-3.66%	-2.44%
		846.60	55.164	0.984	57.145	1.006	-3.59%	-2.21%
		1712.40	53.531	1.465	51.511	1.395	3.77%	4.76%
		1720.00	53.511	1.469	51.467	1.401	3.82%	4.66%
		1732.40	53.478	1.477	51.457	1.406	3.78%	4.83%
		1732.50	53.478	1.477	51.456	1.407	3.78%	4.76%
		1745.00	53.445	1.485	51.404	1.419	3.82%	4.46%
		1750.00	53.432	1.488	51.393	1.424	3.82%	4.33%
	Jan, 22. 2019	1752.60	53.425	1.490	51.384	1.423	3.82%	4.50%
		1770.00	53.379	1.501	51.336	1.443	3.83%	3.87%
		1852.40	53.300	1.520	51.028	1.525	4.26%	-0.33%
		1860.00	53.300	1.520	50.995	1.537	4.32%	-1.12%
		1880.00	53.300	1.520	50.926	1.552	4.45%	-2.11%
		1882.50	53.300	1.520	50.921	1.558	4.46%	-2.50%
	Jan, 23. 2019	1900.00	53.300	1.520	50.853	1.578	4.59%	-3.82%
		1905.00	53.300	1.520	50.845	1.581	4.61%	-4.01%
		1907.60	53.300	1.520	50.826	1.583	4.64%	-4.14%
	Jan, 24. 2019	2300.00	52.900	1.807	53.586	1.842	-1.30%	-1.96%
		2310.00	52.887	1.816	53.557	1.855	-1.27%	-2.14%
		2506.00	52.629	2.029	52.884	1.943	-0.49%	4.26%
		2510.00	52.624	2.035	52.875	1.950	-0.48%	4.18%
		2535.00	52.592	2.071	52.764	1.987	-0.33%	4.03%
		2549.50	52.573	2.091	52.745	2.005	-0.33%	4.12%
		2560.00	52.560	2.106	52.689	2.018	-0.25%	4.18%
		2580.00	52.535	2.134	52.639	2.042	-0.20%	4.33%
		2593.00	52.518	2.153	52.621	2.059	-0.20%	4.36%
		2595.00	52.515	2.156	52.604	2.061	-0.17%	4.39%
		2600.00	52.509	2.163	52.540	2.073	-0.06%	4.15%
		2610.00	52.496	2.177	52.531	2.079	-0.07%	4.50%
	2636.50	52.463	2.214	52.453	2.118	0.02%	4.36%	
	2680.00	52.407	2.276	52.303	2.175	0.20%	4.45%	

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the body tissue simulating liquid:

Frequency (MHz)	Mode	Ingredient						Total amount
		DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	
750	Body	—	631.68 g	11.72 g	1.2 g	—	600 g	1.0L(Kg)
850	Body	—	631.68 g	11.72 g	1.2 g	—	600 g	1.0L(Kg)
1750	Body	300.67 g	716.56 g	4.0 g	—	—	—	1.0L(Kg)
1900	Body	300.67 g	716.56 g	4.0 g	—	—	—	1.0L(Kg)
2300	Body	301.7ml	698.3ml	—	—	—	—	1.0L(Kg)
2450	Body	301.7ml	698.3ml	—	—	—	—	1.0L(Kg)
2600	Body	301.7ml	698.3ml	—	—	—	—	1.0L(Kg)

Body Simulating Liquids for 5 GHz, Manufactured by SPEAG:

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

Table 3. Recipes for Tissue Simulating Liquid

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## 1.11 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 between the lowest measured plane and the surface. The next step uses 3D

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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.

$$SAR = C \frac{\delta T}{\delta t},$$

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

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

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- 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.
- 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.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ( $\sim 2\%$  for  $c$ ; much better for  $\rho$ ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed  $\pm 5\%$ .
- 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:

- The setup must enable accurate determination of the incident power.
- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small

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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.

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(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 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

#### AWAN

#### WCDMA Band II

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back side	0	9400	1880	19	18.97	0.69%	0.249	0.251	-
	Top side	0	9262	1852.4	19	18.95	1.16%	1.330	1.345	298
	Top side*	0	9262	1852.4	19	18.95	1.16%	1.280	1.295	-
	Top side	0	9400	1880	19	18.97	0.69%	1.260	1.269	-
	Top side	0	9538	1907.6	19	18.86	3.28%	1.070	1.105	-
	Bottom side	0	9400	1880	19	18.97	0.69%	0.025	0.025	-
	Right side	0	9400	1880	19	18.97	0.69%	0.471	0.474	-
Left side	0	9400	1880	19	18.97	0.69%	0.044	0.044	-	

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

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### WCDMA Band IV

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band IV	Back side	0	1513	1752.6	19.5	19.48	0.46%	0.304	0.305	-
	Top side	0	1312	1712.4	19.5	19.28	5.20%	1.130	1.189	-
	Top side	0	1412	1732.4	19.5	19.37	3.04%	1.310	1.350	-
	Top side	0	1513	1752.6	19.5	19.48	0.46%	1.380	1.386	299
	Top side*	0	1513	1752.6	19.5	19.48	0.46%	1.310	1.316	-
	Bottom side	0	1513	1752.6	19.5	19.48	0.46%	0.032	0.032	-
	Right side	0	1513	1752.6	19.5	19.48	0.46%	0.553	0.556	-
	Left side	0	1513	1752.6	19.5	19.48	0.46%	0.047	0.047	-

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

### WCDMA Band V

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band V	Back side	0	4132	826.4	21.0	20.98	0.46%	0.293	0.294	-
	Top side	0	4132	826.4	21.0	20.98	0.46%	1.210	1.216	300
	Top side*	0	4132	826.4	21.0	20.98	0.46%	1.190	1.195	-
	Top side	0	4183	836.6	21	20.92	1.86%	1.160	1.182	-
	Top side	0	4233	846.6	21.0	20.95	1.16%	1.100	1.113	-
	Bottom side	0	4132	826.4	21.0	20.98	0.46%	0.032	0.032	-
	Right side	0	4132	826.4	21.0	20.98	0.46%	0.505	0.507	-
	Left side	0	4132	826.4	21.0	20.98	0.46%	0.043	0.043	-

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

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### LTE FDD Band 2

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 2	20MHz	QPSK	1 RB	0	Back side	0	18700	1860	19.5	19.47	0.69%	0.287	0.289	-		
					Top side	0	18700	1860	19.5	19.47	0.69%	1.270	1.279	301		
					Top side*	0	18700	1860	19.5	19.47	0.69%	1.250	1.259	-		
					Bottom side	0	18700	1860	19.5	19.47	0.69%	0.032	0.032	-		
					Right side	0	18700	1860	19.5	19.47	0.69%	0.462	0.465	-		
					Left side	0	18700	1860	19.5	19.47	0.69%	0.049	0.049	-		
				50	Top side	0	19100	1900	19.5	19.45	1.16%	1.090	1.103	-		
					99	Top side	0	18900	1880	19.5	19.44	1.39%	1.100	1.115	-	
					50 RB	0	Back side	0	18900	1880	19.5	19.46	0.93%	0.279	0.282	-
							Top side	0	18900	1880	19.5	19.46	0.93%	1.250	1.262	-
							Bottom side	0	18900	1880	19.5	19.46	0.93%	0.030	0.030	-
							Right side	0	18900	1880	19.5	19.46	0.93%	0.461	0.465	-
			Left side	0			18900	1880	19.5	19.46	0.93%	0.046	0.046	-		
			25	Top side			0	19100	1900	19.5	19.42	1.86%	1.010	1.029	-	
			100 RB	50	0	Top side	0	18700	1860	19.5	19.44	1.39%	1.260	1.278	-	
						Back side	0	18900	1880	19.5	19.33	3.99%	0.297	0.309	-	
						Top side	0	18700	1860	19.5	19.25	5.93%	1.120	1.186	-	
						Top side	0	18900	1880	19.5	19.33	3.99%	1.190	1.238	-	
						Top side	0	19100	1900	19.5	19.22	6.66%	1.070	1.141	-	
						Bottom side	0	18900	1880	19.5	19.33	3.99%	0.041	0.043	-	
				100	0	Right side	0	18900	1880	19.5	19.33	3.99%	0.491	0.511	-	
						Left side	0	18900	1880	19.5	19.33	3.99%	0.063	0.066	-	

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

### LTE FDD Band 4

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 4	20MHz	QPSK	1 RB	0	Back side	0	20300	1745	20.5	20.49	0.23%	0.342	0.343	-		
					Top side	0	20300	1745	20.5	20.49	0.23%	1.380	1.383	302		
					Top side*	0	20300	1745	20.5	20.49	0.23%	1.370	1.373	-		
					Bottom side	0	20300	1745	20.5	20.49	0.23%	0.033	0.033	-		
					Right side	0	20300	1745	20.5	20.49	0.23%	0.585	0.586	-		
					Left side	0	20300	1745	20.5	20.49	0.23%	0.046	0.046	-		
				99	Top side	0	20050	1720	20.5	20.48	0.46%	1.350	1.356	-		
					Top side	0	20175	1732.5	20.5	20.47	0.69%	1.360	1.369	-		
					Top side	0	20050	1720	20.5	20.41	2.09%	1.300	1.327	-		
					Top side	0	20175	1732.5	20.5	20.32	4.23%	1.260	1.313	-		
					50 RB	50	Back side	0	20300	1745	20.5	20.48	0.46%	0.313	0.314	-
							Top side	0	20300	1745	20.5	20.48	0.46%	1.290	1.296	-
			Bottom side	0			20300	1745	20.5	20.48	0.46%	0.029	0.029	-		
			Right side	0			20300	1745	20.5	20.48	0.46%	0.537	0.539	-		
			Left side	0			20300	1745	20.5	20.48	0.46%	0.041	0.041	-		
			100 RB	0			Back side	0	20300	1745	20.5	20.44	1.39%	0.310	0.314	-
					Top side	0	20050	1720	20.5	20.38	2.80%	1.330	1.367	-		
					Top side	0	20175	1732.5	20.5	20.25	5.93%	1.260	1.355	-		
					Top side	0	20300	1745	20.5	20.44	1.39%	1.290	1.308	-		
					Bottom side	0	20300	1745	20.5	20.44	1.39%	0.026	0.026	-		
					Right side	0	20300	1745	20.5	20.44	1.39%	0.509	0.516	-		
			100	0	Left side	0	20300	1745	20.5	20.44	1.39%	0.039	0.040	-		

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

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### LTE FDD Band 5

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 5	10MHz	QPSK	1 RB	0	Back side	0	20450	829	21	20.98	0.46%	0.028	0.028	-
					Top side	0	20450	829	21	20.98	0.46%	1.190	1.195	303
					Top side*	0	20450	829	21	20.98	0.46%	1.160	1.165	-
					Top side	0	20525	836.5	21	20.95	1.16%	1.010	1.022	-
					Top side	0	20600	844	21	20.93	1.62%	0.927	0.942	-
					Bottom side	0	20450	829	21	20.98	0.46%	0.033	0.033	-
			25 RB	25	Right side	0	20450	829	21	20.98	0.46%	0.483	0.485	-
					Left side	0	20450	829	21	20.98	0.46%	0.043	0.043	-
					Back side	0	20600	844	21	20.95	1.16%	0.272	0.275	-
					Top side	0	20450	829	21	20.92	1.86%	0.979	0.997	-
					Top side	0	20525	836.5	21	20.87	3.04%	0.994	1.024	-
					Top side	0	20600	844	21	20.95	1.16%	0.960	0.971	-
			50 RB		Bottom side	0	20600	844	21	20.95	1.16%	0.029	0.029	-
					Right side	0	20600	844	21	20.95	1.16%	0.472	0.477	-
					Left side	0	20600	844	21	20.95	1.16%	0.041	0.041	-
					Back side	0	20600	844	21	20.91	2.09%	0.271	0.277	-
					Top side	0	20450	829	21	20.86	3.28%	1.000	1.033	-
					Top side	0	20525	836.5	21	20.87	3.04%	0.902	0.929	-
			50 RB		Top side	0	20600	844	21	20.91	2.09%	0.951	0.971	-
					Bottom side	0	20600	844	21	20.91	2.09%	0.022	0.022	-
					Right side	0	20600	844	21	20.91	2.09%	0.480	0.490	-
					Left side	0	20600	844	21	20.91	2.09%	0.043	0.044	-

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

### LTE FDD Band 7

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 7	20MHz	QPSK	1 RB	0	Back side	0	20850	2510	19.5	19.48	0.46%	0.221	0.222	-
					Top side	0	20850	2510	19.5	19.48	0.46%	0.794	0.798	304
					Top side	0	21100	2535	19.5	19.46	0.93%	0.786	0.793	-
					Top side	0	21350	2560	19.5	19.47	0.69%	0.777	0.782	-
					Bottom side	0	20850	2510	19.5	19.48	0.46%	0.027	0.027	-
					Right side	0	20850	2510	19.5	19.48	0.46%	0.355	0.357	-
			50 RB	0	Left side	0	20850	2510	19.5	19.48	0.46%	0.033	0.033	-
					Back side	0	20850	2510	19.5	19.43	1.62%	0.192	0.195	-
					Top side	0	20850	2510	19.5	19.43	1.62%	0.763	0.775	-
					Bottom side	0	20850	2510	19.5	19.43	1.62%	0.021	0.021	-
					Right side	0	20850	2510	19.5	19.43	1.62%	0.330	0.335	-
					Left side	0	20850	2510	19.5	19.43	1.62%	0.030	0.030	-
			50 RB	50	Top side	0	21100	2535	19.5	19.29	4.95%	0.745	0.782	-
					Top side	0	21350	2560	19.5	19.41	2.09%	0.743	0.759	-
				100 RB	Back side	0	20850	2510	19.5	19.46	0.93%	0.186	0.188	-
					Top side	0	20850	2510	19.5	19.46	0.93%	0.756	0.763	-
					Top side	0	21100	2535	19.5	19.33	3.99%	0.741	0.771	-
					Top side	0	21350	2560	19.5	19.32	4.23%	0.738	0.769	-
			Bottom side	0	20850	2510	19.5	19.46	0.93%	0.019	0.019	-		
			Right side	0	20850	2510	19.5	19.46	0.93%	0.321	0.324	-		
			100 RB		Left side	0	20850	2510	19.5	19.46	0.93%	0.029	0.029	-

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### LTE FDD Band 12

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 12	10MHz	QPSK	1 RB	0	Back side	0	23095	707.5	21	20.97	0.69%	0.390	0.393	-
					Top side	0	23060	704	21	20.93	1.62%	1.350	1.372	-
					Top side	0	23095	707.5	21	20.97	0.69%	1.330	1.339	-
					Top side	0	23130	711	21	20.96	0.93%	1.370	1.383	305
					Top side*	0	23130	711	21	20.96	0.93%	1.320	1.332	-
					Bottom side	0	23095	707.5	21	20.97	0.69%	0.047	0.047	-
				Right side	0	23095	707.5	21	20.97	0.69%	0.631	0.635	-	
				Left side	0	23095	707.5	21	20.97	0.69%	0.055	0.055	-	
				Back side	0	23130	711	21	20.88	2.80%	0.349	0.359	-	
				Top side	0	23060	704	21	20.82	4.23%	1.320	1.376	-	
				Top side	0	23095	707.5	21	20.84	3.75%	1.310	1.359	-	
				Top side	0	23130	711	21	20.88	2.80%	1.270	1.306	-	
			Bottom side	0	23130	711	21	20.88	2.80%	0.044	0.045	-		
			Right side	0	23130	711	21	20.88	2.80%	0.617	0.634	-		
			Left side	0	23130	711	21	20.88	2.80%	0.052	0.053	-		
			Back side	0	23130	711	21	20.88	2.80%	0.348	0.358	-		
			Top side	0	23060	704	21	20.83	3.99%	1.290	1.341	-		
			Top side	0	23095	707.5	21	20.85	3.51%	1.250	1.294	-		
			Top side	0	23130	711	21	20.88	2.80%	1.240	1.275	-		
			Bottom side	0	23130	711	21	20.88	2.80%	0.046	0.047	-		
			Right side	0	23130	711	21	20.88	2.80%	0.611	0.628	-		
			Left side	0	23130	711	21	20.88	2.80%	0.051	0.052	-		

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

### LTE FDD Band 13

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 13	10MHz	QPSK	1 RB	0	Top side	0	23230	782	21	20.97	0.69%	1.420	1.430	306
					Top side*	0	23230	782	21	20.97	0.69%	1.370	1.379	-
					Back side	0	23230	782	21	20.99	0.23%	0.363	0.364	-
					Top side	0	23230	782	21	20.99	0.23%	1.270	1.273	-
					Bottom side	0	23230	782	21	20.99	0.23%	0.049	0.049	-
					Right side	0	23230	782	21	20.99	0.23%	0.645	0.646	-
				Left side	0	23230	782	21	20.99	0.23%	0.059	0.059	-	
				Top side	0	23230	782	21	20.86	3.28%	1.340	1.384	-	
				Back side	0	23230	782	21	20.97	0.69%	0.329	0.331	-	
				Top side	0	23230	782	21	20.97	0.69%	1.350	1.359	-	
				Bottom side	0	23230	782	21	20.97	0.69%	0.045	0.045	-	
				Right side	0	23230	782	21	20.97	0.69%	0.641	0.645	-	
			Left side	0	23230	782	21	20.97	0.69%	0.058	0.058	-		
			Top side	0	23230	782	21	20.77	5.44%	1.320	1.392	-		
			Top side	0	23230	782	21	20.87	3.04%	1.290	1.329	-		
			Back side	0	23230	782	21	20.96	0.93%	0.317	0.320	-		
			Top side	0	23230	782	21	20.96	0.93%	1.360	1.373	-		
			Bottom side	0	23230	782	21	20.96	0.93%	0.043	0.043	-		
			Right side	0	23230	782	21	20.96	0.93%	0.578	0.583	-		
			Left side	0	23230	782	21	20.96	0.93%	0.050	0.050	-		

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

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### LTE FDD Band 17

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 17	10MHz	QPSK	1 RB	0	Back side	0	23780	709	21	20.97	0.69%	0.386	0.389	-
					Top side	0	23780	709	21	20.97	0.69%	1.390	1.400	307
					Top side*	0	23780	709	21	20.97	0.69%	1.340	1.349	-
					Top side	0	23790	710	21	20.95	1.16%	1.330	1.345	-
					Top side	0	23800	711	21	20.94	1.39%	1.340	1.359	-
					Bottom side	0	23780	709	21	20.97	0.69%	0.047	0.047	-
					Right side	0	23780	709	21	20.97	0.69%	0.628	0.632	-
					Left side	0	23780	709	21	20.97	0.69%	0.058	0.058	-
					Back side	0	23790	710	21	20.88	2.80%	0.367	0.377	-
					Top side	0	23780	709	21	20.86	3.28%	1.290	1.332	-
					Top side	0	23790	710	21	20.88	2.80%	1.240	1.275	-
					Top side	0	23800	711	21	20.84	3.75%	1.250	1.297	-
			25 RB	25	Bottom side	0	23790	710	21	20.88	2.80%	0.040	0.041	-
					Right side	0	23790	710	21	20.88	2.80%	0.618	0.635	-
					Left side	0	23790	710	21	20.88	2.80%	0.054	0.056	-
					Back side	0	23800	711	21	20.84	3.75%	0.363	0.377	-
					Top side	0	23780	709	21	20.82	4.23%	1.260	1.313	-
					Top side	0	23790	710	21	20.81	4.47%	1.210	1.264	-
					Top side	0	23800	711	21	20.84	3.75%	1.220	1.266	-
					Bottom side	0	23800	711	21	20.84	3.75%	0.039	0.040	-
					Right side	0	23800	711	21	20.84	3.75%	0.611	0.634	-
					Left side	0	23800	711	21	20.84	3.75%	0.051	0.053	-

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

### LTE FDD Band 26

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 26	15MHz	QPSK	1 RB	0	Back side	0	26865	831.5	21	20.98	0.46%	0.336	0.338	-		
					Top side	0	26865	831.5	21	20.98	0.46%	1.170	1.175	308		
					Top side*	0	26865	831.5	21	20.98	0.46%	1.130	1.135	-		
					Bottom side	0	26865	831.5	21	20.98	0.46%	0.039	0.039	-		
					Right side	0	26865	831.5	21	20.98	0.46%	0.616	0.619	-		
					Left side	0	26865	831.5	21	20.98	0.46%	0.047	0.047	-		
					Top side	0	26765	821.5	21	20.94	1.39%	1.130	1.146	-		
					Top side	0	26965	841.5	21	20.95	1.16%	0.935	0.946	-		
					Top side	0	26965	841.5	21	20.82	4.23%	1.120	1.167	-		
					Top side	0	26865	831.5	21	20.91	2.09%	1.090	1.113	-		
					36 RB	37	Back side	0	26765	821.5	21	20.97	0.69%	0.345	0.347	-
							Top side	0	26765	821.5	21	20.97	0.69%	1.060	1.067	-
			Bottom side	0			26765	821.5	21	20.97	0.69%	0.036	0.036	-		
			Right side	0			26765	821.5	21	20.97	0.69%	0.636	0.640	-		
			Left side	0			26765	821.5	21	20.97	0.69%	0.045	0.045	-		
			Back side	0			26865	831.5	21	20.97	0.69%	0.342	0.344	-		
			Top side	0			26765	821.5	21	20.88	2.80%	1.080	1.110	-		
			Top side	0			26865	831.5	21	20.97	0.69%	1.030	1.037	-		
			Top side	0			26965	841.5	21	20.83	3.99%	1.010	1.050	-		
			Bottom side	0			26865	831.5	21	20.97	0.69%	0.038	0.038	-		
			Right side	0			26865	831.5	21	20.97	0.69%	0.631	0.635	-		
			Left side	0			26865	831.5	21	20.97	0.69%	0.054	0.054	-		

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

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### LTE FDD Band 30

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page	
												Measured	Reported		
LTE Band 30	10MHz	QPSK	1 RB	0	Back side	0	27710	2310	20	19.95	1.16%	0.201	0.203	-	
					Top side	0	27710	2310	20	19.95	1.16%	0.707	0.715	309	
					Bottom side	0	27710	2310	20	19.95	1.16%	0.021	0.021	-	
					Right side	0	27710	2310	20	19.95	1.16%	0.318	0.322	-	
					Left side	0	27710	2310	20	19.95	1.16%	0.030	0.030	-	
					25	Top side	0	27710	2310	20	19.89	2.57%	0.678	0.695	-
				25 RB	0	Top side	0	27710	2310	20	19.87	3.04%	0.678	0.699	-
						Top side	0	27710	2310	19	18.98	0.46%	0.544	0.547	-
						Back side	0	27710	2310	19	18.99	0.23%	0.183	0.183	-
					12	Top side	0	27710	2310	19	18.99	0.23%	0.555	0.556	-
						Bottom side	0	27710	2310	19	18.99	0.23%	0.018	0.018	-
						Right side	0	27710	2310	19	18.99	0.23%	0.246	0.247	-
			50 RB	25	Left side	0	27710	2310	19	18.99	0.23%	0.026	0.026	-	
					Top side	0	27710	2310	19	18.89	2.57%	0.547	0.561	-	
					Back side	0	27710	2310	19	18.93	1.62%	0.172	0.175	-	
				0	Top side	0	27710	2310	19	18.93	1.62%	0.539	0.548	-	
					Bottom side	0	27710	2310	19	18.93	1.62%	0.017	0.017	-	
					Right side	0	27710	2310	19	18.93	1.62%	0.251	0.255	-	
			Left side	0	27710	2310	19	18.93	1.62%	0.022	0.022	-			

### LTE TDD Band 38

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page	
												Measured	Reported		
LTE Band 38	20MHz	QPSK	1 RB	0	Back side	0	37850	2580	24	23.68	7.65%	0.158	0.170	-	
					Top side	0	37850	2580	24	23.68	7.65%	0.706	0.760	310	
					Top side	0	38150	2610	24	23.55	10.92%	0.677	0.751	-	
					Bottom side	0	37850	2580	24	23.68	7.65%	0.001	0.002	-	
					Right side	0	37850	2580	24	23.68	7.65%	0.332	0.357	-	
					Left side	0	37850	2580	24	23.68	7.65%	0.028	0.030	-	
				50 RB	99	Top side	0	38000	2595	24	23.58	10.15%	0.677	0.746	-
						Back side	0	37850	2580	23	22.58	10.15%	0.132	0.145	-
						Top side	0	37850	2580	23	22.58	10.15%	0.644	0.709	-
					0	Bottom side	0	37850	2580	23	22.58	10.15%	0.001	0.001	-
						Right side	0	37850	2580	23	22.58	10.15%	0.331	0.365	-
						Left side	0	37850	2580	23	22.58	10.15%	0.023	0.025	-
			100 RB	50	Top side	0	38000	2595	23	22.55	10.92%	0.639	0.709	-	
					Top side	0	38150	2610	23	22.49	12.46%	0.628	0.706	-	
					Back side	0	37850	2580	23	22.54	11.17%	0.136	0.151	-	
					Top side	0	37850	2580	23	22.54	11.17%	0.634	0.705	-	
					Top side	0	38000	2595	23	22.52	11.69%	0.628	0.701	-	
					Top side	0	38150	2610	23	22.50	12.20%	0.620	0.696	-	
				0	Bottom side	0	37850	2580	23	22.54	11.17%	0.001	0.001	-	
					Right side	0	37850	2580	23	22.54	11.17%	0.329	0.366	-	
					Left side	0	37850	2580	23	22.54	11.17%	0.018	0.020	-	

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### LTE TDD Band 41

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 41	20MHz	QPSK	1 RB	0	Back side	0	41490	2680	24	23.36	15.88%	0.187	0.217	-
					Top side	0	39750	2506	24	23.15	21.62%	0.598	0.727	-
					Top side	0	40185	2549.5	24	23.21	19.95%	0.603	0.723	-
					Top side	0	41490	2680	24	23.36	15.88%	0.631	0.731	311
					Bottom side	0	41490	2680	24	23.36	15.88%	0.018	0.021	-
					Right side	0	41490	2680	24	23.36	15.88%	0.282	0.327	-
				99	Left side	0	41490	2680	24	23.36	15.88%	0.024	0.028	-
					Top side	0	40620	2593	24	23.26	18.58%	0.581	0.689	-
					Top side	0	41055	2636.5	24	23.32	16.95%	0.577	0.675	-
					Back side	0	41490	2680	23	22.34	16.41%	0.190	0.221	-
					Top side	0	39750	2506	23	22.19	20.50%	0.567	0.683	-
					Top side	0	41055	2636.5	23	22.26	18.58%	0.546	0.647	-
			50 RB	0	Top side	0	41490	2680	23	22.34	16.41%	0.566	0.659	-
					Bottom side	0	41490	2680	23	22.34	16.41%	0.017	0.020	-
					Right side	0	41490	2680	23	22.34	16.41%	0.291	0.339	-
					Left side	0	41490	2680	23	22.34	16.41%	0.023	0.027	-
					Top side	0	40620	2593	23	22.14	21.90%	0.541	0.659	-
					Back side	0	41490	2680	23	22.45	13.50%	0.191	0.217	-
				50	Top side	0	39750	2506	23	22.22	19.67%	0.538	0.644	-
					Top side	0	40185	2549.5	23	22.14	21.90%	0.530	0.646	-
					Top side	0	40620	2593	23	22.24	19.12%	0.527	0.628	-
					Top side	0	41055	2636.5	23	22.27	18.30%	0.512	0.606	-
					Top side	0	41490	2680	23	22.45	13.50%	0.550	0.624	-
					Bottom side	0	41490	2680	23	22.45	13.50%	0.015	0.017	-
			100 RB	Right side	0	41490	2680	23	22.45	13.50%	0.293	0.333	-	
				Left side	0	41490	2680	23	22.45	13.50%	0.021	0.024	-	

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**LTE FDD Band 66**

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page	
												Measured	Reported		
LTE Band 66	20MHz	QPSK	1 RB	0	Back side	0	132572	1770	19.5	19.48	0.46%	0.383	0.385	-	
					Top side	0	132072	1720	19.5	19.42	1.86%	1.280	1.304	-	
					Top side	0	132322	1745	19.5	19.45	1.16%	1.310	1.325	-	
					Top side	0	132572	1770	19.5	19.48	0.46%	1.360	1.366	312	
					Top side*	0	132572	1770	19.5	19.48	0.46%	1.340	1.346	-	
					Bottom side	0	132572	1770	19.5	19.48	0.46%	0.035	0.035	-	
				Right side	0	132572	1770	19.5	19.48	0.46%	0.630	0.633	-		
				Left side	0	132572	1770	19.5	19.48	0.46%	0.056	0.056	-		
				0	Top side	0	132072	1720	19.5	19.36	3.28%	1.210	1.250	-	
				50 RB	50	Back side	0	132322	1745	19.5	19.46	0.93%	0.345	0.348	-
						Top side	0	132322	1745	19.5	19.46	0.93%	1.180	1.191	-
						Top side	0	132572	1770	19.5	19.38	2.80%	1.270	1.306	-
			Bottom side			0	132322	1745	19.5	19.46	0.93%	0.029	0.029	-	
			Right side			0	132322	1745	19.5	19.46	0.93%	0.620	0.626	-	
			Left side			0	132322	1745	19.5	19.46	0.93%	0.046	0.046	-	
			100 RB		Back side	0	132322	1745	19.5	19.37	3.04%	0.361	0.372	-	
					Top side	0	132072	1720	19.5	19.34	3.75%	1.230	1.276	-	
					Top side	0	132322	1745	19.5	19.37	3.04%	1.190	1.226	-	
					Top side	0	132572	1770	19.5	19.33	3.99%	1.290	1.341	-	
					Bottom side	0	132322	1745	19.5	19.37	3.04%	0.440	0.453	-	
					Right side	0	132322	1745	19.5	19.37	3.04%	0.591	0.609	-	
				Left side	0	132322	1745	19.5	19.37	3.04%	0.049	0.050	-		

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

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Hong-Bo

WCDMA Band II

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back side	0	9400	1880	19	18.97	0.69%	0.316	0.318	-
	Top side	0	9262	1852.4	19	18.95	1.16%	1.260	1.275	-
	Top side	0	9400	1880	19	18.97	0.69%	1.380	1.390	313
	Top side*	0	9400	1880	19	18.97	0.69%	1.340	1.349	-
	Top side	0	9538	1907.6	19	18.86	3.28%	1.230	1.270	-
	Bottom side	0	9400	1880	19	18.97	0.69%	0.031	0.032	-
	Right side	0	9400	1880	19	18.97	0.69%	0.511	0.515	-
Left side	0	9400	1880	19	18.97	0.69%	0.046	0.046	-	

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

WCDMA Band IV

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band IV	Back side	0	1513	1752.6	19.5	19.48	0.46%	0.289	0.290	-
	Top side	0	1312	1712.4	19.5	19.28	5.20%	1.310	1.378	-
	Top side	0	1412	1732.4	19.5	19.37	3.04%	1.340	1.381	314
	Top side*	0	1412	1732.4	19.5	19.37	3.04%	1.330	1.370	-
	Top side	0	1513	1752.6	19.5	19.48	0.46%	1.320	1.326	-
	Bottom side	0	1513	1752.6	19.5	19.48	0.46%	0.031	0.031	-
	Right side	0	1513	1752.6	19.5	19.48	0.46%	0.482	0.484	-
Left side	0	1513	1752.6	19.5	19.48	0.46%	0.054	0.054	-	

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

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### WCDMA Band V

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band V	Back side	0	4132	826.4	21	20.98	0.46%	0.287	0.288	-
	Top side	0	4132	826.4	21	20.98	0.46%	1.310	1.316	315
	Top side*	0	4132	826.4	21	20.98	0.46%	1.290	1.296	-
	Top side	0	4183	836.6	21	20.92	1.86%	1.150	1.171	-
	Top side	0	4233	846.6	21	20.95	1.16%	1.040	1.052	-
	Bottom side	0	4132	826.4	21	20.98	0.46%	0.029	0.029	-
	Right side	0	4132	826.4	21	20.98	0.46%	0.472	0.474	-
	Left side	0	4132	826.4	21	20.98	0.46%	0.053	0.053	-

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

### LTE FDD Band 2

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page	
												Measured	Reported		
LTE Band 2	20MHz	QPSK	1 RB	0	Back side	0	18700	1860	19.5	19.47	0.69%	0.289	0.291	-	
					Top side	0	18700	1860	19.5	19.47	0.69%	1.060	1.067	-	
					Bottom side	0	18700	1860	19.5	19.47	0.69%	0.029	0.029	-	
					Right side	0	18700	1860	19.5	19.47	0.69%	0.464	0.467	-	
					Left side	0	18700	1860	19.5	19.47	0.69%	0.046	0.046	-	
					Top side	0	19100	1900	19.5	19.45	1.16%	1.270	1.285	316	
				50	Top side*	0	19100	1900	19.5	19.45	1.16%	1.250	1.264	-	
					Top side	0	18900	1880	19.5	19.44	1.39%	1.000	1.014	-	
					Back side	0	18900	1880	19.5	19.46	0.93%	0.264	0.266	-	
				50 RB	0	Top side	0	18900	1880	19.5	19.46	0.93%	1.190	1.201	-
						Bottom side	0	18900	1880	19.5	19.46	0.93%	0.025	0.025	-
						Right side	0	18900	1880	19.5	19.46	0.93%	0.448	0.452	-
					25	Left side	0	18900	1880	19.5	19.46	0.93%	0.039	0.039	-
						Top side	0	19100	1900	19.5	19.42	1.86%	1.050	1.070	-
						Top side	0	18700	1860	19.5	19.44	1.39%	1.130	1.146	-
				100 RB	0	Back side	0	18900	1880	19.5	19.33	3.99%	0.269	0.280	-
						Top side	0	18700	1860	19.5	19.25	5.93%	1.130	1.197	-
						Top side	0	18900	1880	19.5	19.33	3.99%	1.190	1.238	-
					25	Top side	0	19100	1900	19.5	19.22	6.66%	1.200	1.280	-
						Bottom side	0	18900	1880	19.5	19.33	3.99%	0.026	0.027	-
						Right side	0	18900	1880	19.5	19.33	3.99%	0.437	0.454	-
				Left side	0	18900	1880	19.5	19.33	3.99%	0.039	0.040	-		

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

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### LTE FDD Band 4

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 4	20MHz	QPSK	1 RB	0	Back side	0	20300	1745	20.5	20.49	0.23%	0.291	0.292	-
					Top side	0	20300	1745	20.5	20.49	0.23%	1.280	1.283	317
					Top side*	0	20300	1745	20.5	20.49	0.23%	1.260	1.263	-
					Bottom side	0	20300	1745	20.5	20.49	0.23%	0.031	0.031	-
					Right side	0	20300	1745	20.5	20.49	0.23%	0.481	0.482	-
					Left side	0	20300	1745	20.5	20.49	0.23%	0.056	0.056	-
				99	Top side	0	20050	1720	20.5	20.48	0.46%	1.170	1.175	-
					Top side	0	20175	1732.5	20.5	20.47	0.69%	1.210	1.218	-
					Top side	0	20050	1720	20.5	20.41	2.09%	1.090	1.113	-
					Top side	0	20175	1732.5	20.5	20.32	4.23%	1.040	1.084	-
					Back side	0	20300	1745	20.5	20.48	0.46%	0.282	0.283	-
					Top side	0	20300	1745	20.5	20.48	0.46%	1.030	1.035	-
			50 RB	0	Back side	0	20300	1745	20.5	20.48	0.46%	0.282	0.283	-
					Top side	0	20300	1745	20.5	20.48	0.46%	1.030	1.035	-
					Bottom side	0	20300	1745	20.5	20.48	0.46%	0.029	0.029	-
					Right side	0	20300	1745	20.5	20.48	0.46%	0.464	0.466	-
					Left side	0	20300	1745	20.5	20.48	0.46%	0.047	0.047	-
					Back side	0	20300	1745	20.5	20.44	1.39%	0.277	0.281	-
				50	Top side	0	20050	1720	20.5	20.38	2.80%	1.010	1.038	-
					Top side	0	20175	1732.5	20.5	20.25	5.93%	1.020	1.080	-
					Top side	0	20300	1745	20.5	20.44	1.39%	1.040	1.054	-
					Bottom side	0	20300	1745	20.5	20.44	1.39%	0.028	0.028	-
					Right side	0	20300	1745	20.5	20.44	1.39%	0.458	0.464	-
					Left side	0	20300	1745	20.5	20.44	1.39%	0.040	0.041	-

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

### LTE FDD Band 5

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 5	10MHz	QPSK	1 RB	0	Back side	0	20450	829	21	20.98	0.46%	0.296	0.297	-		
					Top side	0	20450	829	21	20.98	0.46%	1.320	1.326	318		
					Top side*	0	20450	829	21	20.98	0.46%	1.290	1.296	-		
					Top side	0	20525	836.5	21	20.95	1.16%	1.240	1.254	-		
					Top side	0	20600	844	21	20.93	1.62%	1.150	1.169	-		
					Bottom side	0	20450	829	21	20.98	0.46%	0.322	0.323	-		
					Right side	0	20450	829	21	20.98	0.46%	0.499	0.501	-		
					Left side	0	20450	829	21	20.98	0.46%	0.062	0.062	-		
					25 RB	25	Back side	0	20600	844	21	20.95	1.16%	0.290	0.293	-
							Top side	0	20450	829	21	20.92	1.86%	1.260	1.283	-
							Top side	0	20525	836.5	21	20.87	3.04%	1.140	1.175	-
							Top side	0	20600	844	21	20.95	1.16%	1.080	1.093	-
			Bottom side	0			20600	844	21	20.95	1.16%	0.292	0.295	-		
			Right side	0			20600	844	21	20.95	1.16%	0.488	0.494	-		
			50 RB	25	Left side	0	20600	844	21	20.95	1.16%	0.057	0.058	-		
					Back side	0	20600	844	21	20.91	2.09%	0.291	0.297	-		
					Top side	0	20450	829	21	20.86	3.28%	1.250	1.291	-		
					Top side	0	20525	836.5	21	20.87	3.04%	1.150	1.185	-		
					Top side	0	20600	844	21	20.91	2.09%	1.100	1.123	-		
					Bottom side	0	20600	844	21	20.91	2.09%	0.277	0.283	-		
					Right side	0	20600	844	21	20.91	2.09%	0.486	0.496	-		
					Left side	0	20600	844	21	20.91	2.09%	0.055	0.056	-		

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

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### LTE FDD Band 7

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page	
												Measured	Reported		
LTE Band 7	20MHz	QPSK	1 RB	0	Back side	0	20850	2510	19.5	19.48	0.46%	0.276	0.277	-	
					Top side	0	20850	2510	19.5	19.48	0.46%	1.290	1.296	319	
					Top side*	0	20850	2510	19.5	19.48	0.46%	1.280	1.286	-	
					Top side	0	21100	2535	19.5	19.46	0.93%	1.270	1.282	-	
					Top side	0	21350	2560	19.5	19.47	0.69%	1.220	1.228	-	
					Bottom side	0	20850	2510	19.5	19.48	0.46%	0.032	0.032	-	
					Right side	0	20850	2510	19.5	19.48	0.46%	0.455	0.457	-	
					Left side	0	20850	2510	19.5	19.48	0.46%	0.054	0.055	-	
			50 RB	0	Back side	0	20850	2510	19.5	19.43	1.62%	0.274	0.278	-	
					Top side	0	20850	2510	19.5	19.43	1.62%	1.270	1.291	-	
					Bottom side	0	20850	2510	19.5	19.43	1.62%	0.031	0.032	-	
					Right side	0	20850	2510	19.5	19.43	1.62%	0.453	0.460	-	
					Left side	0	20850	2510	19.5	19.43	1.62%	0.053	0.054	-	
					50	Top side	0	21100	2535	19.5	19.29	4.95%	1.210	1.270	-
						Top side	0	21350	2560	19.5	19.41	2.09%	1.170	1.194	-
						100 RB	Back side	0	20850	2510	19.5	19.46	0.93%	0.272	0.275
			Top side	0			20850	2510	19.5	19.46	0.93%	1.280	1.292	-	
			100 RB	Top side	0	21100	2535	19.5	19.33	3.99%	1.260	1.310	-		
				Top side	0	21350	2560	19.5	19.32	4.23%	1.180	1.230	-		
				Bottom side	0	20850	2510	19.5	19.46	0.93%	0.029	0.029	-		
				Right side	0	20850	2510	19.5	19.46	0.93%	0.443	0.447	-		
				Left side	0	20850	2510	19.5	19.46	0.93%	0.046	0.047	-		

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

### LTE FDD Band 12

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 12	10MHz	QPSK	1 RB	0	Back side	0	23095	707.5	21	20.97	0.69%	0.308	0.310	-
					Top side	0	23060	704	21	20.93	1.62%	1.280	1.301	-
					Top side	0	23095	707.5	21	20.97	0.69%	1.320	1.329	320
					Top side*	0	23095	707.5	21	20.97	0.69%	1.310	1.319	-
					Top side	0	23130	711	21	20.96	0.93%	1.300	1.312	-
					Bottom side	0	23095	707.5	21	20.97	0.69%	0.032	0.032	-
					Right side	0	23095	707.5	21	20.97	0.69%	0.516	0.520	-
					Left side	0	23095	707.5	21	20.97	0.69%	0.051	0.051	-
			25 RB	25	Back side	0	23130	711	21	20.88	2.80%	0.306	0.315	-
					Top side	0	23060	704	21	20.82	4.23%	1.260	1.313	-
					Top side	0	23095	707.5	21	20.84	3.75%	1.250	1.297	-
					Top side	0	23130	711	21	20.88	2.80%	1.270	1.306	-
					Bottom side	0	23130	711	21	20.88	2.80%	0.032	0.033	-
					Right side	0	23130	711	21	20.88	2.80%	0.523	0.538	-
					Left side	0	23130	711	21	20.88	2.80%	0.052	0.054	-
					50 RB		Back side	0	23130	711	21	20.88	2.80%	0.307
			Top side	0			23060	704	21	20.83	3.99%	1.240	1.290	-
			Top side	0			23095	707.5	21	20.85	3.51%	1.260	1.304	-
			Top side	0			23130	711	21	20.88	2.80%	1.270	1.306	-
			Bottom side	0			23130	711	21	20.88	2.80%	0.034	0.035	-
			Right side	0			23130	711	21	20.88	2.80%	0.525	0.540	-
			Left side	0			23130	711	21	20.88	2.80%	0.054	0.056	-

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

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### LTE FDD Band 13

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 13	10MHz	QPSK	1 RB	0	Top side	0	23230	782	21	20.97	0.69%	1.310	1.319	321
					Top side*	0	23230	782	21	20.97	0.69%	1.300	1.309	-
					Back side	0	23230	782	21	20.99	0.23%	0.268	0.269	-
					Top side	0	23230	782	21	20.99	0.23%	1.280	1.283	-
					Bottom side	0	23230	782	21	20.99	0.23%	0.025	0.025	-
					Right side	0	23230	782	21	20.99	0.23%	0.473	0.474	-
				25	Left side	0	23230	782	21	20.99	0.23%	0.040	0.040	-
					Top side	0	23230	782	21	20.86	3.28%	1.260	1.301	-
					Back side	0	23230	782	21	20.97	0.69%	0.289	0.291	-
					Top side	0	23230	782	21	20.97	0.69%	1.210	1.218	-
					Bottom side	0	23230	782	21	20.97	0.69%	0.032	0.032	-
					Right side	0	23230	782	21	20.97	0.69%	0.483	0.486	-
			25 RB	0	Left side	0	23230	782	21	20.97	0.69%	0.048	0.048	-
					Top side	0	23230	782	21	20.77	5.44%	1.240	1.307	-
					Top side	0	23230	782	21	20.87	3.04%	1.230	1.267	-
				12	Back side	0	23230	782	21	20.96	0.93%	0.280	0.283	-
					Top side	0	23230	782	21	20.96	0.93%	1.240	1.251	-
					Bottom side	0	23230	782	21	20.96	0.93%	0.030	0.031	-
			25	Right side	0	23230	782	21	20.96	0.93%	0.481	0.485	-	
				Left side	0	23230	782	21	20.96	0.93%	0.045	0.046	-	
				Left side	0	23230	782	21	20.96	0.93%	0.045	0.046	-	

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

### LTE FDD Band 17

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 17	10MHz	QPSK	1 RB	0	Back side	0	23780	709	21	20.97	0.69%	0.305	0.307	-		
					Top side	0	23780	709	21	20.97	0.69%	1.330	1.339	322		
					Top side*	0	23780	709	21	20.97	0.69%	1.310	1.319	-		
					Top side	0	23790	710	21	20.95	1.16%	1.300	1.315	-		
					Top side	0	23800	711	21	20.94	1.39%	1.280	1.298	-		
					Bottom side	0	23780	709	21	20.97	0.69%	0.046	0.046	-		
					Right side	0	23780	709	21	20.97	0.69%	0.501	0.504	-		
					25 RB	25	Left side	0	23780	709	21	20.97	0.69%	0.072	0.072	-
							Back side	0	23790	710	21	20.88	2.80%	0.247	0.254	-
							Top side	0	23780	709	21	20.86	3.28%	1.250	1.291	-
							Top side	0	23790	710	21	20.88	2.80%	1.260	1.295	-
							Top side	0	23800	711	21	20.84	3.75%	1.280	1.328	-
			Bottom side	0			23790	710	21	20.88	2.80%	0.028	0.029	-		
			50 RB	50	Right side	0	23790	710	21	20.88	2.80%	0.476	0.489	-		
					Left side	0	23790	710	21	20.88	2.80%	0.038	0.039	-		
					Back side	0	23800	711	21	20.84	3.75%	0.245	0.254	-		
					Top side	0	23780	709	21	20.82	4.23%	1.270	1.324	-		
					Top side	0	23790	710	21	20.81	4.47%	1.260	1.316	-		
					Top side	0	23800	711	21	20.84	3.75%	1.280	1.328	-		
					Bottom side	0	23800	711	21	20.84	3.75%	0.023	0.024	-		
					Right side	0	23800	711	21	20.84	3.75%	0.450	0.467	-		
					50 RB	50	Left side	0	23800	711	21	20.84	3.75%	0.033	0.034	-
							Left side	0	23800	711	21	20.84	3.75%	0.033	0.034	-
							Left side	0	23800	711	21	20.84	3.75%	0.033	0.034	-

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

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### LTE FDD Band 26

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 26	15MHz	QPSK	1 RB	0	Back side	0	26865	831.5	21	20.98	0.46%	0.292	0.293	-		
					Top side	0	26865	831.5	21	20.98	0.46%	1.300	1.306	323		
					Top side*	0	26865	831.5	21	20.98	0.46%	1.280	1.286	-		
					Bottom side	0	26865	831.5	21	20.98	0.46%	0.031	0.031	-		
					Right side	0	26865	831.5	21	20.98	0.46%	0.495	0.497	-		
					Left side	0	26865	831.5	21	20.98	0.46%	0.058	0.058	-		
				36	Top side	0	26765	821.5	21	20.94	1.39%	1.240	1.257	-		
				74	Top side	0	26965	841.5	21	20.95	1.16%	1.070	1.082	-		
				36 RB	0	Top side	0	26965	841.5	21	20.82	4.23%	1.100	1.147	-	
						18	Top side	0	26865	831.5	21	20.91	2.09%	1.220	1.246	-
						Back side	0	26765	821.5	21	20.97	0.69%	0.257	0.259	-	
						Top side	0	26765	821.5	21	20.97	0.69%	1.260	1.269	-	
			Bottom side			0	26765	821.5	21	20.97	0.69%	0.029	0.029	-		
			Right side			0	26765	821.5	21	20.97	0.69%	0.491	0.494	-		
			37		Left side	0	26765	821.5	21	20.97	0.69%	0.053	0.053	-		
					Back side	0	26865	831.5	21	20.97	0.69%	0.255	0.257	-		
					Top side	0	26765	821.5	21	20.88	2.80%	1.240	1.275	-		
					Top side	0	26865	831.5	21	20.97	0.69%	1.230	1.239	-		
					Top side	0	26965	841.5	21	20.83	3.99%	0.968	1.007	-		
					Bottom side	0	26865	831.5	21	20.97	0.69%	0.027	0.027	-		
			75 RB	Right side	0	26865	831.5	21	20.97	0.69%	0.488	0.491	-			
				Left side	0	26865	831.5	21	20.97	0.69%	0.049	0.049	-			

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

### LTE FDD Band 30

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page	
												Measured	Reported		
LTE Band 30	10MHz	QPSK	1 RB	0	Back side	0	27710	2310	20	19.95	1.16%	0.223	0.226	-	
					Top side	0	27710	2310	20	19.95	1.16%	1.230	1.244	-	
					Bottom side	0	27710	2310	20	19.95	1.16%	0.032	0.033	-	
					Right side	0	27710	2310	20	19.95	1.16%	0.473	0.478	-	
					Left side	0	27710	2310	20	19.95	1.16%	0.046	0.047	-	
					25	Top side	0	27710	2310	20	19.89	2.57%	1.270	1.303	-
				25 RB	12	Top side	0	27710	2310	20	19.87	3.04%	1.290	1.329	324
						Top side*	0	27710	2310	20	19.87	3.04%	1.280	1.319	-
						0	Top side	0	27710	2310	19	18.98	0.46%	1.070	1.075
					25	Back side	0	27710	2310	19	18.99	0.23%	0.185	0.185	-
						Top side	0	27710	2310	19	18.99	0.23%	1.050	1.052	-
						Bottom side	0	27710	2310	19	18.99	0.23%	0.025	0.025	-
			50 RB	12	Right side	0	27710	2310	19	18.99	0.23%	0.373	0.374	-	
					Left side	0	27710	2310	19	18.99	0.23%	0.036	0.036	-	
					Top side	0	27710	2310	19	18.89	2.57%	1.030	1.056	-	
				25	Back side	0	27710	2310	19	18.93	1.62%	0.173	0.176	-	
					Top side	0	27710	2310	19	18.93	1.62%	1.010	1.026	-	
					Bottom side	0	27710	2310	19	18.93	1.62%	0.024	0.024	-	
			Right side	0	27710	2310	19	18.93	1.62%	0.371	0.377	-			
			Left side	0	27710	2310	19	18.93	1.62%	0.035	0.036	-			

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

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### LTE TDD Band 38

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 38	20MHz	QPSK	1 RB	0	Back side	0	37850	2580	24	23.68	7.65%	0.244	0.263	-		
					Top side	0	37850	2580	24	23.68	7.65%	1.100	1.184	325		
					Top side*	0	37850	2580	24	23.68	7.65%	1.070	1.152	-		
					Top side	0	38150	2610	24	23.55	10.92%	1.060	1.176	-		
					Bottom side	0	37850	2580	24	23.68	7.65%	0.021	0.022	-		
					Right side	0	37850	2580	24	23.68	7.65%	0.452	0.487	-		
					Left side	0	37850	2580	24	23.68	7.65%	0.039	0.041	-		
					Top side	0	38000	2595	24	23.58	10.15%	1.070	1.179	-		
					Back side	0	37850	2580	23	22.58	10.15%	0.229	0.252	-		
			99	0	50 RB	0	Top side	0	37850	2580	23	22.58	10.15%	0.928	1.022	-
							Bottom side	0	37850	2580	23	22.58	10.15%	0.018	0.020	-
							Right side	0	37850	2580	23	22.58	10.15%	0.424	0.467	-
							Left side	0	37850	2580	23	22.58	10.15%	0.037	0.040	-
							Top side	0	38000	2595	23	22.55	10.92%	0.877	0.973	-
							Top side	0	38150	2610	23	22.49	12.46%	0.868	0.976	-
							Back side	0	37850	2580	23	22.54	11.17%	0.214	0.238	-
							Top side	0	37850	2580	23	22.54	11.17%	0.953	1.059	-
							Top side	0	38000	2595	23	22.52	11.69%	0.894	0.998	-
			100 RB	0	50	0	Top side	0	38150	2610	23	22.60	12.20%	0.862	0.967	-
							Bottom side	0	37850	2580	23	22.54	11.17%	0.016	0.018	-
							Right side	0	37850	2580	23	22.54	11.17%	0.396	0.440	-
							Left side	0	37850	2580	23	22.54	11.17%	0.033	0.037	-

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

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### LTE TDD Band 41

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page	
												Measured	Reported		
LTE Band 41	20MHz	QPSK	1 RB	0	Back side	0	41490	2680	24	23.36	15.88%	0.213	0.247	-	
					Top side	0	39750	2506	24	23.15	21.62%	0.978	1.189	-	
					Top side	0	40185	2549.5	24	23.21	19.95%	0.947	1.136	-	
					Top side	0	41490	2680	24	23.36	15.88%	1.050	1.217	326	
					Top side*	0	41490	2680	24	23.36	15.88%	1.010	1.170	-	
					Bottom side	0	41490	2680	24	23.36	15.88%	0.025	0.029	-	
					Right side	0	41490	2680	24	23.36	15.88%	0.378	0.438	-	
					Left side	0	41490	2680	24	23.36	15.88%	0.045	0.052	-	
					99	Top side	0	40620	2593	24	23.26	18.58%	0.904	1.072	-
				Top side	0	41055	2636.5	24	23.32	16.95%	0.919	1.075	-		
				Back side	0	41490	2680	23	22.34	16.41%	0.182	0.212	-		
				50 RB	0	Top side	0	39750	2506	23	22.19	20.50%	0.834	1.005	-
						Top side	0	40185	2549.5	23	22.16	21.34%	0.796	0.966	-
						Top side	0	41055	2636.5	23	22.26	18.58%	0.816	0.968	-
						Top side	0	41490	2680	23	22.34	16.41%	0.826	0.962	-
						Bottom side	0	41490	2680	23	22.34	16.41%	0.019	0.022	-
						Right side	0	41490	2680	23	22.34	16.41%	0.323	0.376	-
						Left side	0	41490	2680	23	22.34	16.41%	0.039	0.046	-
			50			Top side	0	40620	2593	23	22.14	21.90%	0.791	0.964	-
			Back side			0	41490	2680	23	22.45	13.50%	0.179	0.203	-	
			Top side		0	39750	2506	23	22.22	19.67%	0.842	1.008	-		
			Top side		0	40185	2549.5	23	22.14	21.90%	0.819	0.998	-		
			100 RB		Top side	0	40620	2593	23	22.24	19.12%	0.795	0.947	-	
					Top side	0	41055	2636.5	23	22.27	18.30%	0.810	0.958	-	
					Top side	0	41490	2680	23	22.45	13.50%	0.833	0.945	-	
					Bottom side	0	41490	2680	23	22.45	13.50%	0.018	0.021	-	
					Right side	0	41490	2680	23	22.45	13.50%	0.317	0.360	-	
					Left side	0	41490	2680	23	22.45	13.50%	0.036	0.041	-	

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

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**LTE FDD Band 66**

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 66	20MHz	QPSK	1 RB	0	Back side	0	132572	1770	19.5	19.48	0.46%	0.276	0.277	-
					Top side	0	132072	1720	19.5	19.42	1.86%	1.230	1.253	-
					Top side	0	132322	1745	19.5	19.45	1.16%	1.210	1.224	-
					Top side	0	132572	1770	19.5	19.48	0.46%	1.300	1.306	327
					Top side*	0	132572	1770	19.5	19.48	0.46%	1.290	1.296	-
					Bottom side	0	132572	1770	19.5	19.48	0.46%	0.028	0.028	-
				Right side	0	132572	1770	19.5	19.48	0.46%	0.491	0.493	-	
				Left side	0	132572	1770	19.5	19.48	0.46%	0.057	0.057	-	
				Top side	0	132072	1720	19.5	19.36	3.28%	1.250	1.291	-	
				Back side	0	132322	1745	19.5	19.46	0.93%	0.268	0.270	-	
				Top side	0	132322	1745	19.5	19.46	0.93%	1.220	1.231	-	
				Top side	0	132572	1770	19.5	19.38	2.80%	1.210	1.244	-	
			Bottom side	0	132322	1745	19.5	19.46	0.93%	0.027	0.027	-		
			Right side	0	132322	1745	19.5	19.46	0.93%	0.472	0.476	-		
			Left side	0	132322	1745	19.5	19.46	0.93%	0.053	0.053	-		
			Back side	0	132322	1745	19.5	19.37	3.04%	0.255	0.263	-		
			Top side	0	132072	1720	19.5	19.34	3.75%	1.180	1.224	-		
			Top side	0	132322	1745	19.5	19.37	3.04%	1.160	1.195	-		
			Top side	0	132572	1770	19.5	19.33	3.99%	1.240	1.290	-		
			Bottom side	0	132322	1745	19.5	19.37	3.04%	0.025	0.025	-		
			Right side	0	132322	1745	19.5	19.37	3.04%	0.409	0.421	-		
			Left side	0	132322	1745	19.5	19.37	3.04%	0.043	0.044	-		

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

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**AWAN**

**WLAN Antenna (Tablet mode)**

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Main	WLAN 802.11b	Back side	0	1	2412	17.50	17.48	100.46%	0.207	0.208	-
		Top side	0	1	2412	17.50	17.48	100.46%	0.716	0.719	328
		Bottom side	0	1	2412	17.50	17.48	100.46%	0.039	0.040	-
		Right side	0	1	2412	17.50	17.48	100.46%	0.041	0.041	-
		Left side	0	1	2412	17.50	17.48	100.46%	0.303	0.304	-
	WLAN 802.11ac(80M) 5.2G	Back side	0	42	5210	15.50	15.50	100.00%	0.051	0.051	-
		Top side	0	42	5210	15.50	15.50	100.00%	0.158	0.158	329
		Bottom side	0	42	5210	15.50	15.50	100.00%	0.007	0.007	-
		Right side	0	42	5210	15.50	15.50	100.00%	0.008	0.008	-
		Left side	0	42	5210	15.50	15.50	100.00%	0.071	0.071	-
	WLAN 802.11ac(80M) 5.3G	Back side	0	58	5290	15.50	15.50	100.00%	0.076	0.076	-
		Top side	0	58	5290	15.50	15.50	100.00%	0.184	0.184	330
		Bottom side	0	58	5290	15.50	15.50	100.00%	0.009	0.009	-
		Right side	0	58	5290	15.50	15.50	100.00%	0.010	0.010	-
	WLAN 802.11ac(80M) 5.6G	Left side	0	58	5290	15.50	15.50	100.00%	0.076	0.076	-
		Back side	0	138	5690	15.50	15.50	100.00%	0.284	0.284	-
		Top side	0	106	5530	15.50	15.47	100.69%	0.829	0.835	-
		Top side	0	138	5690	15.50	15.50	100.00%	0.851	0.851	331
		Top side*	0	138	5690	15.50	15.50	100.00%	0.843	0.843	-
		Bottom side	0	138	5690	15.50	15.50	100.00%	0.057	0.057	-
	WLAN 802.11ac(80M) 5.8G	Right side	0	138	5690	15.50	15.50	100.00%	0.059	0.059	-
		Left side	0	138	5690	15.50	15.50	100.00%	0.332	0.332	-
		Back side	0	155	5775	15.50	15.45	101.16%	0.282	0.285	-
		Top side	0	155	5775	15.50	15.45	101.16%	0.848	0.858	332
		Top side*	0	155	5775	15.50	15.45	101.16%	0.833	0.843	-
Bottom side	0	155	5775	15.50	15.45	101.16%	0.055	0.056	-		
Right side	0	155	5775	15.50	15.45	101.16%	0.057	0.058	-		
Left side	0	155	5775	15.50	15.45	101.16%	0.328	0.332	-		

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

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### WLAN Aux Antenna (Tablet mode)

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Aux	WLAN 802.11b	Back side	0	1	2412	17.50	17.50	100.00%	0.211	0.211	-
		Top side	0	1	2412	17.50	17.50	100.00%	0.778	0.778	333
		Bottom side	0	1	2412	17.50	17.50	100.00%	0.041	0.041	-
		Right side	0	1	2412	17.50	17.50	100.00%	0.044	0.044	-
		Left side	0	1	2412	17.50	17.50	100.00%	0.321	0.321	-
	Bluetooth (GFSK)	Back side	0	78	2480	11.50	8.66	192.31%	0.031	0.060	-
		Top side	0	78	2480	11.50	8.66	192.31%	0.111	0.213	334
		Bottom side	0	78	2480	11.50	8.66	192.31%	0.005	0.010	-
		Right side	0	78	2480	11.50	8.66	192.31%	0.006	0.012	-
		Left side	0	78	2480	11.50	8.66	192.31%	0.071	0.137	-
	WLAN 802.11ac(80M) 5.2G	Back side	0	42	5210	15.50	15.50	100.00%	0.207	0.207	-
		Top side	0	42	5210	15.50	15.50	100.00%	0.726	0.726	335
		Bottom side	0	42	5210	15.50	15.50	100.00%	0.039	0.039	-
		Right side	0	42	5210	15.50	15.50	100.00%	0.041	0.041	-
		Left side	0	42	5210	15.50	15.50	100.00%	0.301	0.301	-
	WLAN 802.11ac(80M) 5.3G	Back side	0	58	5290	15.50	15.50	100.00%	0.196	0.196	-
		Top side	0	58	5290	15.50	15.50	100.00%	0.623	0.623	336
		Bottom side	0	58	5290	15.50	15.50	100.00%	0.032	0.032	-
		Right side	0	58	5290	15.50	15.50	100.00%	0.037	0.037	-
		Left side	0	58	5290	15.50	15.50	100.00%	0.287	0.287	-
	WLAN 802.11ac(80M) 5.6G	Back side	0	138	5690	15.50	15.50	100.00%	0.134	0.134	-
		Top side	0	138	5690	15.50	15.50	100.00%	0.482	0.482	337
		Bottom side	0	138	5690	15.50	15.50	100.00%	0.023	0.023	-
		Right side	0	138	5690	15.50	15.50	100.00%	0.024	0.024	-
		Left side	0	138	5690	15.50	15.50	100.00%	0.211	0.211	-
	WLAN 802.11ac(80M) 5.8G	Back side	0	155	5775	15.50	15.48	100.46%	0.143	0.144	-
		Top side	0	155	5775	15.50	15.48	100.46%	0.585	0.588	338
		Bottom side	0	155	5775	15.50	15.48	100.46%	0.027	0.027	-
Right side		0	155	5775	15.50	15.48	100.46%	0.026	0.027	-	
Left side		0	155	5775	15.50	15.48	100.46%	0.243	0.244	-	

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HONG-BO

WLAN Antenna (Tablet mode)

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Main	WLAN 802.11b	Back side	0	1	2412	17.50	17.48	100.46%	0.199	0.200	-
		Top side	0	1	2412	17.50	17.48	100.46%	0.725	0.728	339
		Bottom side	0	1	2412	17.50	17.48	100.46%	0.038	0.038	-
		Right side	0	1	2412	17.50	17.48	100.46%	0.041	0.041	-
		Left side	0	1	2412	17.50	17.48	100.46%	0.308	0.309	-
	WLAN 802.11ac(80M) 5.2G	Back side	0	42	5210	15.50	15.50	100.00%	0.354	0.354	-
		Top side	0	42	5210	15.50	15.50	100.00%	1.170	1.170	340
		Top side*	0	42	5210	15.50	15.50	100.00%	1.100	1.100	-
		Bottom side	0	42	5210	15.50	15.50	100.00%	0.073	0.073	-
		Right side	0	42	5210	15.50	15.50	100.00%	0.077	0.077	-
	WLAN 802.11ac(80M) 5.3G	Left side	0	42	5210	15.50	15.50	100.00%	0.564	0.564	-
		Back side	0	58	5290	15.50	15.50	100.00%	0.351	0.351	-
		Top side	0	58	5290	15.50	15.50	100.00%	1.190	1.190	341
		Top side*	0	58	5290	15.50	15.50	100.00%	1.120	1.120	-
		Bottom side	0	58	5290	15.50	15.50	100.00%	0.069	0.069	-
	WLAN 802.11ac(80M) 5.6G	Right side	0	58	5290	15.50	15.50	100.00%	0.074	0.074	-
		Left side	0	58	5290	15.50	15.50	100.00%	0.558	0.558	-
		Back side	0	106	5530	15.50	15.47	100.69%	0.342	0.344	-
		Top side	0	106	5530	15.50	15.47	100.69%	1.120	1.128	-
		Top side	0	138	5690	15.50	15.50	100.00%	1.150	1.150	342
	WLAN 802.11ac(80M) 5.8G	Top side*	0	138	5690	15.50	15.50	100.00%	1.110	1.110	-
		Bottom side	0	106	5530	15.50	15.47	100.69%	0.064	0.065	-
		Right side	0	106	5530	15.50	15.47	100.69%	0.069	0.070	-
		Left side	0	106	5530	15.50	15.47	100.69%	0.532	0.536	-
		Back side	0	155	5775	15.50	15.45	101.16%	0.338	0.342	-
	WLAN 802.11ac(80M) 5.8G	Top side	0	155	5775	15.50	15.45	101.16%	1.120	1.133	343
		Top side*	0	155	5775	15.50	15.45	101.16%	1.060	1.072	-
		Bottom side	0	155	5775	15.50	15.45	101.16%	0.061	0.062	-
		Right side	0	155	5775	15.50	15.45	101.16%	0.066	0.067	-
		Left side	0	155	5775	15.50	15.45	101.16%	0.528	0.534	-

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

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### WLAN Aux Antenna (Tablet mode)

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Aux	WLAN 802.11b	Back side	0	1	2412	17.50	17.50	100.00%	0.311	0.311	-
		Top side	0	1	2412	17.50	17.50	100.00%	0.938	0.938	344
		Top side	0	1	2412	17.50	17.50	100.00%	0.930	0.930	-
		Top side	0	6	2437	17.50	17.46	100.93%	0.917	0.925	-
		Bottom side	0	1	2412	17.50	17.50	100.00%	0.074	0.074	-
		Right side	0	1	2412	17.50	17.50	100.00%	0.077	0.077	-
		Left side	0	1	2412	17.50	17.50	100.00%	0.451	0.451	-
	Bluetooth (GFSK)	Back side	0	78	2480	11.50	8.66	192.31%	0.051	0.098	-
		Top side	0	78	2480	11.50	8.66	192.31%	0.100	0.192	345
		Bottom side	0	78	2480	11.50	8.66	192.31%	0.003	0.006	-
		Right side	0	78	2480	11.50	8.66	192.31%	0.002	0.005	-
		Left side	0	78	2480	11.50	8.66	192.31%	0.061	0.118	-
	WLAN 802.11ac(80M) 5.2G	Back side	0	42	5210	15.50	15.50	100.00%	0.346	0.346	-
		Top side	0	42	5210	15.50	15.50	100.00%	1.190	1.190	346
		Top side*	0	42	5210	15.50	15.50	100.00%	1.163	1.163	-
		Bottom side	0	42	5210	15.50	15.50	100.00%	0.081	0.081	-
		Right side	0	42	5210	15.50	15.50	100.00%	0.092	0.092	-
		Left side	0	42	5210	15.50	15.50	100.00%	0.511	0.511	-
	WLAN 802.11ac(80M) 5.3G	Back side	0	58	5290	15.50	15.50	100.00%	0.322	0.322	-
		Top side	0	58	5290	15.50	15.50	100.00%	0.981	0.981	347
		Top side*	0	58	5290	15.50	15.50	100.00%	0.976	0.976	-
		Bottom side	0	58	5290	15.50	15.50	100.00%	0.076	0.076	-
		Right side	0	58	5290	15.50	15.50	100.00%	0.079	0.079	-
		Left side	0	58	5290	15.50	15.50	100.00%	0.456	0.456	-
	WLAN 802.11ac(80M) 5.6G	Back side	0	138	5690	15.50	15.50	100.00%	0.294	0.294	-
		Top side	0	106	5530	15.50	15.48	100.46%	0.811	0.815	-
		Top side	0	138	5690	15.50	15.50	100.00%	0.834	0.834	348
		Top side*	0	138	5690	15.50	15.50	100.00%	0.831	0.831	-
		Bottom side	0	138	5690	15.50	15.50	100.00%	0.069	0.069	-
		Right side	0	138	5690	15.50	15.50	100.00%	0.071	0.071	-
		Left side	0	138	5690	15.50	15.50	100.00%	0.427	0.427	-
	WLAN 802.11ac(80M) 5.8G	Back side	0	155	5775	15.50	15.48	100.46%	0.273	0.274	-
		Top side	0	155	5775	15.50	15.48	100.46%	0.757	0.760	349
		Bottom side	0	155	5775	15.50	15.48	100.46%	0.061	0.062	-
		Right side	0	155	5775	15.50	15.48	100.46%	0.065	0.065	-
		Left side	0	155	5775	15.50	15.48	100.46%	0.415	0.417	-

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

Note:

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

Reported SAR = measured SAR \* (scaling)

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

### 2.3 Reporting statements of conformity

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

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### 3. Simultaneous Transmission Analysis

**Simultaneous Transmission Scenarios:**

NO.	Simultaneous Transmit Configurations	Body
1	UMTS + 2.4GHz WLAN Main / 2.4GHz WLAN Aux / 2.4GHz MIMO	YES
2	UMTS + 5GHz WLAN Main / 5GHz WLAN Aux / 5GHz MIMO	YES
3	UMTS + BT	YES
4	UMTS + 2.4/5GHz WLAN Main + BT	YES
5	LTE + 2.4GHz WLAN Main / 2.4GHz WLAN Aux / 2.4GHz MIMO	YES
6	LTE + 5GHz WLAN Main / 5GHz WLAN Aux / 5GHz MIMO	YES
7	LTE + BT	YES
8	LTE + 2.4/5GHz WLAN Main + BT	YES

Note :

- 1) WWAN and WLAN may transmit simultaneously.
- 2) Bluetooth and WLAN Aux share the same antenna path.
- 3) Bluetooth can transmit with WLAN Main simultaneously.

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### 3.1 Estimated SAR calculation

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

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

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

### 3.2 SPLSR evaluation and analysis

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

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

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

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

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

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**AWAN**

**Back side WWAN + 2.4G WLAN**

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
1	Back side	WCDMA Band 2	0	0.251	0.208	0.211	0.670	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.305	0.208	0.211	0.724	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.294	0.208	0.211	0.713	ΣSAR<1.6, Not required
		LTE Band 2	0	0.309	0.208	0.211	0.728	ΣSAR<1.6, Not required
		LTE Band 4	0	0.343	0.208	0.211	0.762	ΣSAR<1.6, Not required
		LTE Band 5	0	0.277	0.208	0.211	0.696	ΣSAR<1.6, Not required
		LTE Band 7	0	0.222	0.208	0.211	0.641	ΣSAR<1.6, Not required
		LTE Band 12	0	0.393	0.208	0.211	0.812	ΣSAR<1.6, Not required
		LTE Band 13	0	0.364	0.208	0.211	0.783	ΣSAR<1.6, Not required
		LTE Band 17	0	0.389	0.208	0.211	0.808	ΣSAR<1.6, Not required
		LTE Band 26	0	0.347	0.208	0.211	0.766	ΣSAR<1.6, Not required
		LTE Band 30	0	0.203	0.208	0.211	0.622	ΣSAR<1.6, Not required
		LTE Band 38	0	0.170	0.208	0.211	0.589	ΣSAR<1.6, Not required
		LTE Band 41	0	0.221	0.208	0.211	0.640	ΣSAR<1.6, Not required
LTE Band 66	0	0.385	0.208	0.211	0.804	ΣSAR<1.6, Not required		

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Back side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
2	Back side	WCDMA Band 2	0	0.251	0.285	0.207	0.743	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.305	0.285	0.207	0.797	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.294	0.285	0.207	0.786	ΣSAR<1.6, Not required
		LTE Band 2	0	0.309	0.285	0.207	0.801	ΣSAR<1.6, Not required
		LTE Band 4	0	0.343	0.285	0.207	0.835	ΣSAR<1.6, Not required
		LTE Band 5	0	0.277	0.285	0.207	0.769	ΣSAR<1.6, Not required
		LTE Band 7	0	0.222	0.285	0.207	0.714	ΣSAR<1.6, Not required
		LTE Band 12	0	0.393	0.285	0.207	0.885	ΣSAR<1.6, Not required
		LTE Band 13	0	0.364	0.285	0.207	0.856	ΣSAR<1.6, Not required
		LTE Band 17	0	0.389	0.285	0.207	0.881	ΣSAR<1.6, Not required
		LTE Band 26	0	0.347	0.285	0.207	0.839	ΣSAR<1.6, Not required
		LTE Band 30	0	0.203	0.285	0.207	0.695	ΣSAR<1.6, Not required
		LTE Band 38	0	0.170	0.285	0.207	0.662	ΣSAR<1.6, Not required
		LTE Band 41	0	0.221	0.285	0.207	0.713	ΣSAR<1.6, Not required
LTE Band 66	0	0.385	0.285	0.207	0.877	ΣSAR<1.6, Not required		

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Back side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
3	Back side	WCDMA Band 2	0	0.251	0.208	0.060	0.519	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.305	0.208	0.060	0.573	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.294	0.208	0.060	0.562	ΣSAR<1.6, Not required
		LTE Band 2	0	0.309	0.208	0.060	0.577	ΣSAR<1.6, Not required
		LTE Band 4	0	0.343	0.208	0.060	0.611	ΣSAR<1.6, Not required
		LTE Band 5	0	0.277	0.208	0.060	0.545	ΣSAR<1.6, Not required
		LTE Band 7	0	0.222	0.208	0.060	0.490	ΣSAR<1.6, Not required
		LTE Band 12	0	0.393	0.208	0.060	0.661	ΣSAR<1.6, Not required
		LTE Band 13	0	0.364	0.208	0.060	0.632	ΣSAR<1.6, Not required
		LTE Band 17	0	0.389	0.208	0.060	0.657	ΣSAR<1.6, Not required
		LTE Band 26	0	0.347	0.208	0.060	0.615	ΣSAR<1.6, Not required
		LTE Band 30	0	0.203	0.208	0.060	0.471	ΣSAR<1.6, Not required
		LTE Band 38	0	0.170	0.208	0.060	0.438	ΣSAR<1.6, Not required
		LTE Band 41	0	0.221	0.208	0.060	0.489	ΣSAR<1.6, Not required
LTE Band 66	0	0.385	0.208	0.060	0.653	ΣSAR<1.6, Not required		

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Back side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
4	Back side	WCDMA Band 2	0	0.251	0.285	0.060	0.596	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.305	0.285	0.060	0.650	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.294	0.285	0.060	0.639	ΣSAR<1.6, Not required
		LTE Band 2	0	0.309	0.285	0.060	0.654	ΣSAR<1.6, Not required
		LTE Band 4	0	0.343	0.285	0.060	0.688	ΣSAR<1.6, Not required
		LTE Band 5	0	0.277	0.285	0.060	0.622	ΣSAR<1.6, Not required
		LTE Band 7	0	0.222	0.285	0.060	0.567	ΣSAR<1.6, Not required
		LTE Band 12	0	0.393	0.285	0.060	0.738	ΣSAR<1.6, Not required
		LTE Band 13	0	0.364	0.285	0.060	0.709	ΣSAR<1.6, Not required
		LTE Band 17	0	0.389	0.285	0.060	0.734	ΣSAR<1.6, Not required
		LTE Band 26	0	0.347	0.285	0.060	0.692	ΣSAR<1.6, Not required
		LTE Band 30	0	0.203	0.285	0.060	0.548	ΣSAR<1.6, Not required
		LTE Band 38	0	0.170	0.285	0.060	0.515	ΣSAR<1.6, Not required
		LTE Band 41	0	0.221	0.285	0.060	0.566	ΣSAR<1.6, Not required
LTE Band 66	0	0.385	0.285	0.060	0.730	ΣSAR<1.6, Not required		

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Top side WWAN + 2.4G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
5	Top side	WCDMA Band 2	0	1.345	0.719	0.778	<b>2.842</b>	Analyzed as below
		WCDMA Band 4	0	1.386	0.719	0.778	<b>2.883</b>	Analyzed as below
		WCDMA Band 5	0	1.216	0.719	0.778	<b>2.713</b>	Analyzed as below
		LTE Band 2	0	1.279	0.719	0.778	<b>2.776</b>	Analyzed as below
		LTE Band 4	0	1.383	0.719	0.778	<b>2.880</b>	Analyzed as below
		LTE Band 5	0	1.195	0.719	0.778	<b>2.692</b>	Analyzed as below
		LTE Band 7	0	0.798	0.719	0.778	<b>2.295</b>	Analyzed as below
		LTE Band 12	0	1.383	0.719	0.778	<b>2.880</b>	Analyzed as below
		LTE Band 13	0	1.430	0.719	0.778	<b>2.927</b>	Analyzed as below
		LTE Band 17	0	1.400	0.719	0.778	<b>2.897</b>	Analyzed as below
		LTE Band 26	0	1.175	0.719	0.778	<b>2.672</b>	Analyzed as below
		LTE Band 30	0	0.715	0.719	0.778	<b>2.212</b>	Analyzed as below
		LTE Band 38	0	0.760	0.719	0.778	<b>2.257</b>	Analyzed as below
		LTE Band 41	0	0.731	0.719	0.778	<b>2.228</b>	Analyzed as below
LTE Band 66	0	1.366	0.719	0.778	<b>2.863</b>	Analyzed as below		

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Top side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
6	Top side	WCDMA Band 2	0	1.345	0.858	0.726	<b>2.929</b>	Analyzed as below
		WCDMA Band 4	0	1.386	0.858	0.726	<b>2.970</b>	Analyzed as below
		WCDMA Band 5	0	1.216	0.858	0.726	<b>2.800</b>	Analyzed as below
		LTE Band 2	0	1.279	0.858	0.726	<b>2.863</b>	Analyzed as below
		LTE Band 4	0	1.383	0.858	0.726	<b>2.967</b>	Analyzed as below
		LTE Band 5	0	1.195	0.858	0.726	<b>2.779</b>	Analyzed as below
		LTE Band 7	0	0.798	0.858	0.726	<b>2.382</b>	Analyzed as below
		LTE Band 12	0	1.383	0.858	0.726	<b>2.967</b>	Analyzed as below
		LTE Band 13	0	1.430	0.858	0.726	<b>3.014</b>	Analyzed as below
		LTE Band 17	0	1.400	0.858	0.726	<b>2.984</b>	Analyzed as below
		LTE Band 26	0	1.175	0.858	0.726	<b>2.759</b>	Analyzed as below
		LTE Band 30	0	0.715	0.858	0.726	<b>2.299</b>	Analyzed as below
		LTE Band 38	0	0.760	0.858	0.726	<b>2.344</b>	Analyzed as below
		LTE Band 41	0	0.731	0.858	0.726	<b>2.315</b>	Analyzed as below
LTE Band 66	0	1.366	0.858	0.726	<b>2.950</b>	Analyzed as below		

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Top side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
7	Top side	WCDMA Band 2	0	1.345	0.719	0.213	<b>2.277</b>	Analyzed as below
		WCDMA Band 4	0	1.386	0.719	0.213	<b>2.318</b>	Analyzed as below
		WCDMA Band 5	0	1.216	0.719	0.213	<b>2.148</b>	Analyzed as below
		LTE Band 2	0	1.279	0.719	0.213	<b>2.211</b>	Analyzed as below
		LTE Band 4	0	1.383	0.719	0.213	<b>2.315</b>	Analyzed as below
		LTE Band 5	0	1.195	0.719	0.213	<b>2.127</b>	Analyzed as below
		LTE Band 7	0	0.798	0.719	0.213	<b>1.730</b>	Analyzed as below
		LTE Band 12	0	1.383	0.719	0.213	<b>2.315</b>	Analyzed as below
		LTE Band 13	0	1.430	0.719	0.213	<b>2.362</b>	Analyzed as below
		LTE Band 17	0	1.400	0.719	0.213	<b>2.332</b>	Analyzed as below
		LTE Band 26	0	1.175	0.719	0.213	<b>2.107</b>	Analyzed as below
		LTE Band 30	0	0.715	0.719	0.213	<b>1.647</b>	Analyzed as below
		LTE Band 38	0	0.760	0.719	0.213	<b>1.692</b>	Analyzed as below
		LTE Band 41	0	0.731	0.719	0.213	<b>1.663</b>	Analyzed as below
LTE Band 66	0	1.366	0.719	0.213	<b>2.298</b>	Analyzed as below		

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Top side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
8	Top side	WCDMA Band 2	0	1.345	0.858	0.213	<b>2.416</b>	Analyzed as below
		WCDMA Band 4	0	1.386	0.858	0.213	<b>2.457</b>	Analyzed as below
		WCDMA Band 5	0	1.216	0.858	0.213	<b>2.287</b>	Analyzed as below
		LTE Band 2	0	1.279	0.858	0.213	<b>2.350</b>	Analyzed as below
		LTE Band 4	0	1.383	0.858	0.213	<b>2.454</b>	Analyzed as below
		LTE Band 5	0	1.195	0.858	0.213	<b>2.266</b>	Analyzed as below
		LTE Band 7	0	0.798	0.858	0.213	<b>1.869</b>	Analyzed as below
		LTE Band 12	0	1.383	0.858	0.213	<b>2.454</b>	Analyzed as below
		LTE Band 13	0	1.430	0.858	0.213	<b>2.501</b>	Analyzed as below
		LTE Band 17	0	1.400	0.858	0.213	<b>2.471</b>	Analyzed as below
		LTE Band 26	0	1.175	0.858	0.213	<b>2.246</b>	Analyzed as below
		LTE Band 30	0	0.715	0.858	0.213	<b>1.786</b>	Analyzed as below
		LTE Band 38	0	0.760	0.858	0.213	<b>1.831</b>	Analyzed as below
		LTE Band 41	0	0.731	0.858	0.213	<b>1.802</b>	Analyzed as below
		LTE Band 66	0	1.366	0.858	0.213	<b>2.437</b>	Analyzed as below

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## Top side WWAN + 2.4G WLAN Main

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN Main	0.719	-0.64	-5.28	-0.20	-	-	-	-
	WCDMA Band 2	1.345	-0.95	8.00	-0.68	2.064	132.93	0.022	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.386	-0.80	8.00	-0.68	2.105	132.90	0.023	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.216	-0.81	9.69	-6.97	1.935	164.33	0.016	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.279	-0.95	8.00	-0.69	1.998	132.93	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.383	-0.95	8.00	-0.67	2.102	132.92	0.023	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.195	-0.66	9.84	-0.70	1.914	151.29	0.018	SPLSR ≤ 0.04, Not required
	LTE Band 7	0.798	-0.94	7.94	-0.63	1.517	132.31	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.383	-0.65	10.00	-0.70	2.102	152.88	0.020	SPLSR ≤ 0.04, Not required
	LTE Band 13	1.430	-0.19	9.50	-0.44	2.149	147.89	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.400	-0.80	9.85	-0.69	2.119	151.39	0.020	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.175	-0.35	9.35	-0.44	1.894	146.35	0.018	SPLSR ≤ 0.04, Not required
	LTE Band 30	0.715	-0.72	7.98	-0.55	1.434	132.65	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 38	0.760	-0.74	11.44	-0.18	1.479	167.20	0.011	SPLSR ≤ 0.04, Not required
	LTE Band 41	0.731	-0.84	7.96	-0.48	1.450	132.45	0.013	SPLSR ≤ 0.04, Not required
LTE Band 66	1.366	-0.95	8.04	-0.66	2.085	133.32	0.023	SPLSR ≤ 0.04, Not required	

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Top side WWAN + 2.4G WLAN Aux

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN Aux	0.778	-0.34	-14.14	-0.22	-	-	-	-
	WCDMA Band 2	1.345	-0.95	8.00	-0.68	2.123	221.53	0.014	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.386	-0.80	8.00	-0.68	2.164	221.50	0.014	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.216	-0.81	9.69	-6.97	1.994	247.71	0.011	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.279	-0.95	8.00	-0.69	2.057	221.53	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.383	-0.95	8.00	-0.67	2.161	221.53	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.195	-0.66	9.84	-0.70	1.973	239.87	0.012	SPLSR ≤ 0.04, Not required
	LTE Band 7	0.798	-0.94	7.94	-0.63	1.576	220.92	0.009	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.383	-0.65	10.00	-0.70	2.161	241.47	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 13	1.430	-0.19	9.50	-0.44	2.208	236.41	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.400	-0.80	9.85	-0.69	2.178	239.99	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.175	-0.35	9.35	-0.44	1.953	234.91	0.012	SPLSR ≤ 0.04, Not required
	LTE Band 30	0.715	-0.72	7.98	-0.55	1.493	221.26	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 38	0.760	-0.74	11.44	-0.18	1.538	255.83	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 41	0.731	-0.84	7.96	-0.48	1.509	221.07	0.008	SPLSR ≤ 0.04, Not required
LTE Band 66	1.366	-0.95	8.04	-0.66	2.144	221.93	0.014	SPLSR ≤ 0.04, Not required	

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Top side WWAN + 5G WLAN Main

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN Main	0.858	-0.36	-5.88	-0.21	-	-	-	-
	WCDMA Band 2	1.345	-0.95	8.00	-0.68	2.203	139.01	0.024	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.386	-0.80	8.00	-0.68	2.244	138.95	0.024	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.216	-0.81	9.69	-6.97	2.074	169.81	0.018	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.279	-0.95	8.00	-0.69	2.137	139.01	0.022	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.383	-0.95	8.00	-0.67	2.241	139.00	0.024	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.195	-0.66	9.84	-0.70	2.053	157.31	0.019	SPLSR ≤ 0.04, Not required
	LTE Band 7	0.798	-0.94	7.94	-0.63	1.656	138.39	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.383	-0.65	10.00	-0.70	2.241	158.90	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 13	1.430	-0.19	9.50	-0.44	2.288	153.83	0.022	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.400	-0.80	9.85	-0.69	2.258	157.44	0.022	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.175	-0.35	9.35	-0.44	2.033	152.32	0.019	SPLSR ≤ 0.04, Not required
	LTE Band 30	0.715	-0.72	7.98	-0.55	1.573	138.69	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 38	0.760	-0.74	11.44	-0.18	1.618	173.24	0.012	SPLSR ≤ 0.04, Not required
	LTE Band 41	0.731	-0.84	7.96	-0.48	1.589	138.51	0.014	SPLSR ≤ 0.04, Not required
LTE Band 66	1.366	-0.95	8.04	-0.66	2.224	139.40	0.024	SPLSR ≤ 0.04, Not required	

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## Top side WWAN + 5G WLAN Aux

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN Aux	0.726	-0.26	-13.94	-0.24	-	-	-	-
	WCDMA Band 2	1.345	-0.95	8.00	-0.68	2.071	219.55	0.014	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.386	-0.80	8.00	-0.68	2.112	219.51	0.014	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.216	-0.81	9.69	-6.97	1.942	245.77	0.011	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.279	-0.95	8.00	-0.69	2.005	219.56	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.383	-0.95	8.00	-0.67	2.109	219.55	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.195	-0.66	9.84	-0.70	1.921	237.88	0.011	SPLSR ≤ 0.04, Not required
	LTE Band 7	0.798	-0.94	7.94	-0.63	1.524	218.94	0.009	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.383	-0.65	10.00	-0.70	2.109	239.48	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 13	1.430	-0.19	9.50	-0.44	2.156	234.41	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.400	-0.80	9.85	-0.69	2.126	238.00	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.175	-0.35	9.35	-0.44	1.901	232.91	0.011	SPLSR ≤ 0.04, Not required
	LTE Band 30	0.715	-0.72	7.98	-0.55	1.441	219.27	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 38	0.760	-0.74	11.44	-0.18	1.486	253.85	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 41	0.731	-0.84	7.96	-0.48	1.457	219.09	0.008	SPLSR ≤ 0.04, Not required
LTE Band 66	1.366	-0.95	8.04	-0.66	2.092	219.95	0.014	SPLSR ≤ 0.04, Not required	

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Top side WWAN + BT

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	Bluetooth	0.213	-0.32	-14.06	-0.23	-	-	-	-
	WCDMA Band 2	1.345	-0.95	8.00	-0.68	1.558	220.74	0.009	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.386	-0.80	8.00	-0.68	1.599	220.70	0.009	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.216	-0.81	9.69	-6.97	1.429	246.94	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.279	-0.95	8.00	-0.69	1.492	220.74	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.383	-0.95	8.00	-0.67	1.596	220.73	0.009	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.195	-0.66	9.84	-0.70	1.408	239.07	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 7	0.798	-0.94	7.94	-0.63	1.011	220.12	0.005	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.383	-0.65	10.00	-0.70	1.596	240.67	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 13	1.430	-0.19	9.50	-0.44	1.643	235.61	0.009	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.400	-0.80	9.85	-0.69	1.613	239.19	0.009	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.175	-0.35	9.35	-0.44	1.388	234.11	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 30	0.715	-0.72	7.98	-0.55	0.928	220.46	0.004	SPLSR ≤ 0.04, Not required
	LTE Band 38	0.760	-0.74	11.44	-0.18	0.973	255.03	0.004	SPLSR ≤ 0.04, Not required
	LTE Band 41	0.731	-0.84	7.96	-0.48	0.944	220.28	0.004	SPLSR ≤ 0.04, Not required
LTE Band 66	1.366	-0.95	8.04	-0.66	1.579	221.13	0.009	SPLSR ≤ 0.04, Not required	

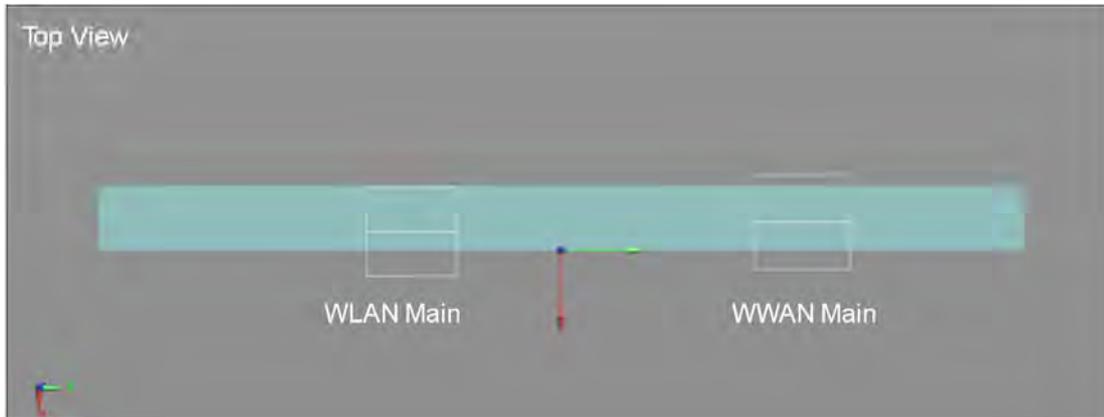
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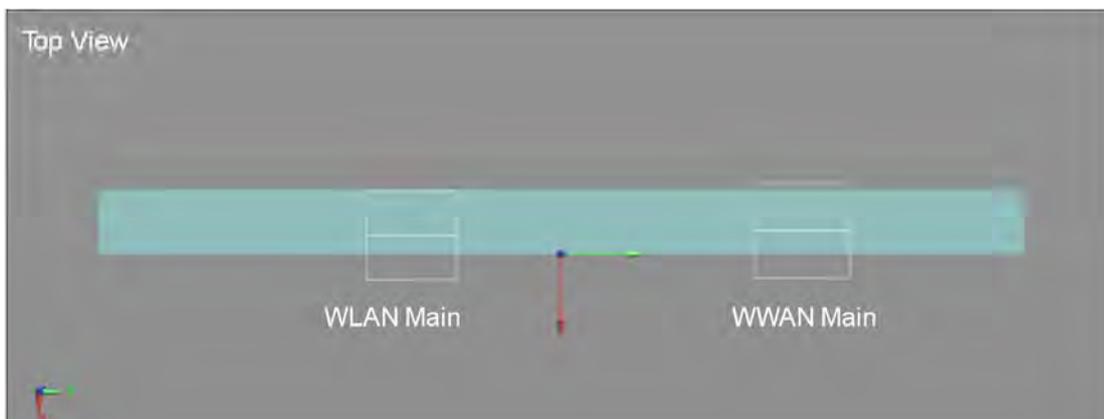
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## Top\_2.4G\_Main→WWAN

### WCDMA Band 2



### WCDMA Band 4



### WCDMA Band 5

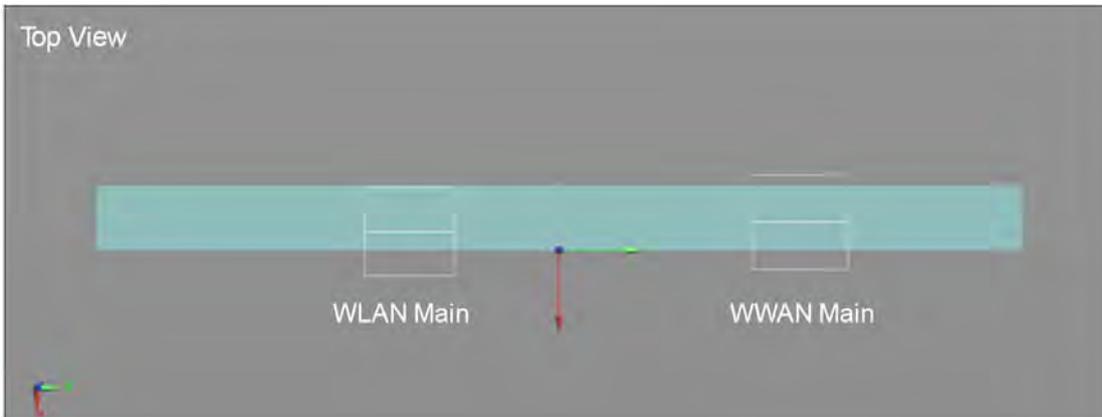


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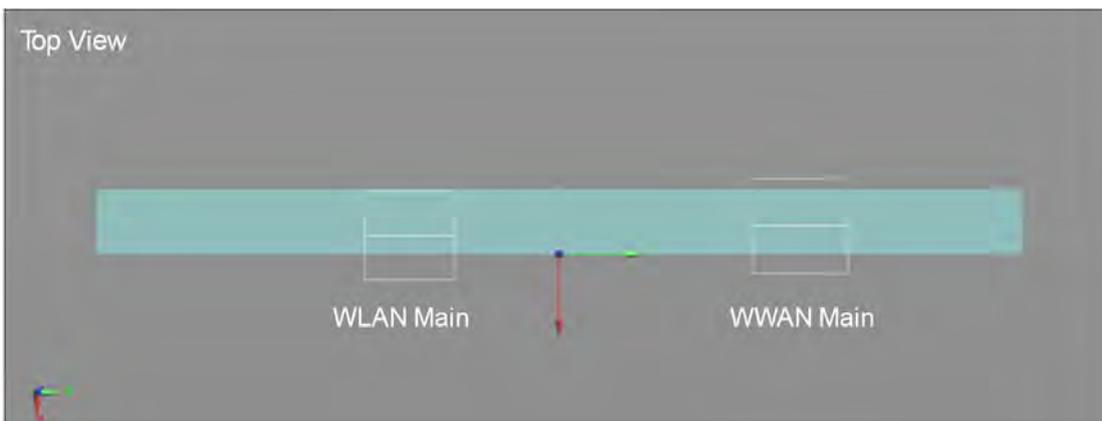
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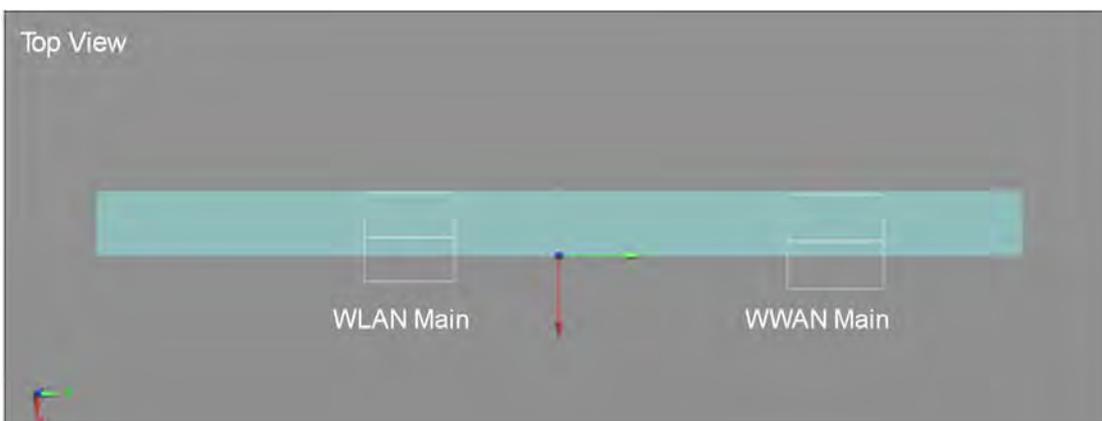
## LTE Band 2



## LTE Band 4



## LTE Band 5

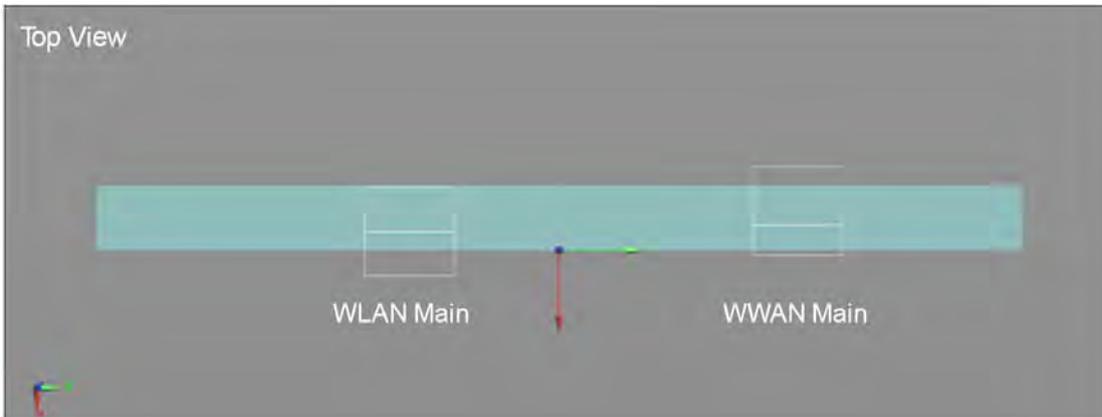


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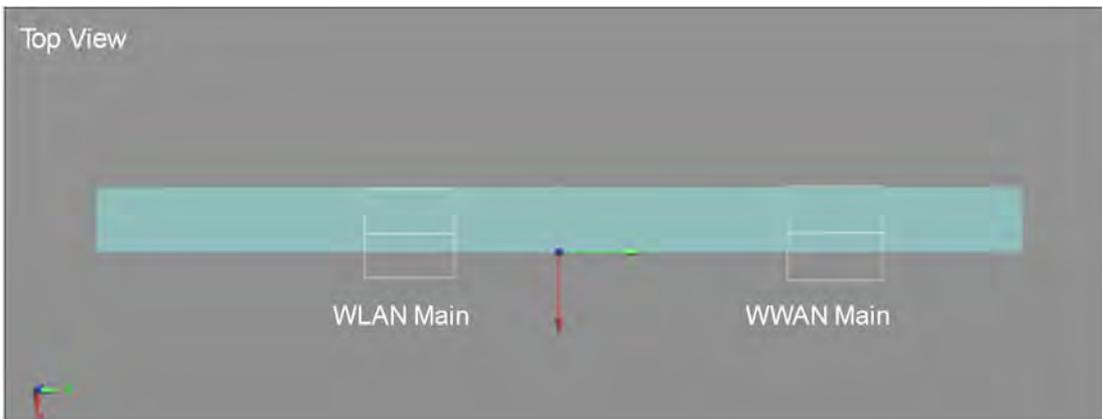
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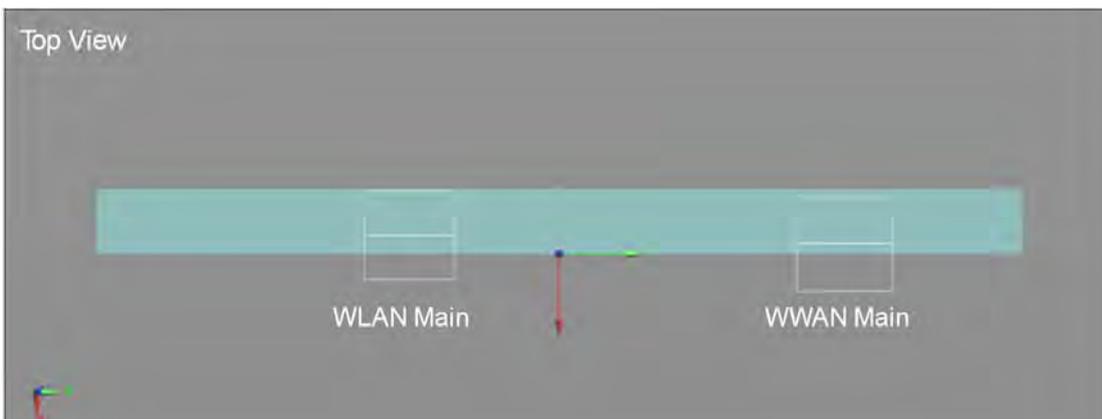
## LTE Band 7



## LTE Band 12



## LTE Band 13

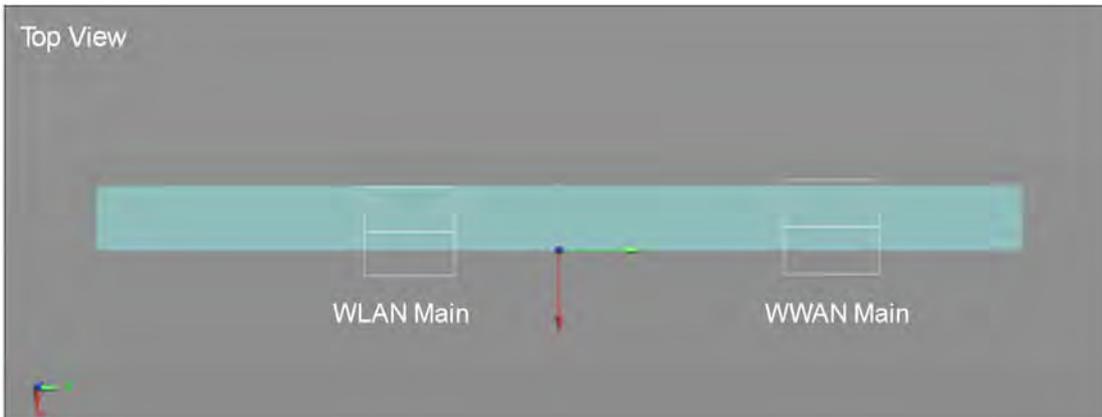


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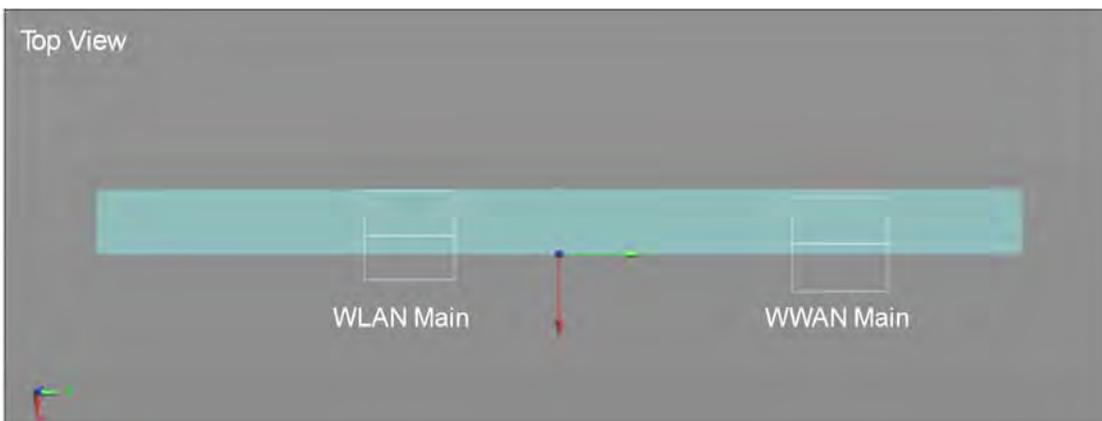
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### LTE Band 17



### LTE Band 26



### LTE Band 30

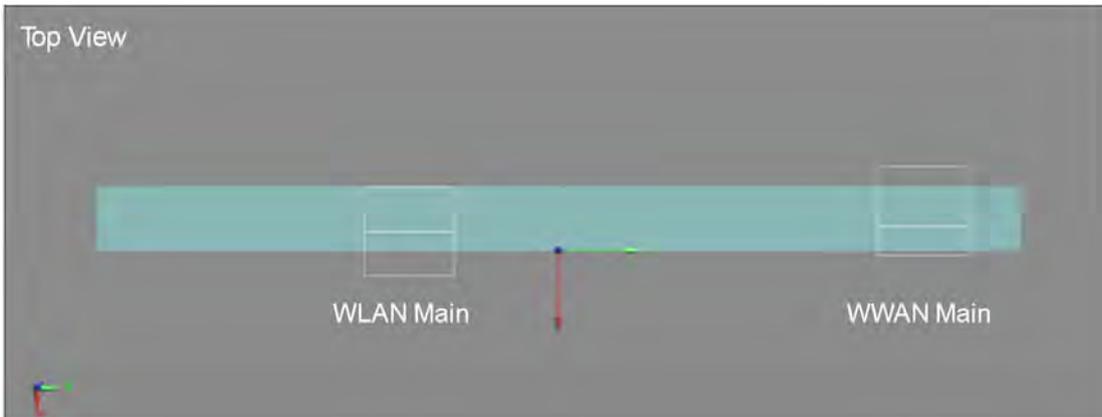


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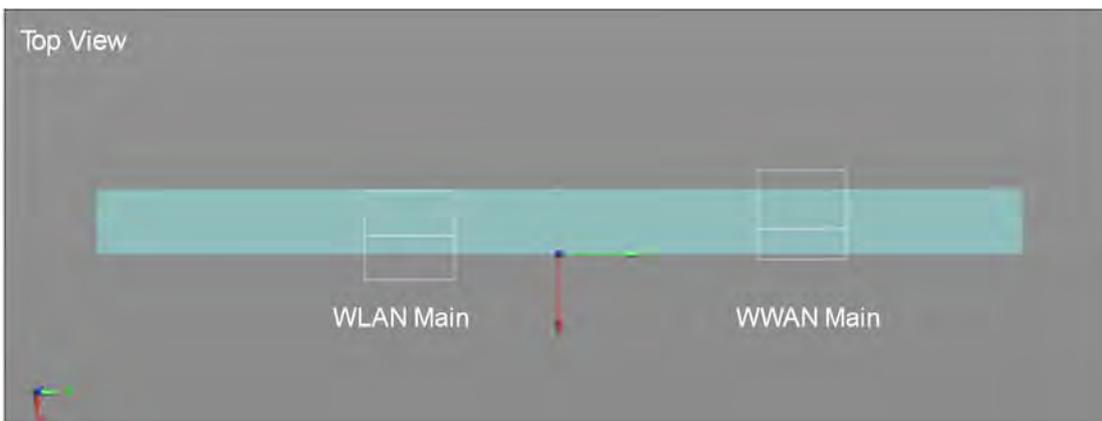
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### LTE Band 38



### LTE Band 41



### LTE Band 66



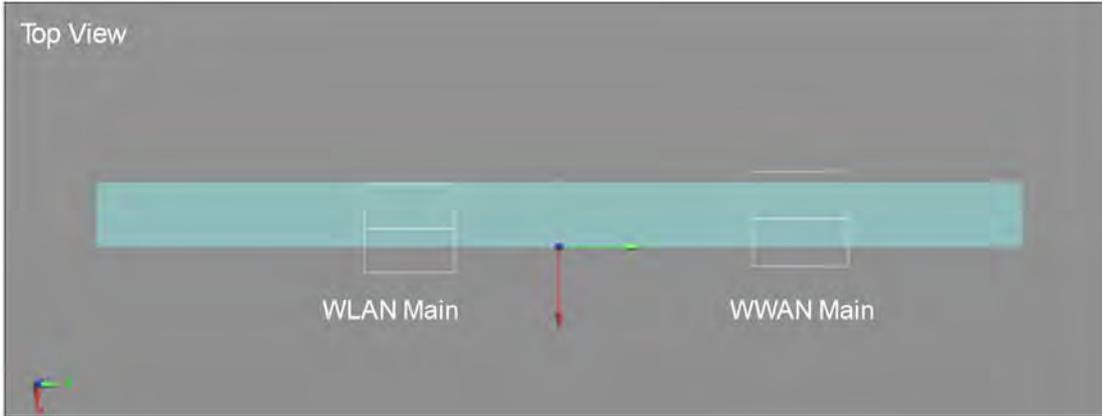
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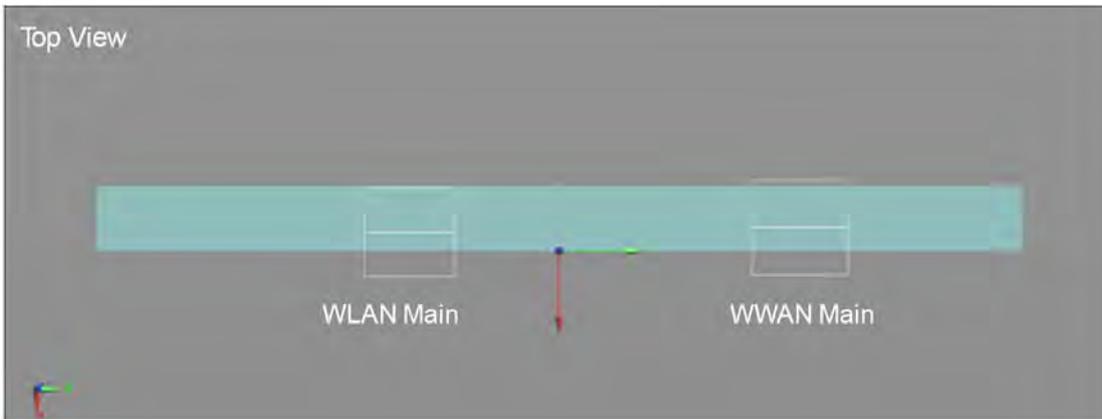
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Top\_2.4G\_Aux→WWAN

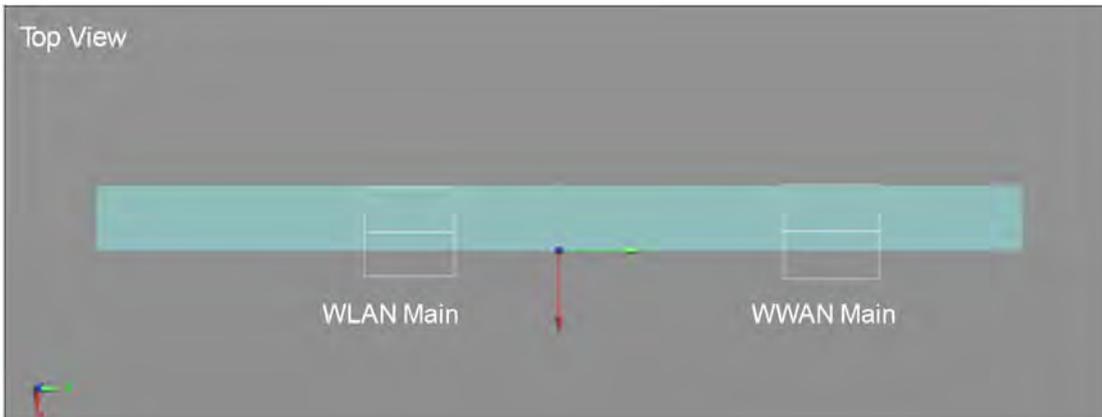
WCDMA Band 2



WCDMA Band 4



WCDMA Band 5

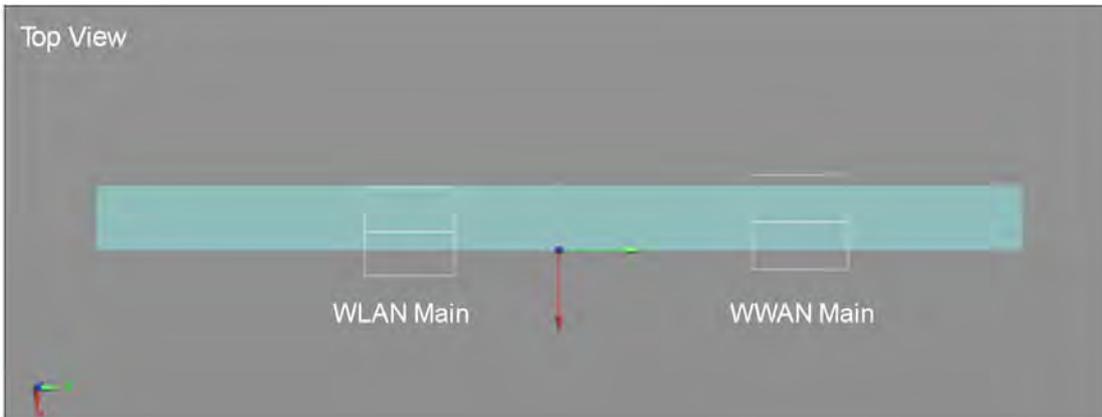


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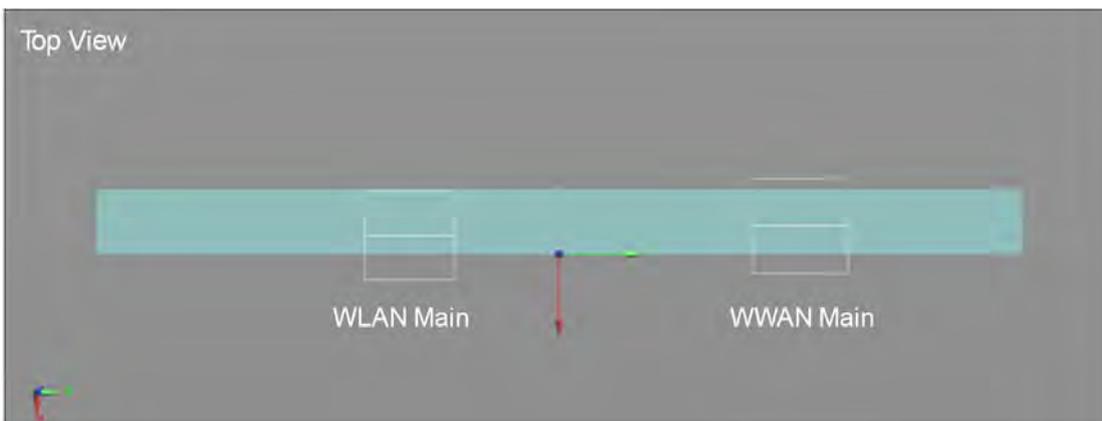
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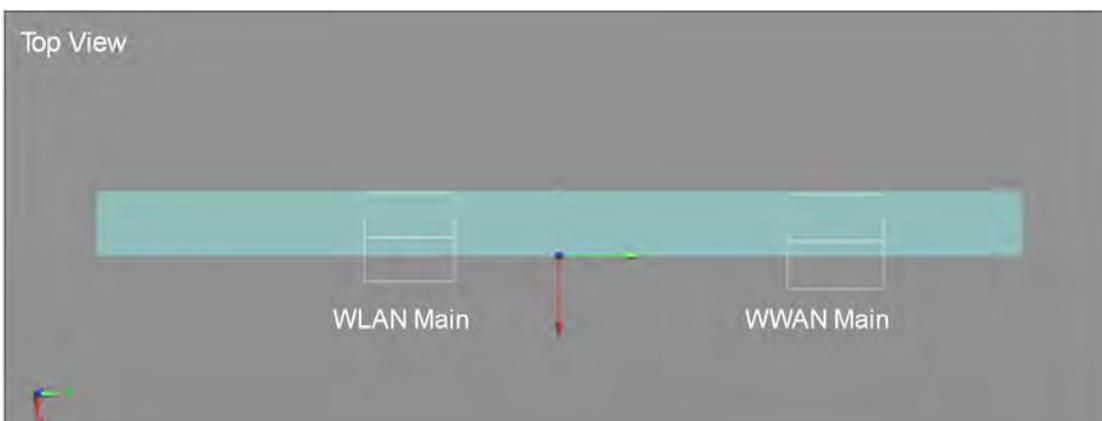
## LTE Band 2



## LTE Band 4



## LTE Band 5

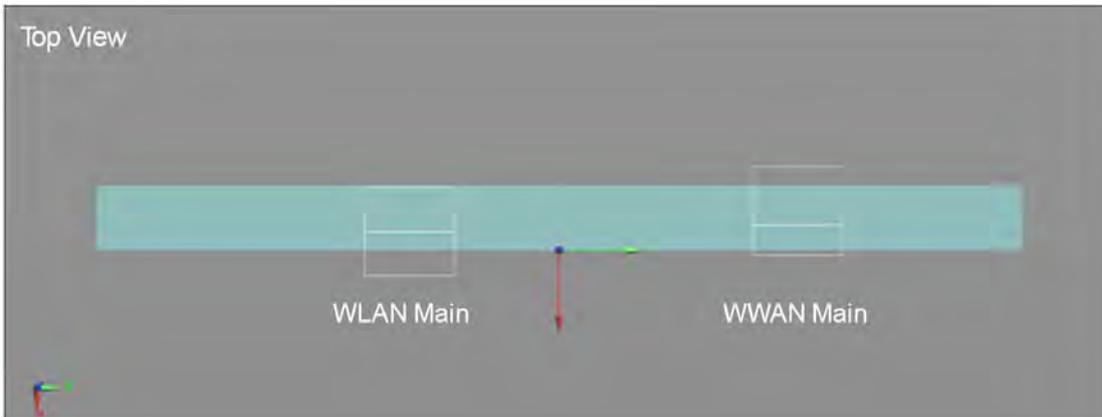


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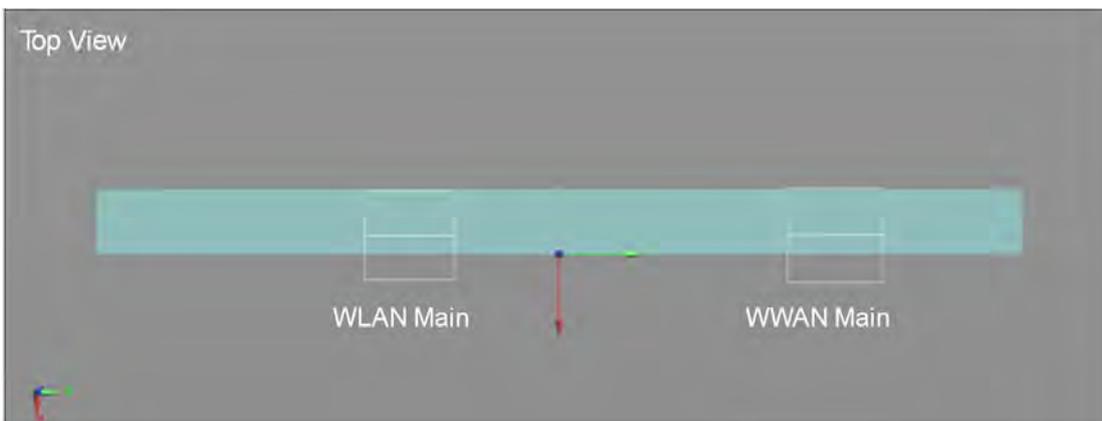
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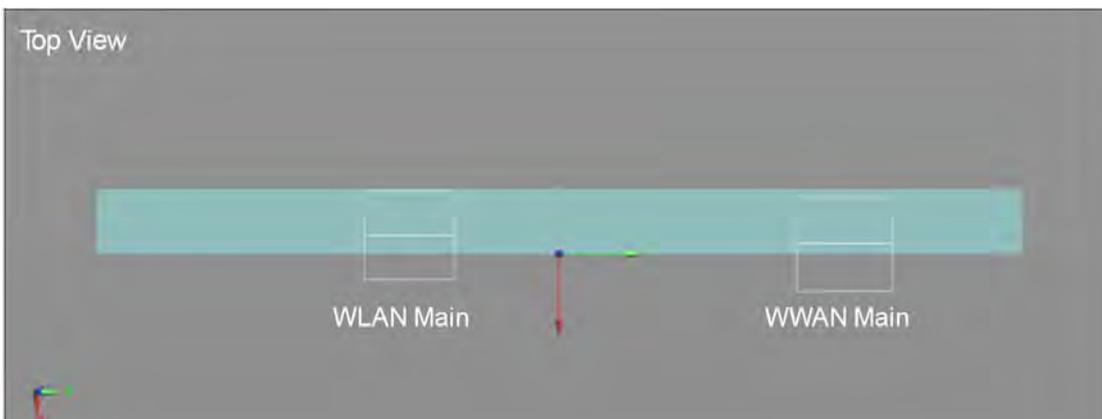
## LTE Band 7



## LTE Band 12



## LTE Band 13

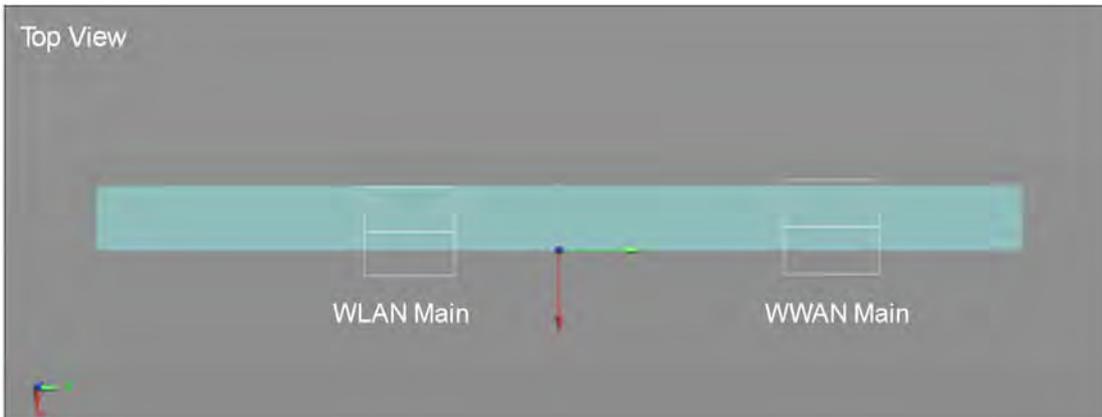


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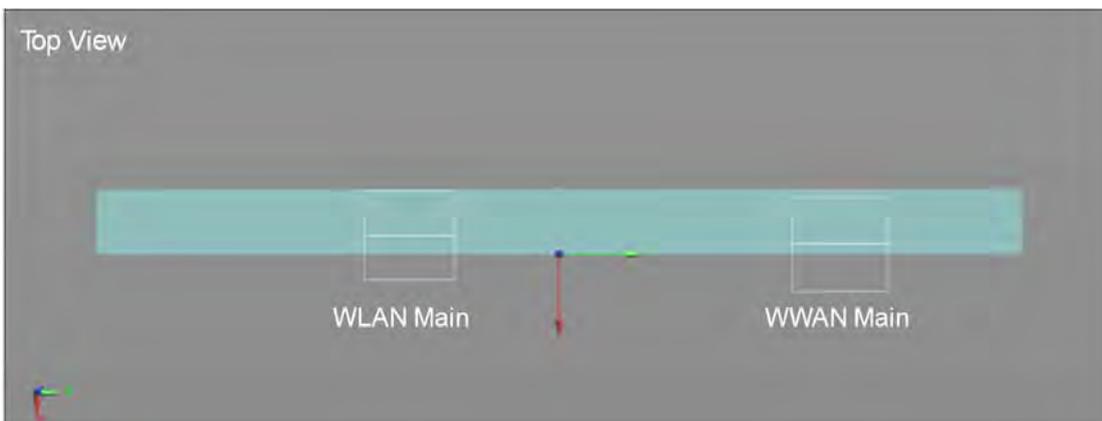
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### LTE Band 17



### LTE Band 26



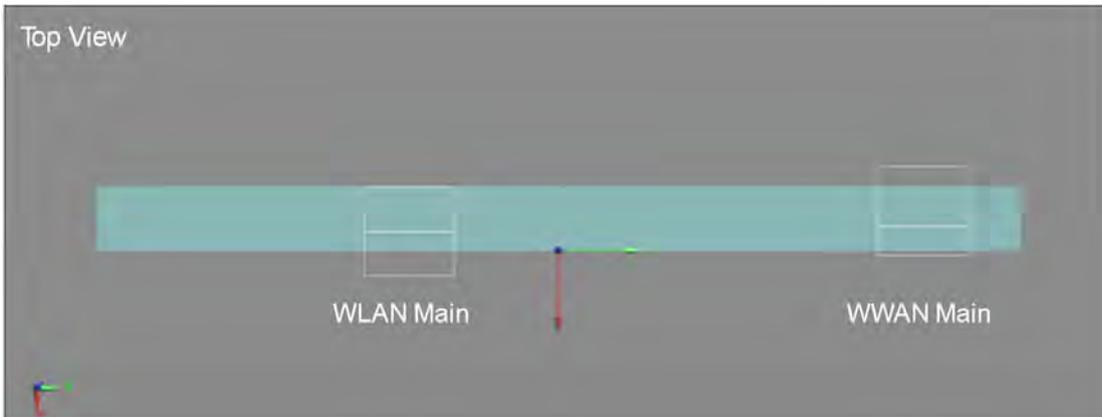
### LTE Band 30



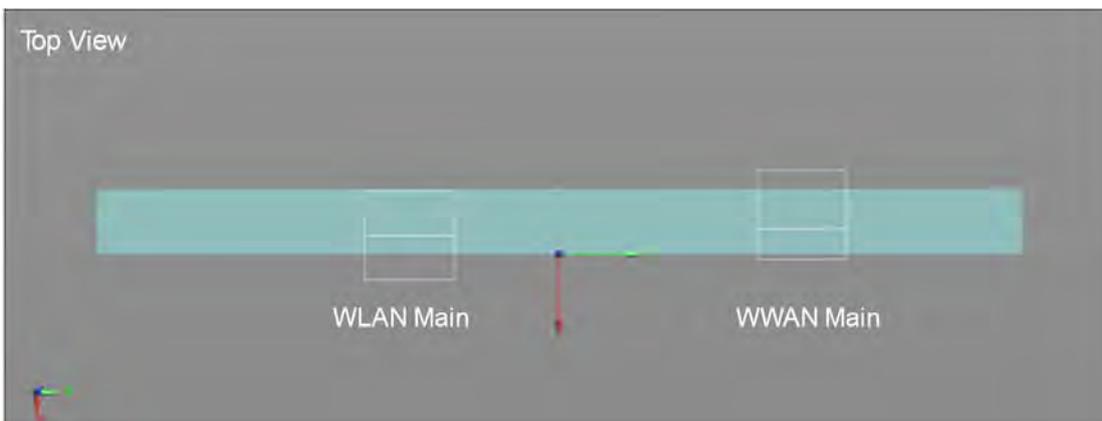
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### LTE Band 38



### LTE Band 41



### LTE Band 66



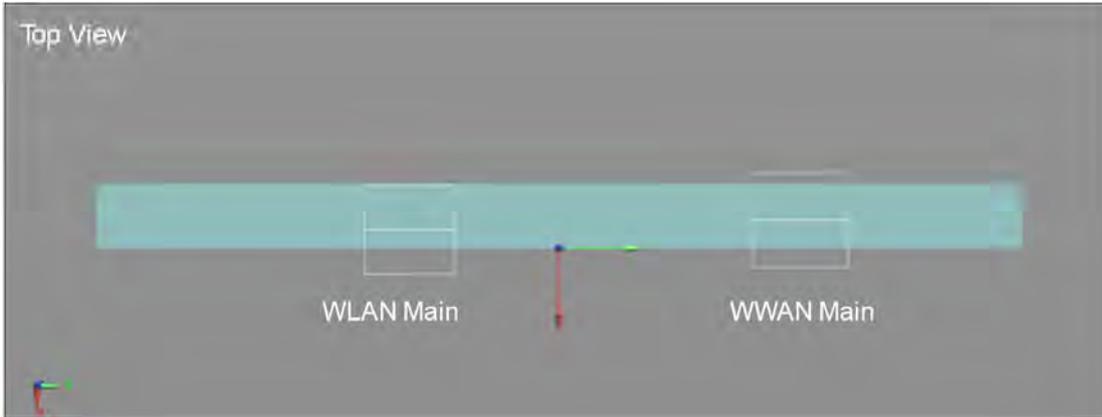
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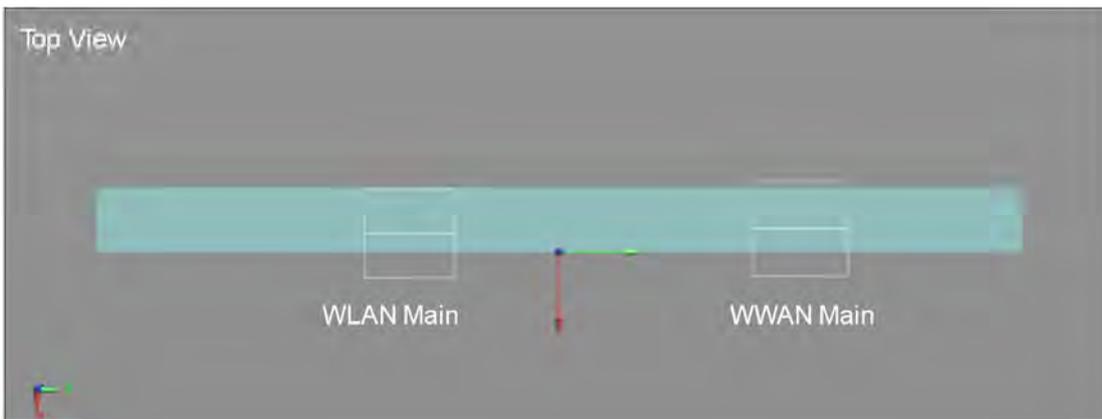
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## Top\_5G\_Main→WWAN

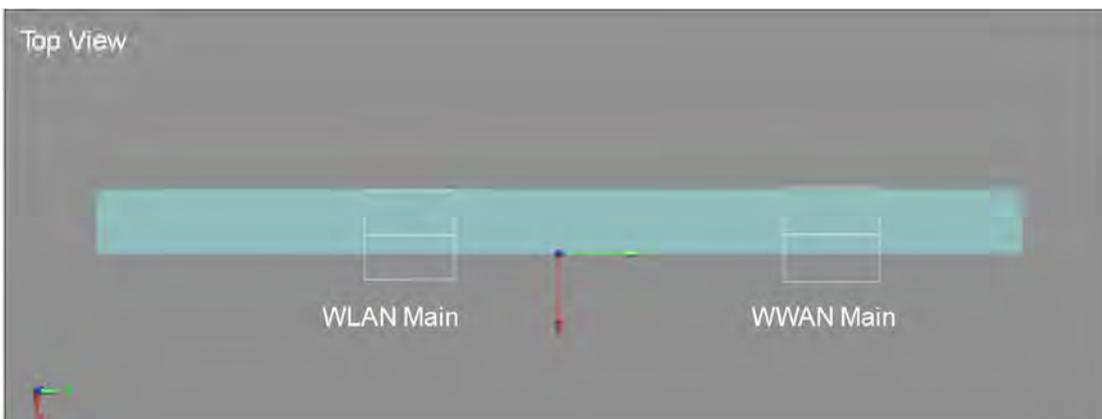
### WCDMA Band 2



### WCDMA Band 4



### WCDMA Band 5

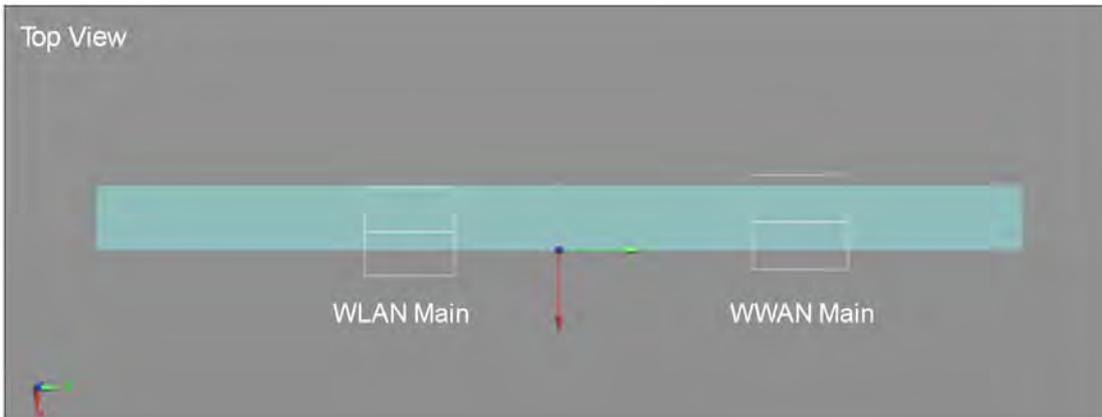


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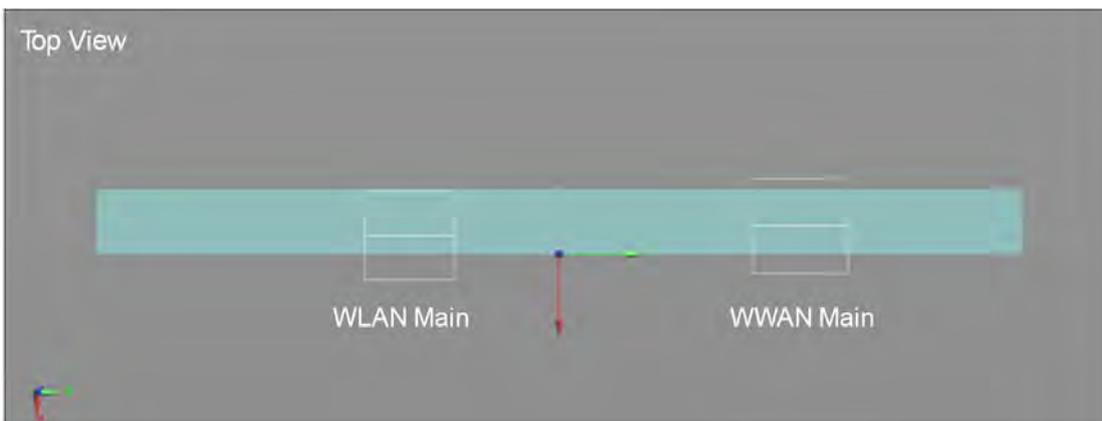
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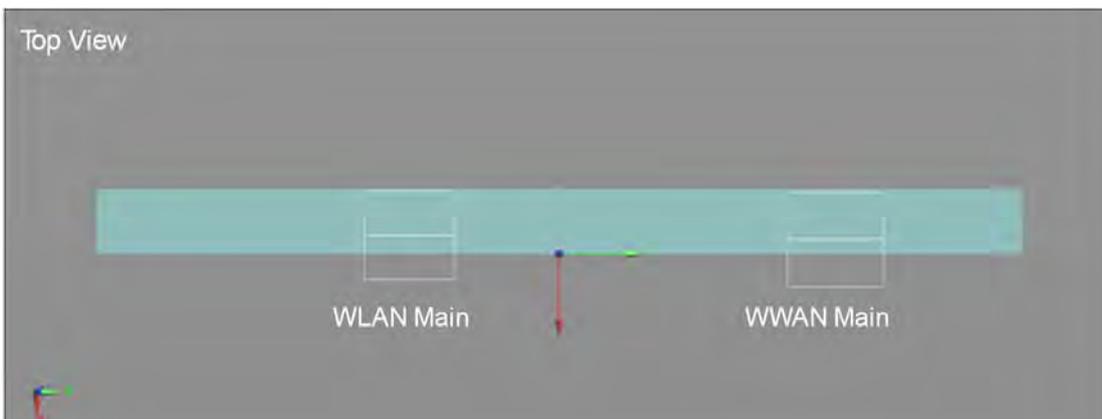
## LTE Band 2



## LTE Band 4



## LTE Band 5

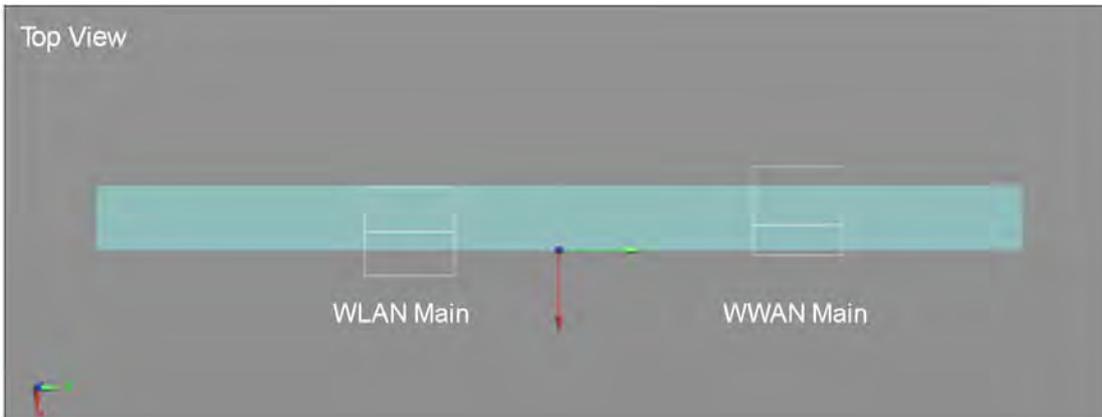


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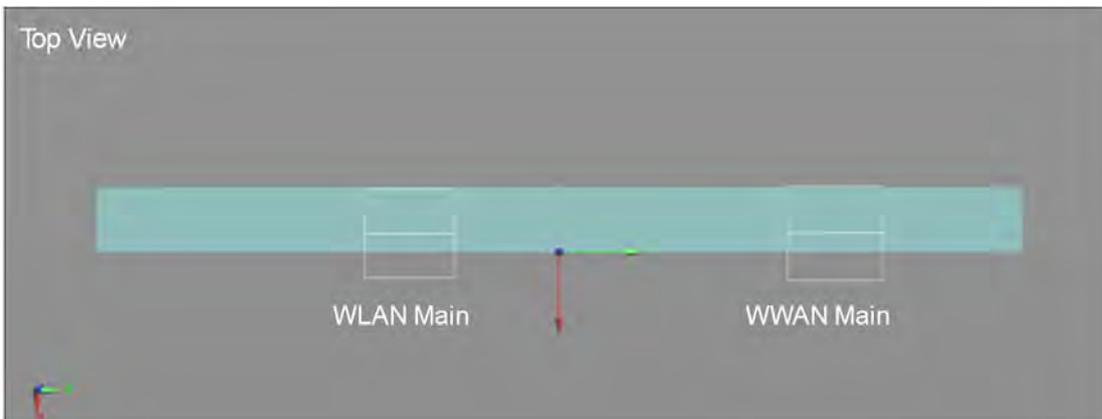
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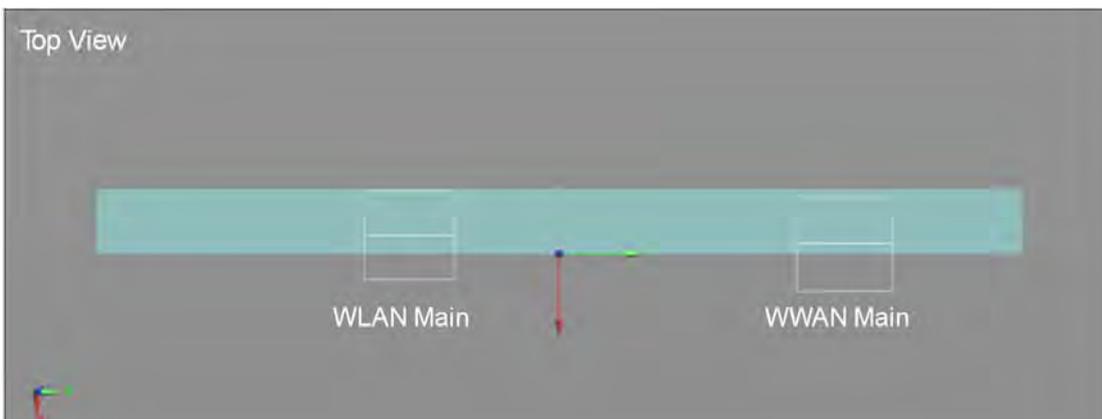
### LTE Band 7



### LTE Band 12



### LTE Band 13

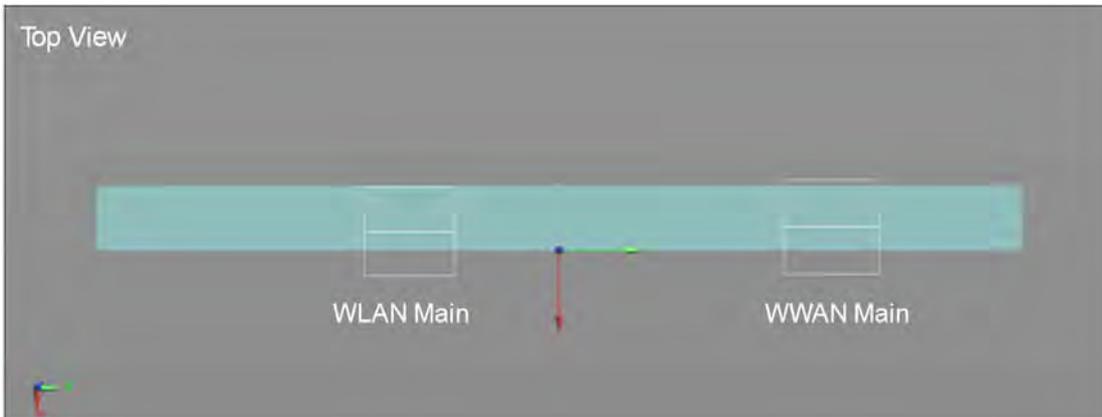


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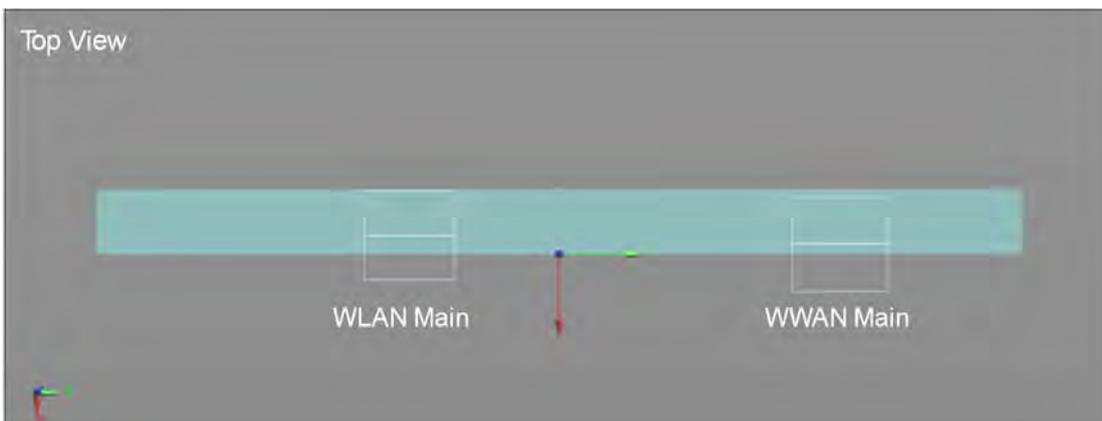
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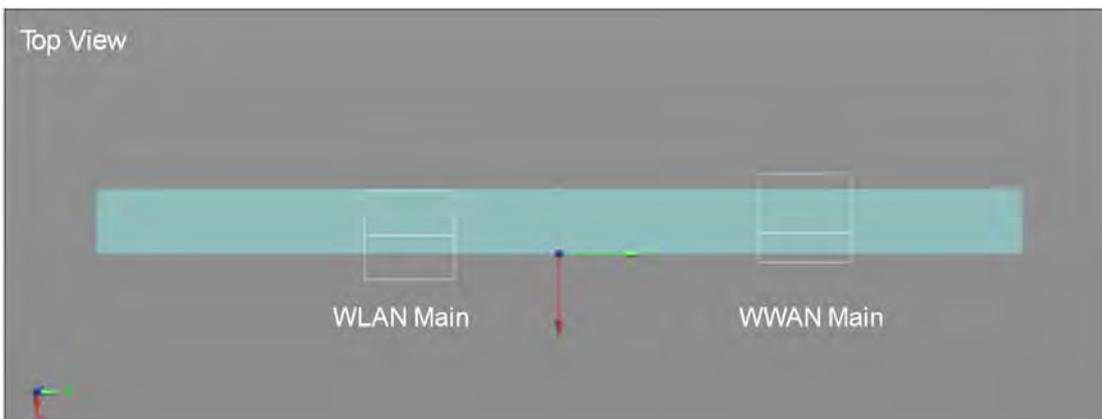
### LTE Band 17



### LTE Band 26



### LTE Band 30

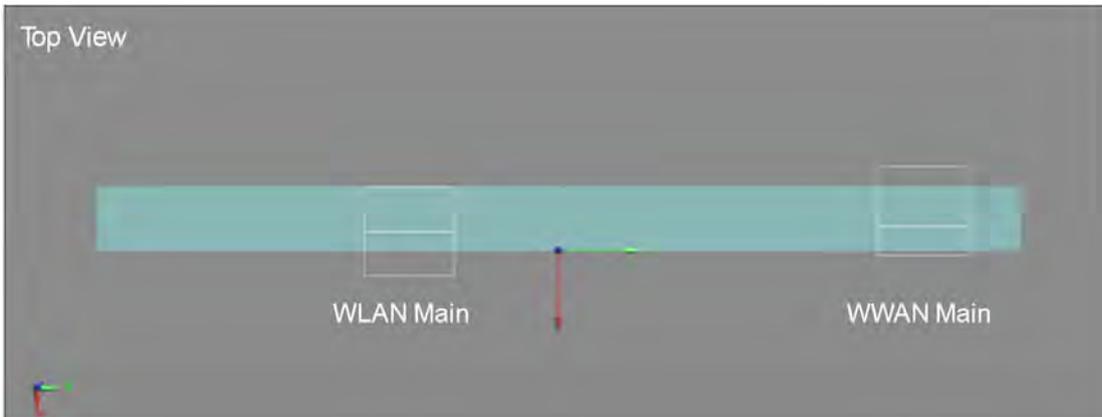


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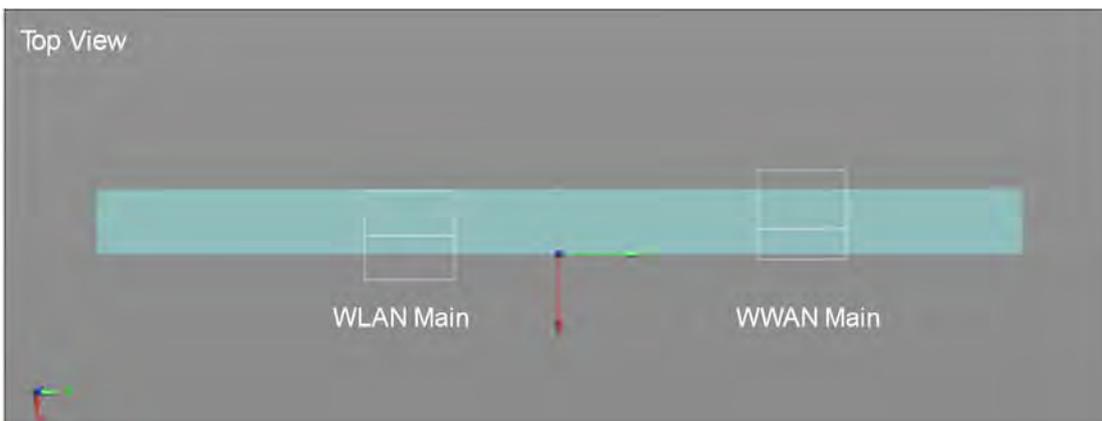
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### LTE Band 38



### LTE Band 41



### LTE Band 66



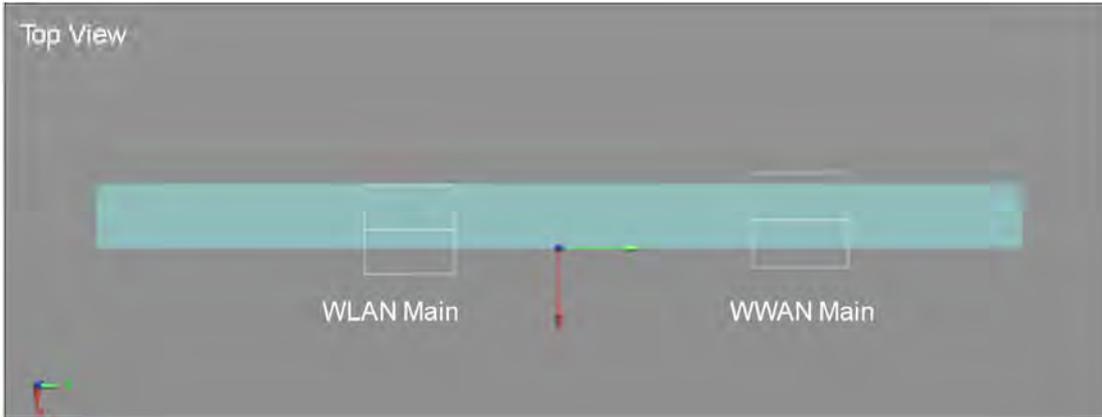
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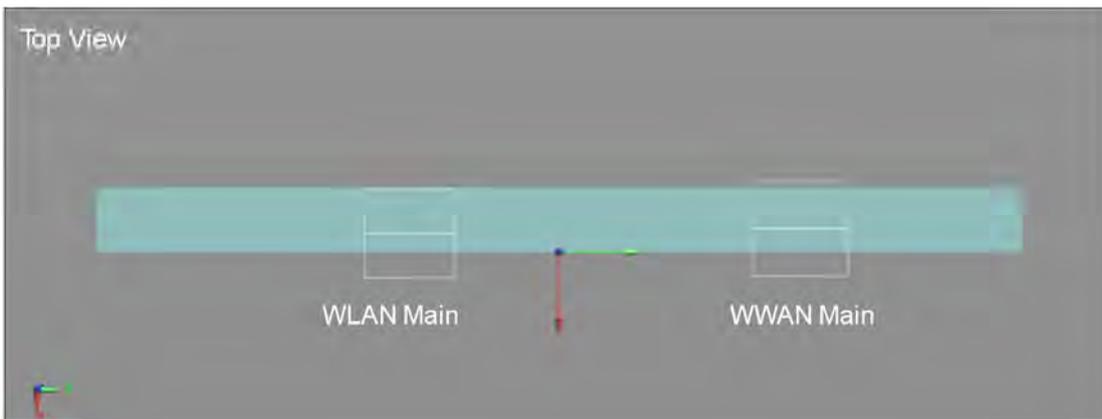
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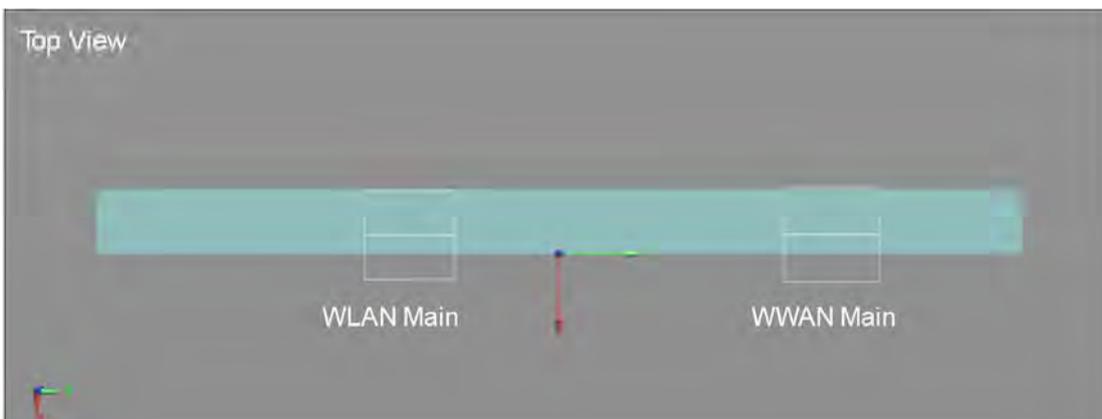
### WCDMA Band 2



### WCDMA Band 4



### WCDMA Band 5

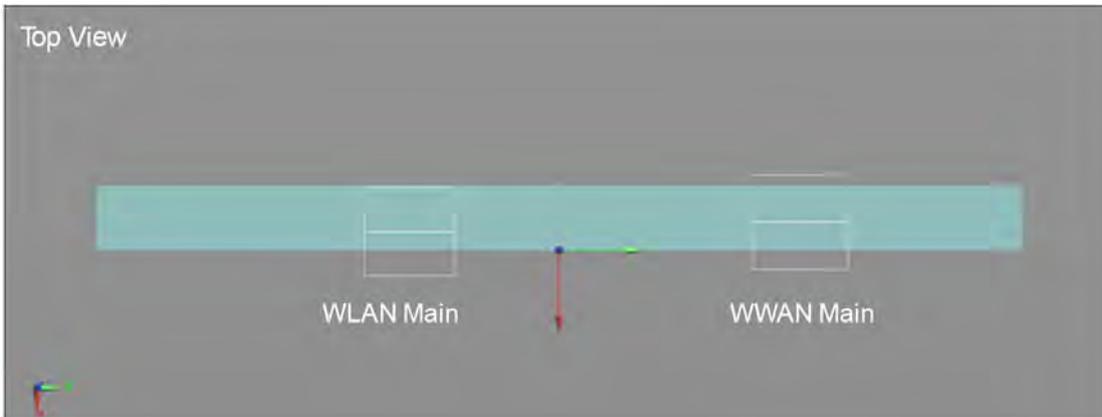


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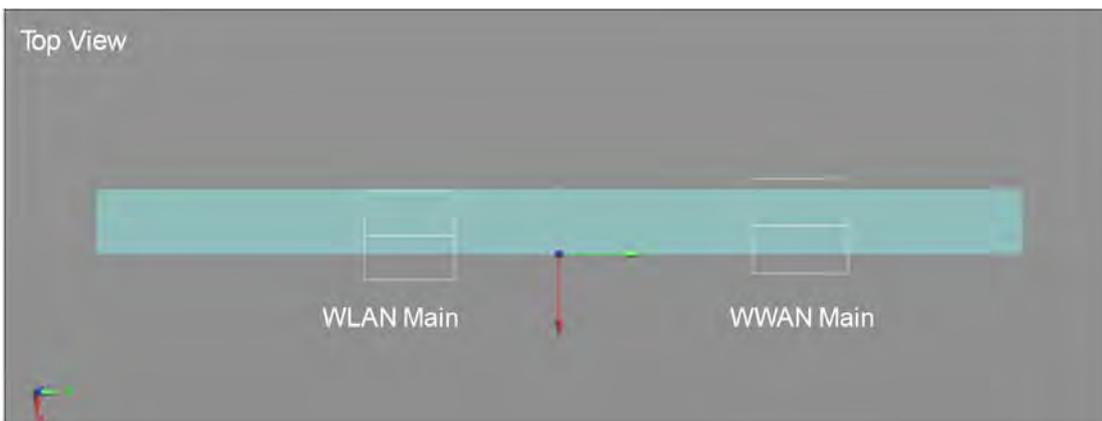
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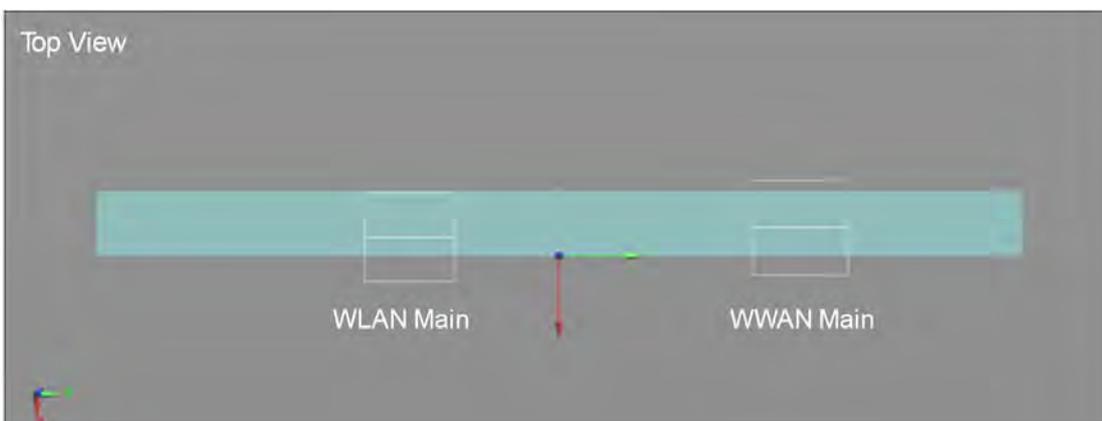
### LTE Band 2



### LTE Band 4



### LTE Band 5

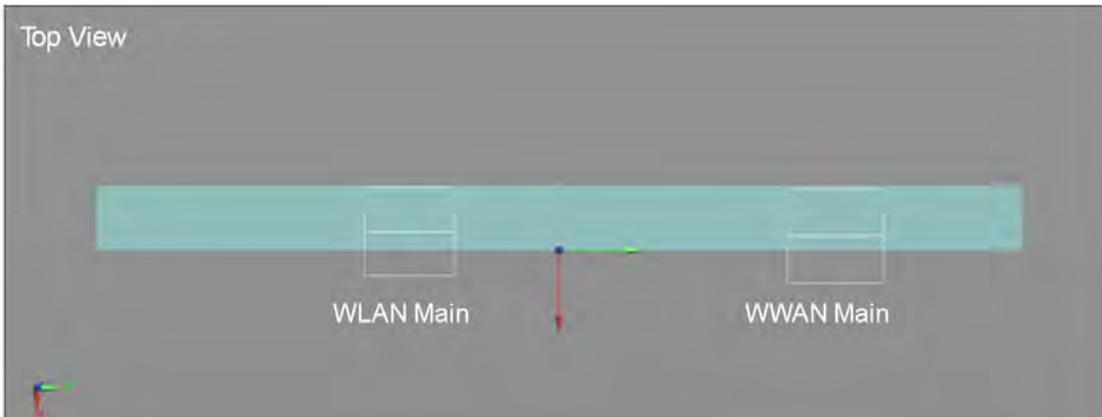


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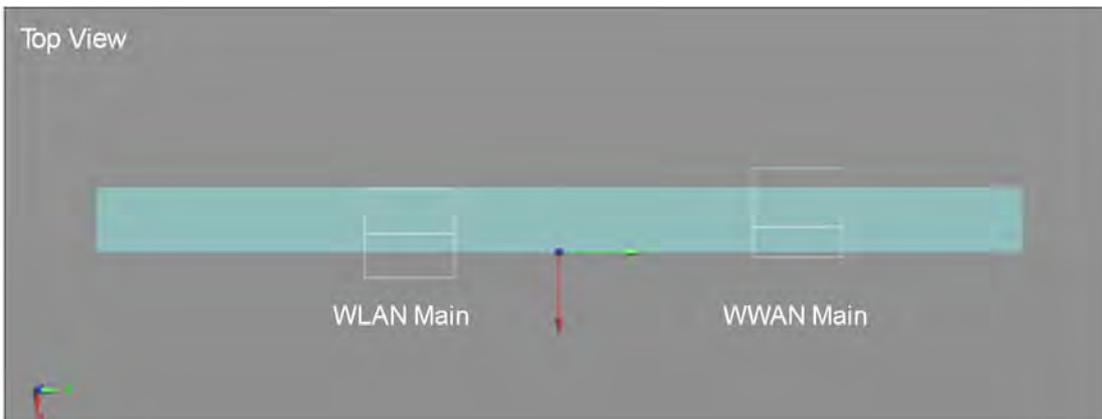
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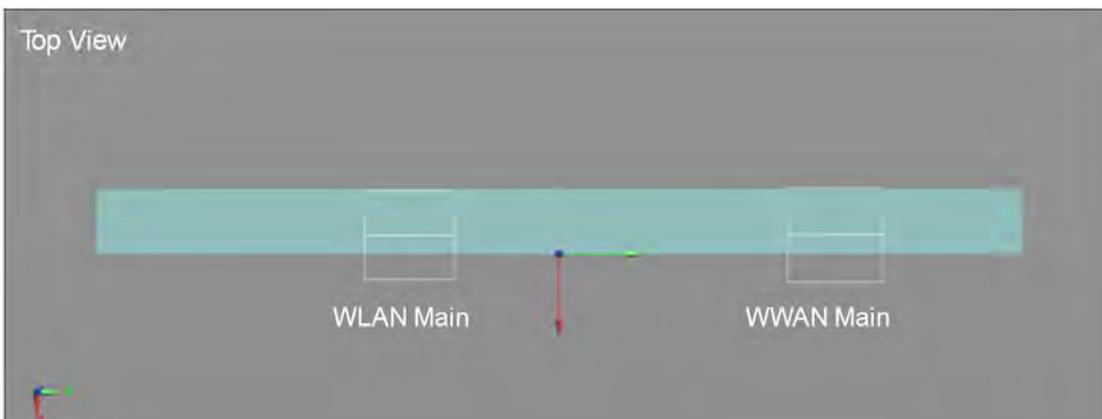
## LTE Band 7



## LTE Band 12



## LTE Band 13

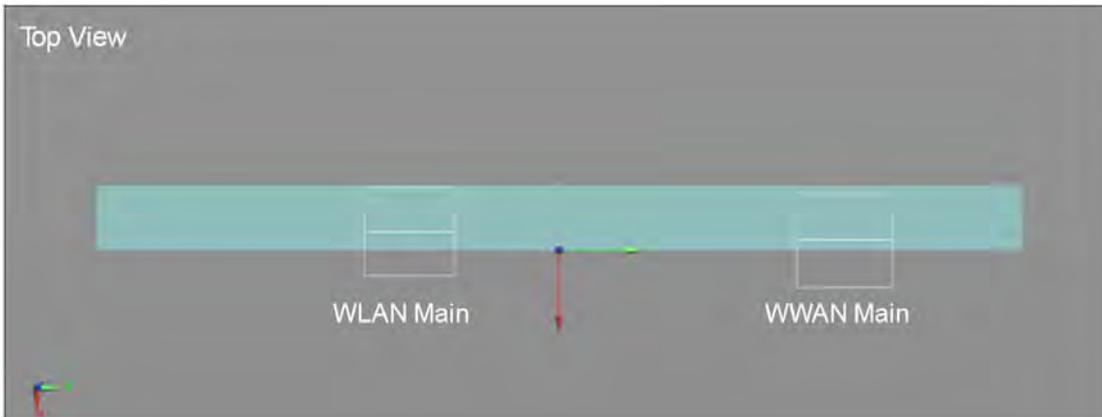


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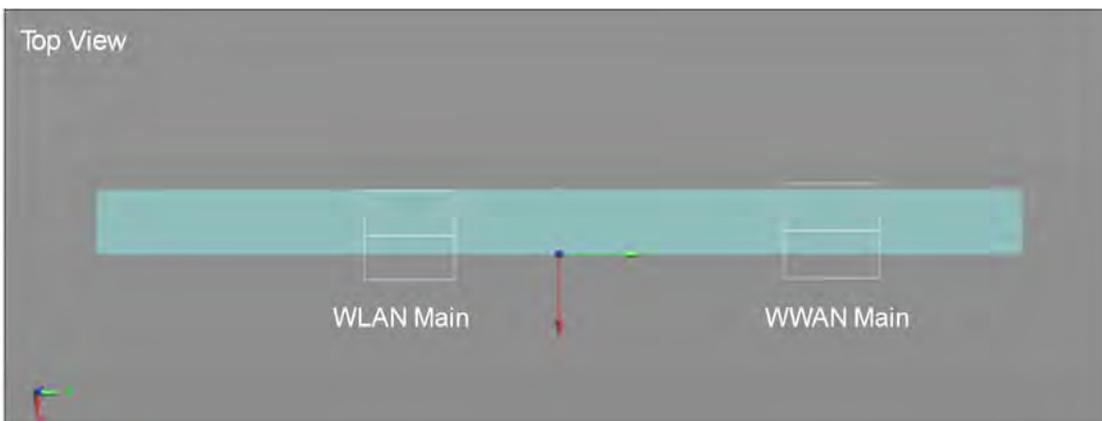
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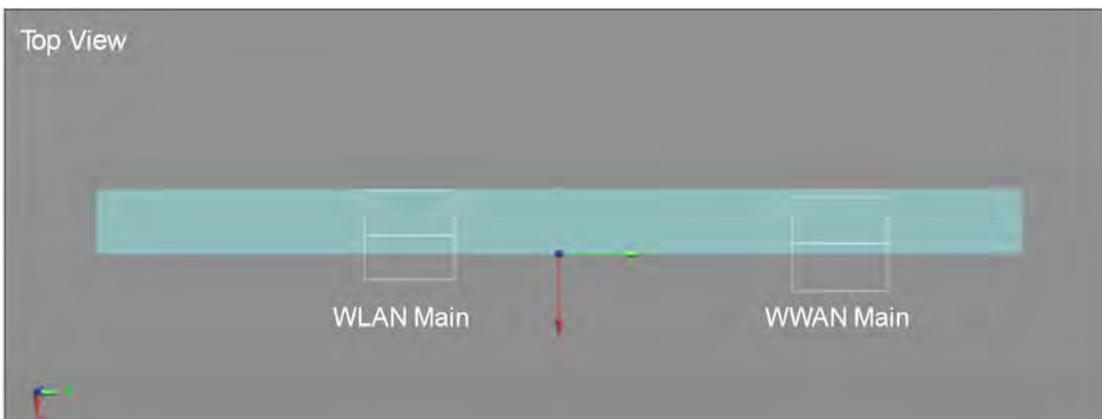
## LTE Band 17



## LTE Band 26



## LTE Band 30

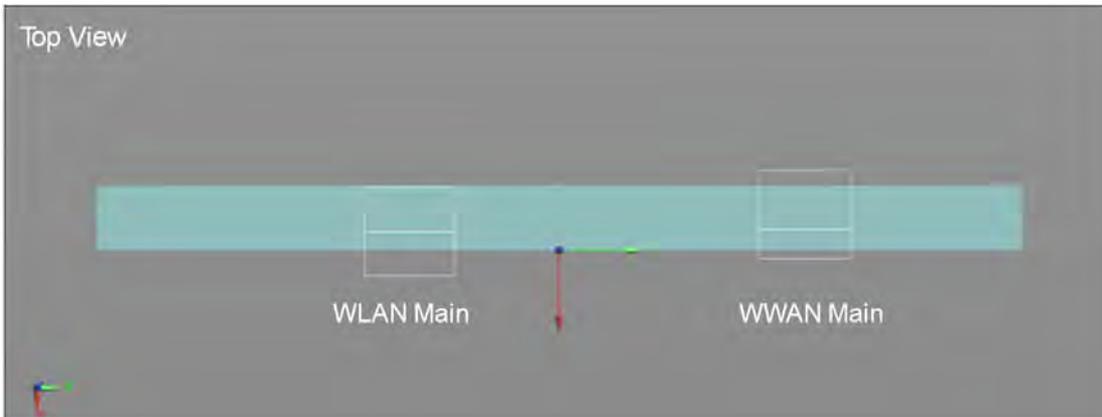


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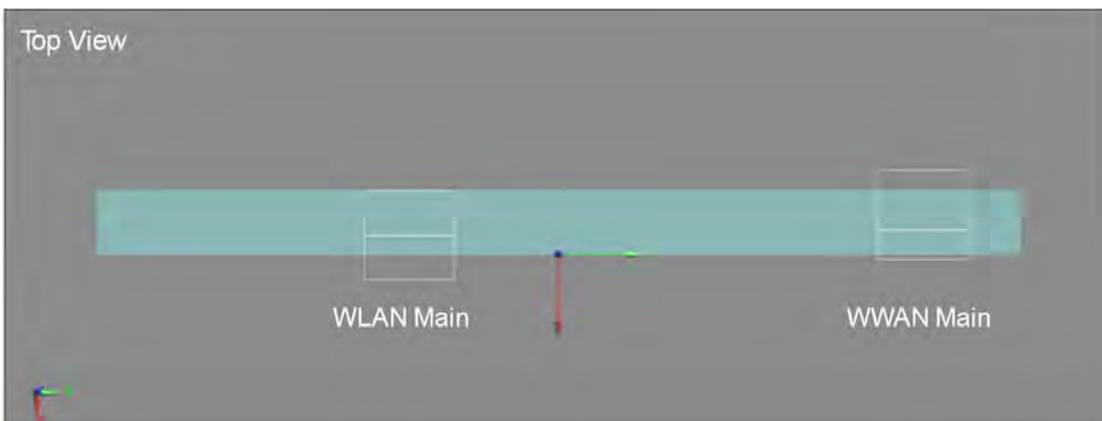
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## LTE Band 38



## LTE Band 41



## LTE Band 66



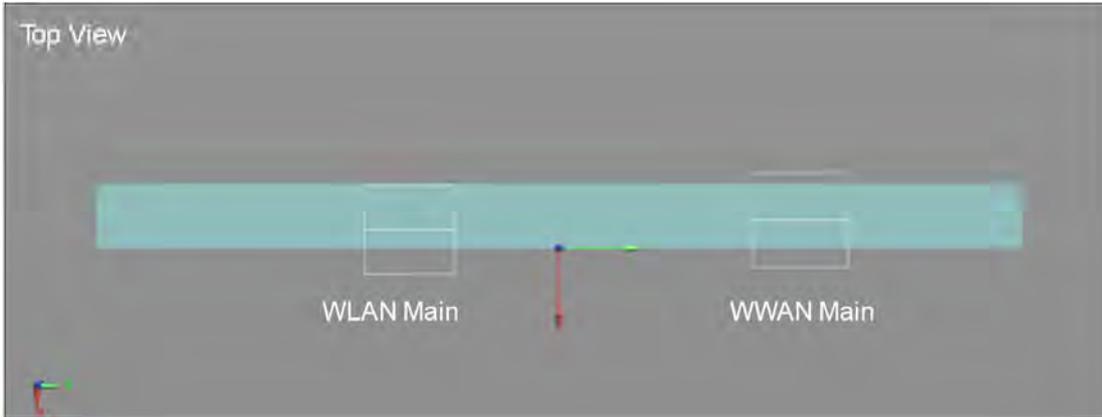
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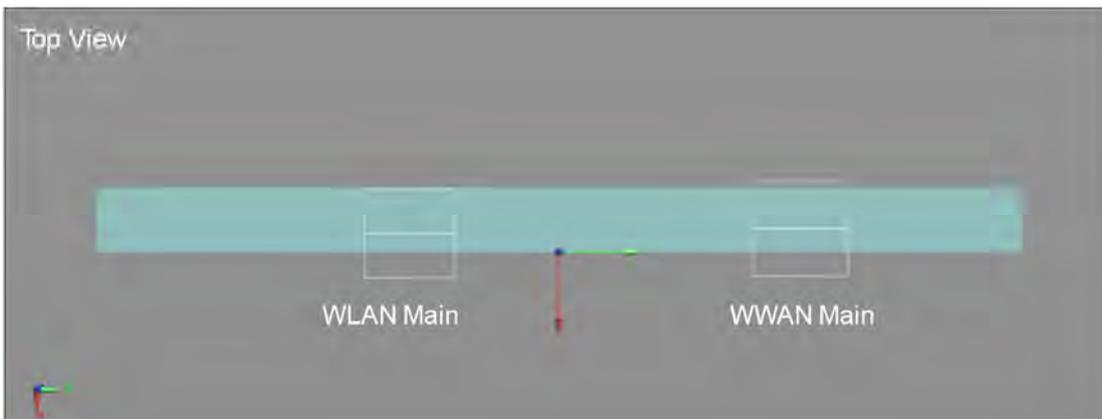
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Top\_BT→WWAN

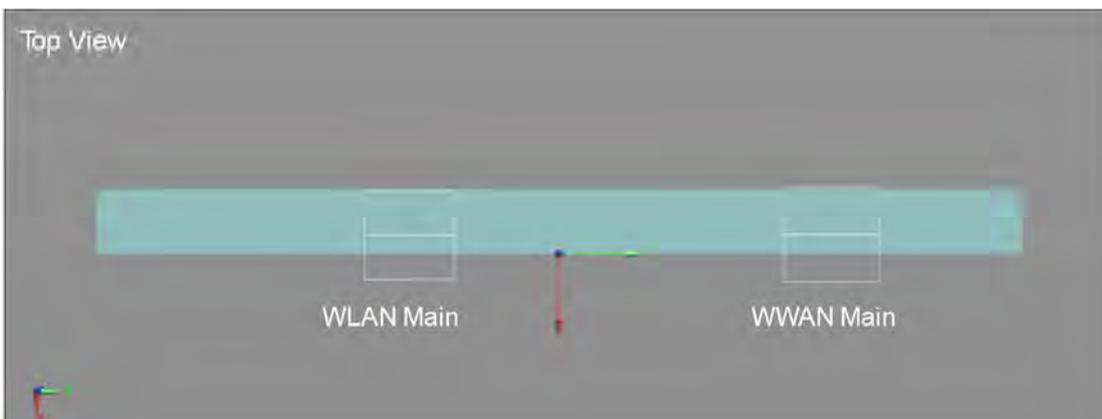
WCDMA Band 2



WCDMA Band 4



WCDMA Band 5

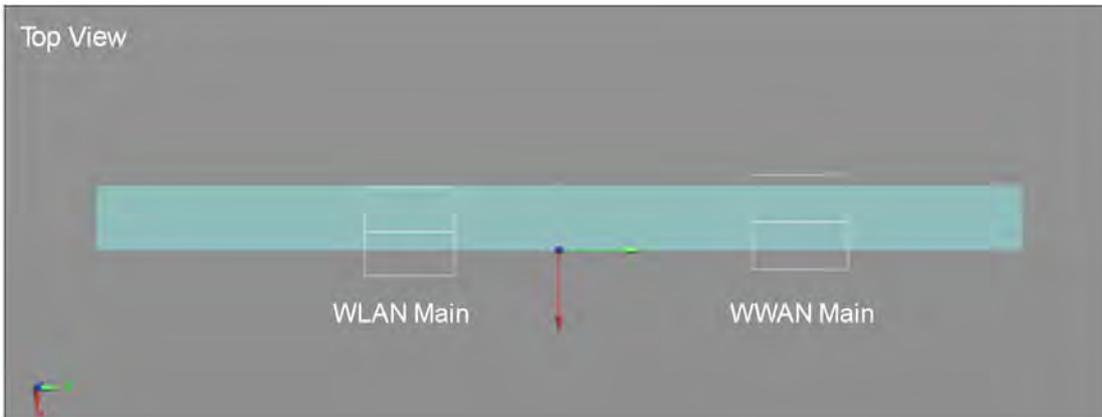


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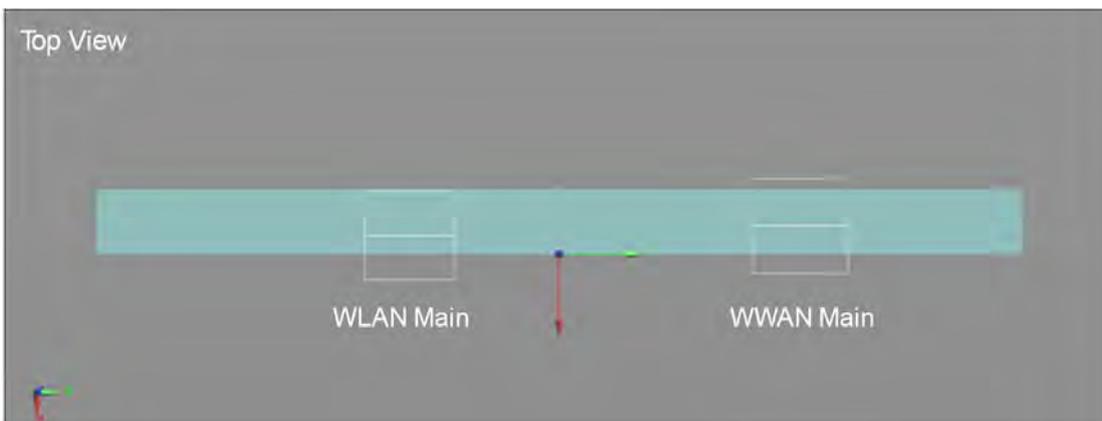
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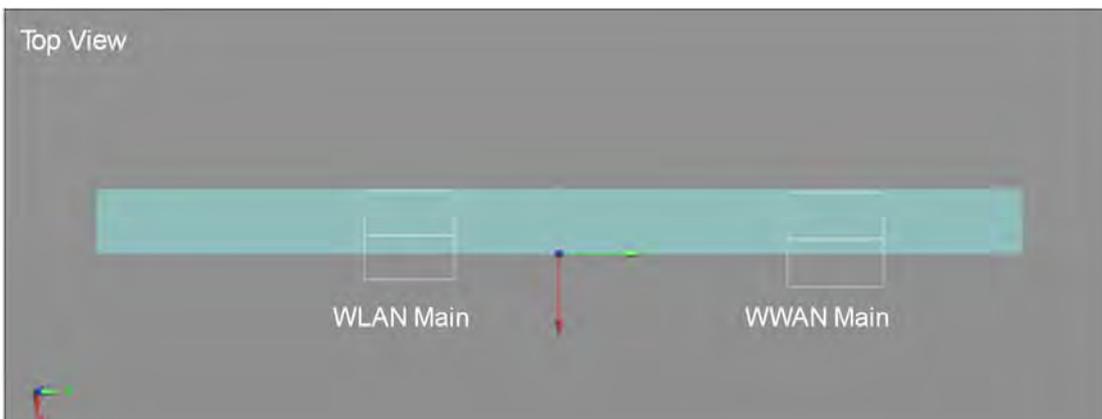
## LTE Band 2



## LTE Band 4



## LTE Band 5

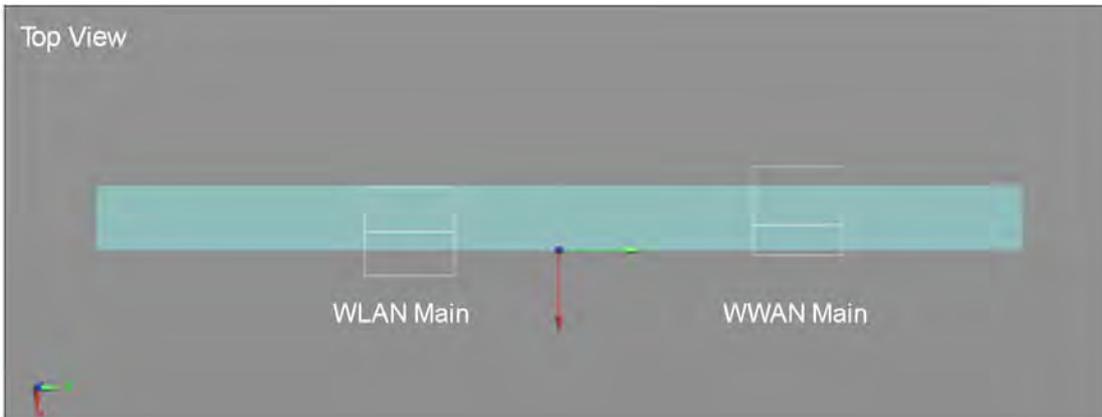


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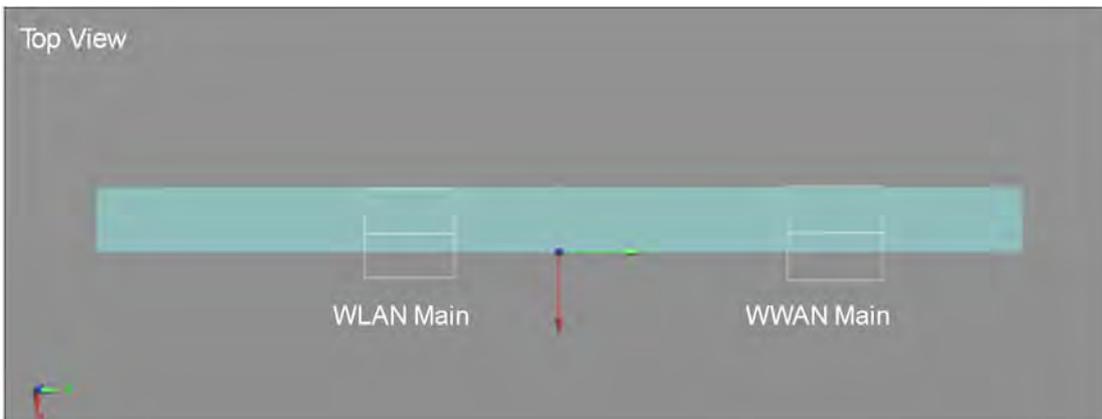
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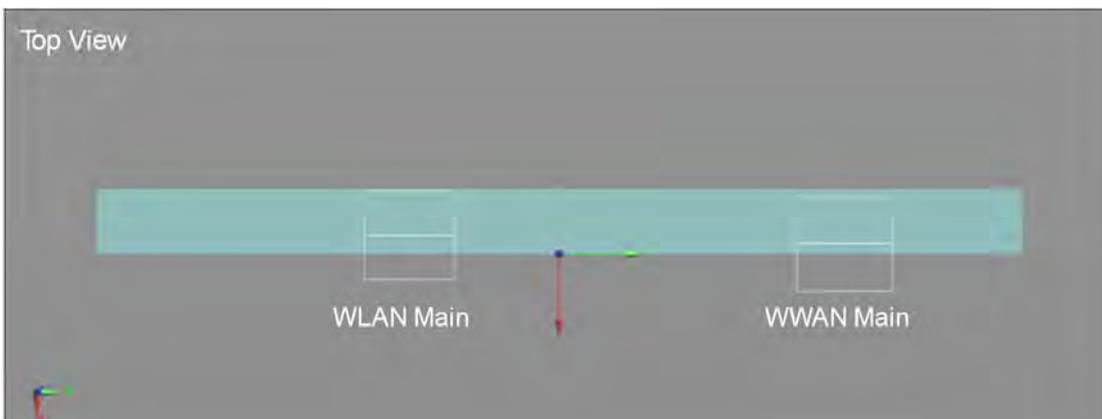
## LTE Band 7



## LTE Band 12



## LTE Band 13

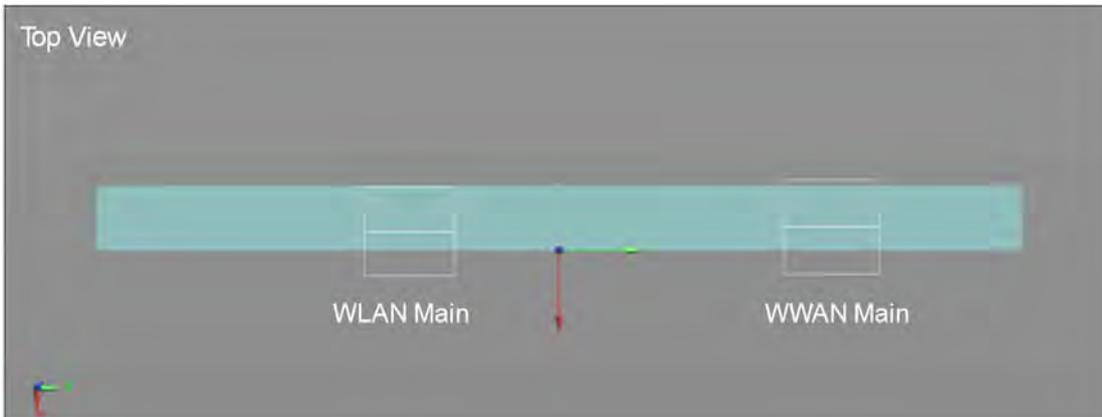


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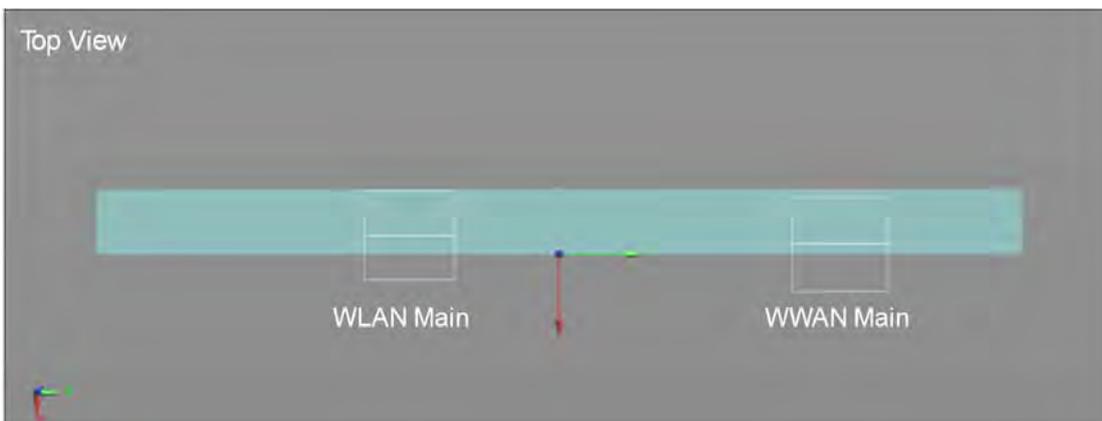
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### LTE Band 17



### LTE Band 26



### LTE Band 30

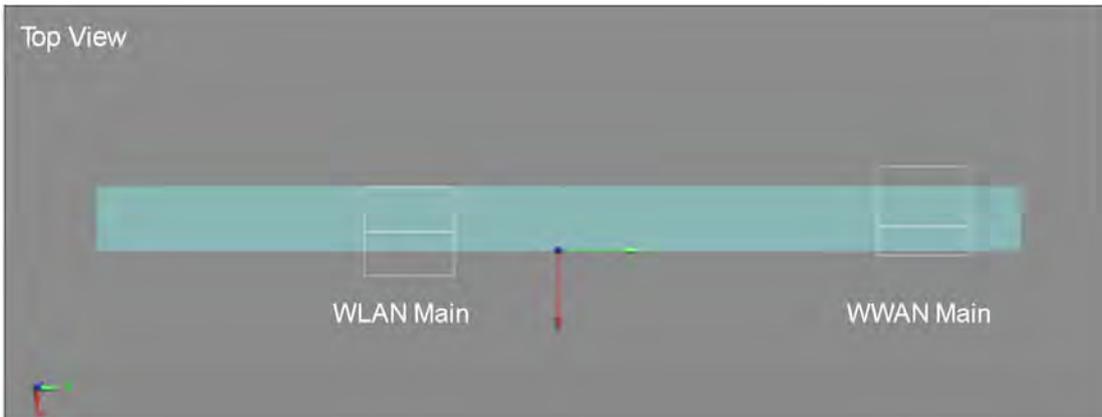


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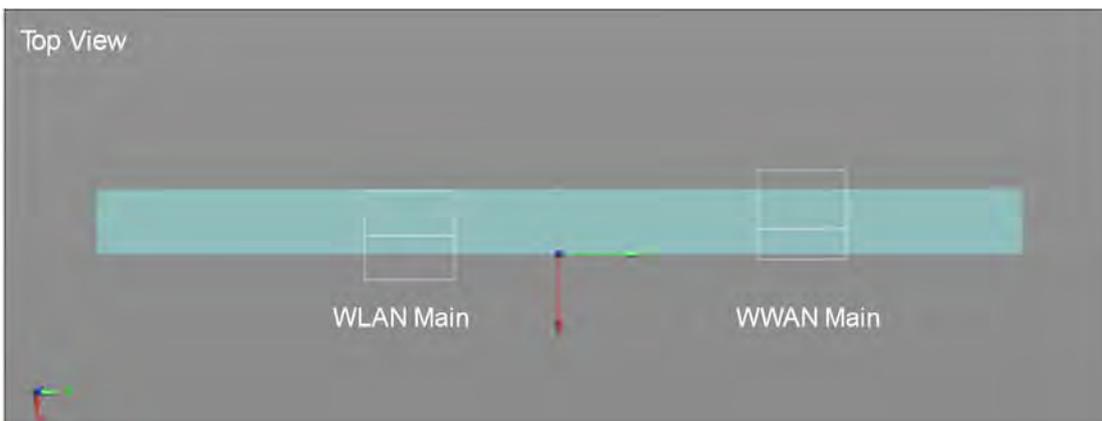
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### LTE Band 38



### LTE Band 41



### LTE Band 66



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Bottom side WWAN + 2.4G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
9	Bottom side	WCDMA Band 2	0	0.025	0.040	0.041	0.106	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.032	0.040	0.041	0.113	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.032	0.040	0.041	0.113	ΣSAR<1.6, Not required
		LTE Band 2	0	0.043	0.040	0.041	0.124	ΣSAR<1.6, Not required
		LTE Band 4	0	0.033	0.040	0.041	0.114	ΣSAR<1.6, Not required
		LTE Band 5	0	0.033	0.040	0.041	0.114	ΣSAR<1.6, Not required
		LTE Band 7	0	0.027	0.040	0.041	0.108	ΣSAR<1.6, Not required
		LTE Band 12	0	0.047	0.040	0.041	0.128	ΣSAR<1.6, Not required
		LTE Band 13	0	0.049	0.040	0.041	0.130	ΣSAR<1.6, Not required
		LTE Band 17	0	0.047	0.040	0.041	0.128	ΣSAR<1.6, Not required
		LTE Band 26	0	0.039	0.040	0.041	0.120	ΣSAR<1.6, Not required
		LTE Band 30	0	0.021	0.040	0.041	0.102	ΣSAR<1.6, Not required
		LTE Band 38	0	0.002	0.040	0.041	0.083	ΣSAR<1.6, Not required
		LTE Band 41	0	0.021	0.040	0.041	0.102	ΣSAR<1.6, Not required
LTE Band 66	0	0.453	0.040	0.041	0.534	ΣSAR<1.6, Not required		

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Bottom side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
10	Bottom side	WCDMA Band 2	0	0.025	0.057	0.039	0.121	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.032	0.057	0.039	0.128	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.032	0.057	0.039	0.128	ΣSAR<1.6, Not required
		LTE Band 2	0	0.043	0.057	0.039	0.139	ΣSAR<1.6, Not required
		LTE Band 4	0	0.033	0.057	0.039	0.129	ΣSAR<1.6, Not required
		LTE Band 5	0	0.033	0.057	0.039	0.129	ΣSAR<1.6, Not required
		LTE Band 7	0	0.027	0.057	0.039	0.123	ΣSAR<1.6, Not required
		LTE Band 12	0	0.047	0.057	0.039	0.143	ΣSAR<1.6, Not required
		LTE Band 13	0	0.049	0.057	0.039	0.145	ΣSAR<1.6, Not required
		LTE Band 17	0	0.047	0.057	0.039	0.143	ΣSAR<1.6, Not required
		LTE Band 26	0	0.039	0.057	0.039	0.135	ΣSAR<1.6, Not required
		LTE Band 30	0	0.021	0.057	0.039	0.117	ΣSAR<1.6, Not required
		LTE Band 38	0	0.002	0.057	0.039	0.098	ΣSAR<1.6, Not required
		LTE Band 41	0	0.021	0.057	0.039	0.117	ΣSAR<1.6, Not required
LTE Band 66	0	0.453	0.057	0.039	0.549	ΣSAR<1.6, Not required		

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Bottom side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
11	Bottom side	WCDMA Band 2	0	0.025	0.040	0.010	0.075	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.032	0.040	0.010	0.082	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.032	0.040	0.010	0.082	ΣSAR<1.6, Not required
		LTE Band 2	0	0.043	0.040	0.010	0.093	ΣSAR<1.6, Not required
		LTE Band 4	0	0.033	0.040	0.010	0.083	ΣSAR<1.6, Not required
		LTE Band 5	0	0.033	0.040	0.010	0.083	ΣSAR<1.6, Not required
		LTE Band 7	0	0.027	0.040	0.010	0.077	ΣSAR<1.6, Not required
		LTE Band 12	0	0.047	0.040	0.010	0.097	ΣSAR<1.6, Not required
		LTE Band 13	0	0.049	0.040	0.010	0.099	ΣSAR<1.6, Not required
		LTE Band 17	0	0.047	0.040	0.010	0.097	ΣSAR<1.6, Not required
		LTE Band 26	0	0.039	0.040	0.010	0.089	ΣSAR<1.6, Not required
		LTE Band 30	0	0.021	0.040	0.010	0.071	ΣSAR<1.6, Not required
		LTE Band 38	0	0.002	0.040	0.010	0.052	ΣSAR<1.6, Not required
		LTE Band 41	0	0.021	0.040	0.010	0.071	ΣSAR<1.6, Not required
LTE Band 66	0	0.453	0.040	0.010	0.503	ΣSAR<1.6, Not required		

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Bottom side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
12	Bottom side	WCDMA Band 2	0	0.025	0.057	0.010	0.092	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.032	0.057	0.010	0.099	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.032	0.057	0.010	0.099	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.043	0.057	0.010	0.110	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.033	0.057	0.010	0.100	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.033	0.057	0.010	0.100	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.027	0.057	0.010	0.094	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.047	0.057	0.010	0.114	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.049	0.057	0.010	0.116	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.047	0.057	0.010	0.114	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.039	0.057	0.010	0.106	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.021	0.057	0.010	0.088	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.002	0.057	0.010	0.069	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.021	0.057	0.010	0.088	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.453	0.057	0.010	0.520	$\Sigma$ SAR<1.6, Not required		

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Right side WWAN + 2.4G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
13	Right side	WCDMA Band 2	0	0.474	0.041	0.044	0.559	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.556	0.041	0.044	0.641	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.507	0.041	0.044	0.592	ΣSAR<1.6, Not required
		LTE Band 2	0	0.511	0.041	0.044	0.596	ΣSAR<1.6, Not required
		LTE Band 4	0	0.586	0.041	0.044	0.671	ΣSAR<1.6, Not required
		LTE Band 5	0	0.490	0.041	0.044	0.575	ΣSAR<1.6, Not required
		LTE Band 7	0	0.357	0.041	0.044	0.442	ΣSAR<1.6, Not required
		LTE Band 12	0	0.635	0.041	0.044	0.720	ΣSAR<1.6, Not required
		LTE Band 13	0	0.646	0.041	0.044	0.731	ΣSAR<1.6, Not required
		LTE Band 17	0	0.635	0.041	0.044	0.720	ΣSAR<1.6, Not required
		LTE Band 26	0	0.640	0.041	0.044	0.725	ΣSAR<1.6, Not required
		LTE Band 30	0	0.322	0.041	0.044	0.407	ΣSAR<1.6, Not required
		LTE Band 38	0	0.366	0.041	0.044	0.451	ΣSAR<1.6, Not required
		LTE Band 41	0	0.339	0.041	0.044	0.424	ΣSAR<1.6, Not required
LTE Band 66	0	0.633	0.041	0.044	0.718	ΣSAR<1.6, Not required		

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Right side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
14	Right side	WCDMA Band 2	0	0.474	0.059	0.041	0.574	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.556	0.059	0.041	0.656	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.507	0.059	0.041	0.607	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.511	0.059	0.041	0.611	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.586	0.059	0.041	0.686	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.490	0.059	0.041	0.590	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.357	0.059	0.041	0.457	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.635	0.059	0.041	0.735	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.646	0.059	0.041	0.746	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.635	0.059	0.041	0.735	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.640	0.059	0.041	0.740	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.322	0.059	0.041	0.422	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.366	0.059	0.041	0.466	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.339	0.059	0.041	0.439	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.633	0.059	0.041	0.733	$\Sigma$ SAR<1.6, Not required		

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Right side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
15	Right side	WCDMA Band 2	0	0.474	0.041	0.012	0.527	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.556	0.041	0.012	0.609	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.507	0.041	0.012	0.560	ΣSAR<1.6, Not required
		LTE Band 2	0	0.511	0.041	0.012	0.564	ΣSAR<1.6, Not required
		LTE Band 4	0	0.586	0.041	0.012	0.639	ΣSAR<1.6, Not required
		LTE Band 5	0	0.490	0.041	0.012	0.543	ΣSAR<1.6, Not required
		LTE Band 7	0	0.357	0.041	0.012	0.410	ΣSAR<1.6, Not required
		LTE Band 12	0	0.635	0.041	0.012	0.688	ΣSAR<1.6, Not required
		LTE Band 13	0	0.646	0.041	0.012	0.699	ΣSAR<1.6, Not required
		LTE Band 17	0	0.635	0.041	0.012	0.688	ΣSAR<1.6, Not required
		LTE Band 26	0	0.640	0.041	0.012	0.693	ΣSAR<1.6, Not required
		LTE Band 30	0	0.322	0.041	0.012	0.375	ΣSAR<1.6, Not required
		LTE Band 38	0	0.366	0.041	0.012	0.419	ΣSAR<1.6, Not required
		LTE Band 41	0	0.339	0.041	0.012	0.392	ΣSAR<1.6, Not required
LTE Band 66	0	0.633	0.041	0.012	0.686	ΣSAR<1.6, Not required		

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Right side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
16	Right side	WCDMA Band 2	0	0.474	0.059	0.012	0.545	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.556	0.059	0.012	0.627	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.507	0.059	0.012	0.578	ΣSAR<1.6, Not required
		LTE Band 2	0	0.511	0.059	0.012	0.582	ΣSAR<1.6, Not required
		LTE Band 4	0	0.586	0.059	0.012	0.657	ΣSAR<1.6, Not required
		LTE Band 5	0	0.490	0.059	0.012	0.561	ΣSAR<1.6, Not required
		LTE Band 7	0	0.357	0.059	0.012	0.428	ΣSAR<1.6, Not required
		LTE Band 12	0	0.635	0.059	0.012	0.706	ΣSAR<1.6, Not required
		LTE Band 13	0	0.646	0.059	0.012	0.717	ΣSAR<1.6, Not required
		LTE Band 17	0	0.635	0.059	0.012	0.706	ΣSAR<1.6, Not required
		LTE Band 26	0	0.640	0.059	0.012	0.711	ΣSAR<1.6, Not required
		LTE Band 30	0	0.322	0.059	0.012	0.393	ΣSAR<1.6, Not required
		LTE Band 38	0	0.366	0.059	0.012	0.437	ΣSAR<1.6, Not required
		LTE Band 41	0	0.339	0.059	0.012	0.410	ΣSAR<1.6, Not required
LTE Band 66	0	0.633	0.059	0.012	0.704	ΣSAR<1.6, Not required		

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## Left side WWAN + 2.4G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
17	Left side	WCDMA Band 2	0	0.044	0.304	0.321	0.669	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.047	0.304	0.321	0.672	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.043	0.304	0.321	0.668	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.066	0.304	0.321	0.691	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.046	0.304	0.321	0.671	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.044	0.304	0.321	0.669	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.033	0.304	0.321	0.658	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.055	0.304	0.321	0.680	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.059	0.304	0.321	0.684	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.058	0.304	0.321	0.683	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.054	0.304	0.321	0.679	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.030	0.304	0.321	0.655	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.030	0.304	0.321	0.655	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.028	0.304	0.321	0.653	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.056	0.304	0.321	0.681	$\Sigma$ SAR<1.6, Not required		

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Left side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
18	Left side	WCDMA Band 2	0	0.044	0.332	0.301	0.677	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.047	0.332	0.301	0.680	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.043	0.332	0.301	0.676	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.066	0.332	0.301	0.699	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.046	0.332	0.301	0.679	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.044	0.332	0.301	0.677	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.033	0.332	0.301	0.666	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.055	0.332	0.301	0.688	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.059	0.332	0.301	0.692	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.058	0.332	0.301	0.691	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.054	0.332	0.301	0.687	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.030	0.332	0.301	0.663	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.030	0.332	0.301	0.663	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.028	0.332	0.301	0.661	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.056	0.332	0.301	0.689	$\Sigma$ SAR<1.6, Not required		

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## Left side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
19	Left side	WCDMA Band 2	0	0.044	0.304	0.137	0.485	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.047	0.304	0.137	0.488	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.043	0.304	0.137	0.484	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.066	0.304	0.137	0.507	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.046	0.304	0.137	0.487	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.044	0.304	0.137	0.485	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.033	0.304	0.137	0.474	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.055	0.304	0.137	0.496	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.059	0.304	0.137	0.500	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.058	0.304	0.137	0.499	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.054	0.304	0.137	0.495	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.030	0.304	0.137	0.471	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.030	0.304	0.137	0.471	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.028	0.304	0.137	0.469	$\Sigma$ SAR<1.6, Not required
		LTE Band 66	0	0.056	0.304	0.137	0.497	$\Sigma$ SAR<1.6, Not required

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## Left side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
20	Left side	WCDMA Band 2	0	0.044	0.332	0.137	0.513	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.047	0.332	0.137	0.516	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.043	0.332	0.137	0.512	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.066	0.332	0.137	0.535	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.046	0.332	0.137	0.515	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.044	0.332	0.137	0.513	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.033	0.332	0.137	0.502	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.055	0.332	0.137	0.524	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.059	0.332	0.137	0.528	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.058	0.332	0.137	0.527	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.054	0.332	0.137	0.523	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.030	0.332	0.137	0.499	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.030	0.332	0.137	0.499	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.028	0.332	0.137	0.497	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.056	0.332	0.137	0.525	$\Sigma$ SAR<1.6, Not required		

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**HONG-BO**

**Back side WWAN + 2.4G WLAN**

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
1	Back side	WCDMA Band 2	0	0.318	0.200	0.311	0.829	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.290	0.200	0.311	0.801	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.288	0.200	0.311	0.799	ΣSAR<1.6, Not required
		LTE Band 2	0	0.291	0.200	0.311	0.802	ΣSAR<1.6, Not required
		LTE Band 4	0	0.292	0.200	0.311	0.803	ΣSAR<1.6, Not required
		LTE Band 5	0	0.297	0.200	0.311	0.808	ΣSAR<1.6, Not required
		LTE Band 7	0	0.278	0.200	0.311	0.789	ΣSAR<1.6, Not required
		LTE Band 12	0	0.316	0.200	0.311	0.827	ΣSAR<1.6, Not required
		LTE Band 13	0	0.291	0.200	0.311	0.802	ΣSAR<1.6, Not required
		LTE Band 17	0	0.307	0.200	0.311	0.818	ΣSAR<1.6, Not required
		LTE Band 26	0	0.293	0.200	0.311	0.804	ΣSAR<1.6, Not required
		LTE Band 30	0	0.226	0.200	0.311	0.737	ΣSAR<1.6, Not required
		LTE Band 38	0	0.263	0.200	0.311	0.774	ΣSAR<1.6, Not required
		LTE Band 41	0	0.247	0.200	0.311	0.758	ΣSAR<1.6, Not required
LTE Band 66	0	0.277	0.200	0.311	0.788	ΣSAR<1.6, Not required		

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Back side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
2	Back side	WCDMA Band 2	0	0.318	0.354	0.346	1.018	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.290	0.354	0.346	0.990	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.288	0.354	0.346	0.988	ΣSAR<1.6, Not required
		LTE Band 2	0	0.291	0.354	0.346	0.991	ΣSAR<1.6, Not required
		LTE Band 4	0	0.292	0.354	0.346	0.992	ΣSAR<1.6, Not required
		LTE Band 5	0	0.297	0.354	0.346	0.997	ΣSAR<1.6, Not required
		LTE Band 7	0	0.278	0.354	0.346	0.978	ΣSAR<1.6, Not required
		LTE Band 12	0	0.316	0.354	0.346	1.016	ΣSAR<1.6, Not required
		LTE Band 13	0	0.291	0.354	0.346	0.991	ΣSAR<1.6, Not required
		LTE Band 17	0	0.307	0.354	0.346	1.007	ΣSAR<1.6, Not required
		LTE Band 26	0	0.293	0.354	0.346	0.993	ΣSAR<1.6, Not required
		LTE Band 30	0	0.226	0.354	0.346	0.926	ΣSAR<1.6, Not required
		LTE Band 38	0	0.263	0.354	0.346	0.963	ΣSAR<1.6, Not required
		LTE Band 41	0	0.247	0.354	0.346	0.947	ΣSAR<1.6, Not required
LTE Band 66	0	0.277	0.354	0.346	0.977	ΣSAR<1.6, Not required		

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Back side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
3	Back side	WCDMA Band 2	0	0.318	0.200	0.098	0.616	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.290	0.200	0.098	0.588	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.288	0.200	0.098	0.586	ΣSAR<1.6, Not required
		LTE Band 2	0	0.291	0.200	0.098	0.589	ΣSAR<1.6, Not required
		LTE Band 4	0	0.292	0.200	0.098	0.590	ΣSAR<1.6, Not required
		LTE Band 5	0	0.297	0.200	0.098	0.595	ΣSAR<1.6, Not required
		LTE Band 7	0	0.278	0.200	0.098	0.576	ΣSAR<1.6, Not required
		LTE Band 12	0	0.316	0.200	0.098	0.614	ΣSAR<1.6, Not required
		LTE Band 13	0	0.291	0.200	0.098	0.589	ΣSAR<1.6, Not required
		LTE Band 17	0	0.307	0.200	0.098	0.605	ΣSAR<1.6, Not required
		LTE Band 26	0	0.293	0.200	0.098	0.591	ΣSAR<1.6, Not required
		LTE Band 30	0	0.226	0.200	0.098	0.524	ΣSAR<1.6, Not required
		LTE Band 38	0	0.263	0.200	0.098	0.561	ΣSAR<1.6, Not required
		LTE Band 41	0	0.247	0.200	0.098	0.545	ΣSAR<1.6, Not required
LTE Band 66	0	0.277	0.200	0.098	0.575	ΣSAR<1.6, Not required		

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Back side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
4	Back side	WCDMA Band 2	0	0.318	0.354	0.098	0.770	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.290	0.354	0.098	0.742	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.288	0.354	0.098	0.740	ΣSAR<1.6, Not required
		LTE Band 2	0	0.291	0.354	0.098	0.743	ΣSAR<1.6, Not required
		LTE Band 4	0	0.292	0.354	0.098	0.744	ΣSAR<1.6, Not required
		LTE Band 5	0	0.297	0.354	0.098	0.749	ΣSAR<1.6, Not required
		LTE Band 7	0	0.278	0.354	0.098	0.730	ΣSAR<1.6, Not required
		LTE Band 12	0	0.316	0.354	0.098	0.768	ΣSAR<1.6, Not required
		LTE Band 13	0	0.291	0.354	0.098	0.743	ΣSAR<1.6, Not required
		LTE Band 17	0	0.307	0.354	0.098	0.759	ΣSAR<1.6, Not required
		LTE Band 26	0	0.293	0.354	0.098	0.745	ΣSAR<1.6, Not required
		LTE Band 30	0	0.226	0.354	0.098	0.678	ΣSAR<1.6, Not required
		LTE Band 38	0	0.263	0.354	0.098	0.715	ΣSAR<1.6, Not required
		LTE Band 41	0	0.247	0.354	0.098	0.699	ΣSAR<1.6, Not required
LTE Band 66	0	0.277	0.354	0.098	0.729	ΣSAR<1.6, Not required		

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Top side WWAN + 2.4G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
5	Top side	WCDMA Band 2	0	1.390	0.728	0.938	<b>3.056</b>	Analyzed as below
		WCDMA Band 4	0	1.381	0.728	0.938	<b>3.047</b>	Analyzed as below
		WCDMA Band 5	0	1.316	0.728	0.938	<b>2.982</b>	Analyzed as below
		LTE Band 2	0	1.285	0.728	0.938	<b>2.951</b>	Analyzed as below
		LTE Band 4	0	1.283	0.728	0.938	<b>2.949</b>	Analyzed as below
		LTE Band 5	0	1.326	0.728	0.938	<b>2.992</b>	Analyzed as below
		LTE Band 7	0	1.310	0.728	0.938	<b>2.976</b>	Analyzed as below
		LTE Band 12	0	1.329	0.728	0.938	<b>2.995</b>	Analyzed as below
		LTE Band 13	0	1.319	0.728	0.938	<b>2.985</b>	Analyzed as below
		LTE Band 17	0	1.339	0.728	0.938	<b>3.005</b>	Analyzed as below
		LTE Band 26	0	1.306	0.728	0.938	<b>2.972</b>	Analyzed as below
		LTE Band 30	0	1.329	0.728	0.938	<b>2.995</b>	Analyzed as below
		LTE Band 38	0	1.184	0.728	0.938	<b>2.850</b>	Analyzed as below
		LTE Band 41	0	1.217	0.728	0.938	<b>2.883</b>	Analyzed as below
LTE Band 66	0	1.306	0.728	0.938	<b>2.972</b>	Analyzed as below		

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Top side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
6	Top side	WCDMA Band 2	0	1.390	1.190	1.190	<b>3.770</b>	Analyzed as below
		WCDMA Band 4	0	1.381	1.190	1.190	<b>3.761</b>	Analyzed as below
		WCDMA Band 5	0	1.316	1.190	1.190	<b>3.696</b>	Analyzed as below
		LTE Band 2	0	1.285	1.190	1.190	<b>3.665</b>	Analyzed as below
		LTE Band 4	0	1.283	1.190	1.190	<b>3.663</b>	Analyzed as below
		LTE Band 5	0	1.326	1.190	1.190	<b>3.706</b>	Analyzed as below
		LTE Band 7	0	1.310	1.190	1.190	<b>3.690</b>	Analyzed as below
		LTE Band 12	0	1.329	1.190	1.190	<b>3.709</b>	Analyzed as below
		LTE Band 13	0	1.319	1.190	1.190	<b>3.699</b>	Analyzed as below
		LTE Band 17	0	1.339	1.190	1.190	<b>3.719</b>	Analyzed as below
		LTE Band 26	0	1.306	1.190	1.190	<b>3.686</b>	Analyzed as below
		LTE Band 30	0	1.329	1.190	1.190	<b>3.709</b>	Analyzed as below
		LTE Band 38	0	1.184	1.190	1.190	<b>3.564</b>	Analyzed as below
		LTE Band 41	0	1.217	1.190	1.190	<b>3.597</b>	Analyzed as below
LTE Band 66	0	1.306	1.190	1.190	<b>3.686</b>	Analyzed as below		

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Top side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
7	Top side	WCDMA Band 2	0	1.390	0.728	0.192	<b>2.310</b>	Analyzed as below
		WCDMA Band 4	0	1.381	0.728	0.192	<b>2.301</b>	Analyzed as below
		WCDMA Band 5	0	1.316	0.728	0.192	<b>2.236</b>	Analyzed as below
		LTE Band 2	0	1.285	0.728	0.192	<b>2.205</b>	Analyzed as below
		LTE Band 4	0	1.283	0.728	0.192	<b>2.203</b>	Analyzed as below
		LTE Band 5	0	1.326	0.728	0.192	<b>2.246</b>	Analyzed as below
		LTE Band 7	0	1.310	0.728	0.192	<b>2.230</b>	Analyzed as below
		LTE Band 12	0	1.329	0.728	0.192	<b>2.249</b>	Analyzed as below
		LTE Band 13	0	1.319	0.728	0.192	<b>2.239</b>	Analyzed as below
		LTE Band 17	0	1.339	0.728	0.192	<b>2.259</b>	Analyzed as below
		LTE Band 26	0	1.306	0.728	0.192	<b>2.226</b>	Analyzed as below
		LTE Band 30	0	1.329	0.728	0.192	<b>2.249</b>	Analyzed as below
		LTE Band 38	0	1.184	0.728	0.192	<b>2.104</b>	Analyzed as below
		LTE Band 41	0	1.217	0.728	0.192	<b>2.137</b>	Analyzed as below
LTE Band 66	0	1.306	0.728	0.192	<b>2.226</b>	Analyzed as below		

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Top side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
8	Top side	WCDMA Band 2	0	1.390	1.190	0.192	<b>2.772</b>	Analyzed as below
		WCDMA Band 4	0	1.381	1.190	0.192	<b>2.763</b>	Analyzed as below
		WCDMA Band 5	0	1.316	1.190	0.192	<b>2.698</b>	Analyzed as below
		LTE Band 2	0	1.285	1.190	0.192	<b>2.667</b>	Analyzed as below
		LTE Band 4	0	1.283	1.190	0.192	<b>2.665</b>	Analyzed as below
		LTE Band 5	0	1.326	1.190	0.192	<b>2.708</b>	Analyzed as below
		LTE Band 7	0	1.310	1.190	0.192	<b>2.692</b>	Analyzed as below
		LTE Band 12	0	1.329	1.190	0.192	<b>2.711</b>	Analyzed as below
		LTE Band 13	0	1.319	1.190	0.192	<b>2.701</b>	Analyzed as below
		LTE Band 17	0	1.339	1.190	0.192	<b>2.721</b>	Analyzed as below
		LTE Band 26	0	1.306	1.190	0.192	<b>2.688</b>	Analyzed as below
		LTE Band 30	0	1.329	1.190	0.192	<b>2.711</b>	Analyzed as below
		LTE Band 38	0	1.184	1.190	0.192	<b>2.566</b>	Analyzed as below
		LTE Band 41	0	1.217	1.190	0.192	<b>2.599</b>	Analyzed as below
LTE Band 66	0	1.306	1.190	0.192	<b>2.688</b>	Analyzed as below		

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## Top side WWAN + 2.4G WLAN Main

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN Main	0.728	-0.64	-5.18	-0.22	-	-	-	-
	WCDMA Band 2	1.390	-0.95	12.90	-0.30	2.118	180.83	0.017	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.381	-0.80	13.05	-0.30	2.109	182.31	0.017	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.316	-0.66	9.92	-0.27	2.044	151.00	0.019	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.285	-0.95	12.74	-0.52	2.013	179.25	0.016	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.283	-0.80	13.05	-0.53	2.011	182.33	0.016	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.326	-0.36	9.19	-0.38	2.054	143.74	0.020	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.310	-0.54	13.12	-0.39	2.038	183.01	0.016	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.329	-0.35	9.05	-0.38	2.057	142.34	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.319	-0.35	9.05	-0.39	2.047	142.34	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 25	1.339	-0.35	9.20	-0.38	2.067	143.84	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.306	-0.36	9.34	-0.38	2.034	145.24	0.020	SPLSR ≤ 0.04, Not required
	LTE Band 30	1.329	-0.90	12.90	-0.34	2.057	180.82	0.016	SPLSR ≤ 0.04, Not required
	LTE Band 38	1.184	-1.34	12.54	-0.14	1.912	177.34	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 41	1.217	-0.68	13.14	-0.35	1.945	183.21	0.015	SPLSR ≤ 0.04, Not required
LTE Band 66	1.306	-0.80	12.90	-0.53	2.034	180.83	0.016	SPLSR ≤ 0.04, Not required	

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## Top side WWAN + 2.4G WLAN Aux

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN Aux	0.938	-0.42	-13.66	-0.21	-	-	-	-
	WCDMA Band 2	1.390	-0.95	12.90	-0.30	2.328	265.65	0.013	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.381	-0.80	13.05	-0.30	2.319	267.13	0.013	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.316	-0.66	9.92	-0.27	2.254	235.81	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.285	-0.95	12.74	-0.52	2.223	264.07	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.283	-0.80	13.05	-0.53	2.221	267.15	0.012	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.326	-0.36	9.19	-0.38	2.264	228.51	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.310	-0.54	13.12	-0.39	2.248	267.81	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.329	-0.35	9.05	-0.38	2.267	227.11	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.319	-0.35	9.05	-0.39	2.257	227.11	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 25	1.339	-0.35	9.20	-0.38	2.277	228.61	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.306	-0.36	9.34	-0.38	2.244	230.01	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 30	1.329	-0.90	12.90	-0.34	2.267	265.65	0.013	SPLSR ≤ 0.04, Not required
	LTE Band 38	1.184	-1.34	12.54	-0.14	2.122	262.16	0.012	SPLSR ≤ 0.04, Not required
	LTE Band 41	1.217	-0.68	13.14	-0.35	2.155	268.02	0.012	SPLSR ≤ 0.04, Not required
LTE Band 66	1.306	-0.80	12.90	-0.53	2.244	265.65	0.013	SPLSR ≤ 0.04, Not required	

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Top side WWAN + 5G WLAN Main

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN Main	1.190	-0.50	-5.68	-0.21	-	-	-	-
	WCDMA Band 2	1.390	-0.95	12.90	-0.30	2.580	185.86	0.022	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.381	-0.80	13.05	-0.30	2.571	187.33	0.022	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.316	-0.66	9.92	-0.27	2.506	156.01	0.025	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.285	-0.95	12.74	-0.52	2.475	184.28	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.283	-0.80	13.05	-0.53	2.473	187.35	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.326	-0.36	9.19	-0.38	2.516	148.72	0.027	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.310	-0.54	13.12	-0.39	2.500	188.01	0.021	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.329	-0.35	9.05	-0.38	2.519	147.32	0.027	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.319	-0.35	9.05	-0.39	2.509	147.32	0.027	SPLSR ≤ 0.04, Not required
	LTE Band 25	1.339	-0.35	9.20	-0.38	2.529	148.82	0.027	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.306	-0.36	9.34	-0.38	2.496	150.22	0.026	SPLSR ≤ 0.04, Not required
	LTE Band 30	1.329	-0.90	12.90	-0.34	2.519	185.85	0.022	SPLSR ≤ 0.04, Not required
	LTE Band 38	1.184	-1.34	12.54	-0.14	2.374	182.40	0.020	SPLSR ≤ 0.04, Not required
	LTE Band 41	1.217	-0.68	13.14	-0.35	2.407	188.21	0.020	SPLSR ≤ 0.04, Not required
LTE Band 66	1.306	-0.80	12.90	-0.53	2.496	185.85	0.021	SPLSR ≤ 0.04, Not required	

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## Top side WWAN + 5G WLAN Aux

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN Aux	1.190	-0.40	-14.10	-0.21	-	-	-	-
	WCDMA Band 2	1.390	-0.95	12.90	-0.30	2.580	270.06	0.015	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.381	-0.80	13.05	-0.30	2.571	271.53	0.015	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.316	-0.66	9.92	-0.27	2.506	240.21	0.017	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.285	-0.95	12.74	-0.52	2.475	268.47	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.283	-0.80	13.05	-0.53	2.473	271.55	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.326	-0.36	9.19	-0.38	2.516	232.91	0.017	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.310	-0.54	13.12	-0.39	2.500	272.21	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.329	-0.35	9.05	-0.38	2.519	231.51	0.017	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.319	-0.35	9.05	-0.39	2.509	231.51	0.017	SPLSR ≤ 0.04, Not required
	LTE Band 25	1.339	-0.35	9.20	-0.38	2.529	233.01	0.017	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.306	-0.36	9.34	-0.38	2.496	234.41	0.017	SPLSR ≤ 0.04, Not required
	LTE Band 30	1.329	-0.90	12.90	-0.34	2.519	270.05	0.015	SPLSR ≤ 0.04, Not required
	LTE Band 38	1.184	-1.34	12.54	-0.14	2.374	266.57	0.014	SPLSR ≤ 0.04, Not required
	LTE Band 41	1.217	-0.68	13.14	-0.35	2.407	272.42	0.014	SPLSR ≤ 0.04, Not required
LTE Band 66	1.306	-0.80	12.90	-0.53	2.496	270.05	0.015	SPLSR ≤ 0.04, Not required	

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Top side WWAN + BT

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	Bluetooth	0.192	-0.52	-13.68	-0.21	-	-	-	-
	WCDMA Band 2	1.390	-0.95	12.90	-0.30	1.582	265.84	0.007	SPLSR ≤ 0.04, Not required
	WCDMA Band 4	1.381	-0.80	13.05	-0.30	1.573	267.32	0.007	SPLSR ≤ 0.04, Not required
	WCDMA Band 5	1.316	-0.66	9.92	-0.27	1.508	236.00	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 2	1.285	-0.95	12.74	-0.52	1.477	264.25	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 4	1.283	-0.80	13.05	-0.53	1.475	267.33	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 5	1.326	-0.36	9.19	-0.38	1.518	228.71	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 7	1.310	-0.54	13.12	-0.39	1.502	268.01	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 12	1.329	-0.35	9.05	-0.38	1.521	227.31	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 13	1.319	-0.35	9.05	-0.39	1.511	227.31	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 17	1.339	-0.35	9.20	-0.38	1.531	228.81	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 26	1.306	-0.36	9.34	-0.38	1.498	230.21	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 30	1.329	-0.90	12.90	-0.34	1.521	265.83	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 38	1.184	-1.34	12.54	-0.14	1.376	262.33	0.006	SPLSR ≤ 0.04, Not required
	LTE Band 41	1.217	-0.68	13.14	-0.35	1.409	268.21	0.006	SPLSR ≤ 0.04, Not required
LTE Band 66	1.306	-0.80	12.90	-0.53	1.498	265.83	0.007	SPLSR ≤ 0.04, Not required	

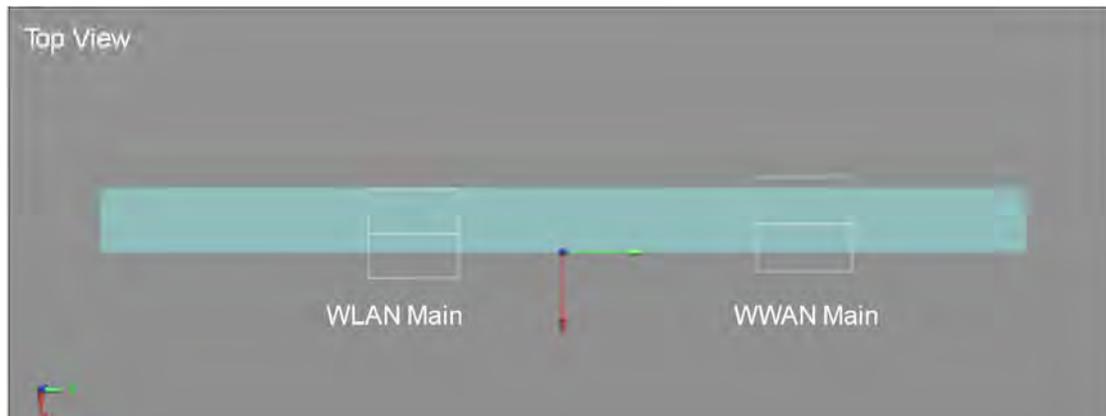
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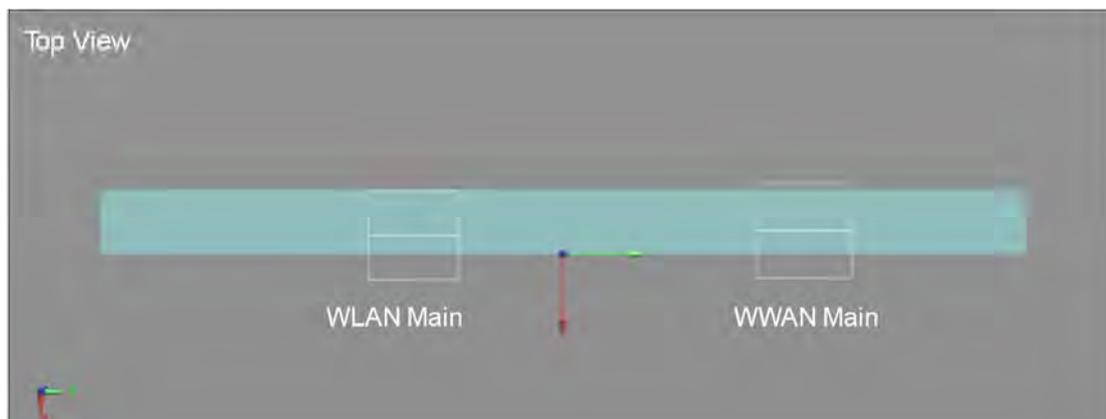
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Top\_2.4G\_Main→WWAN

WCDMA Band 2



WCDMA Band 4



WCDMA Band 5

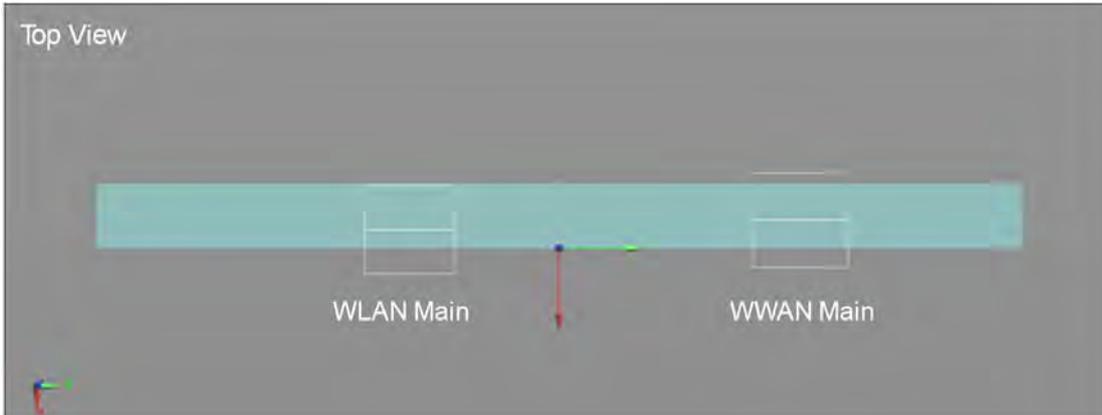


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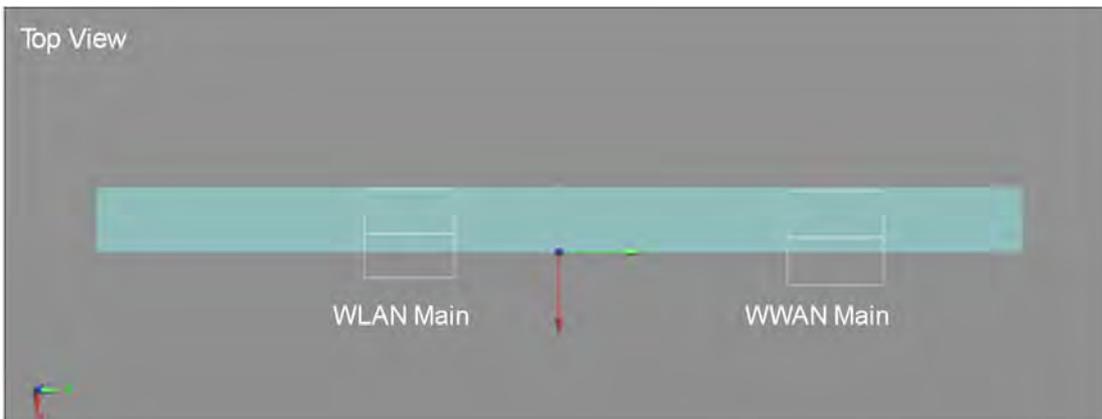
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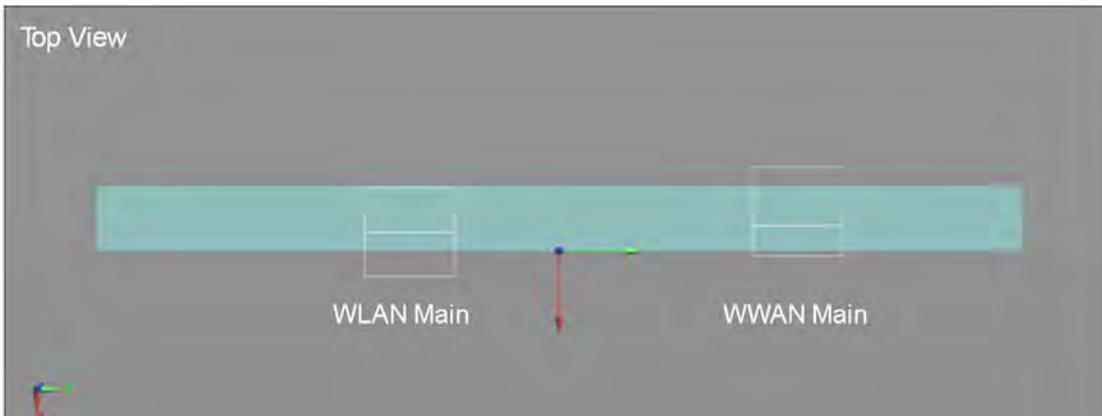
### LTE Band 2



### LTE Band 4



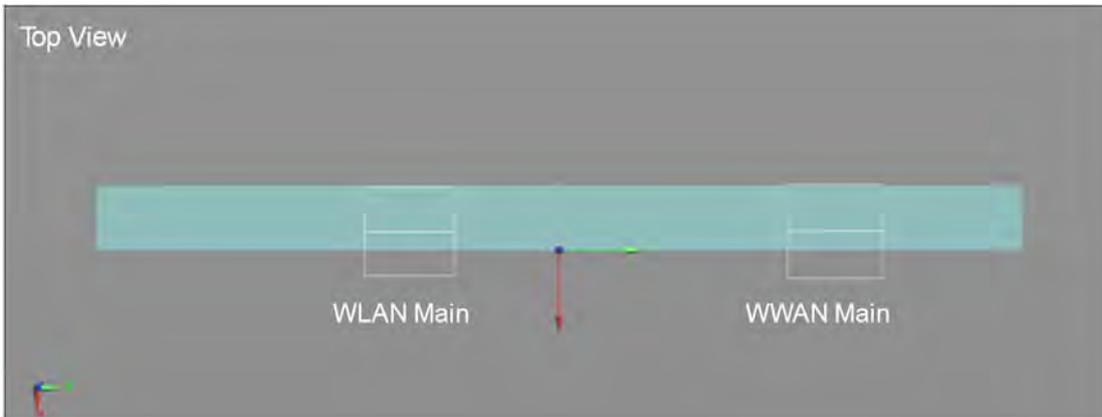
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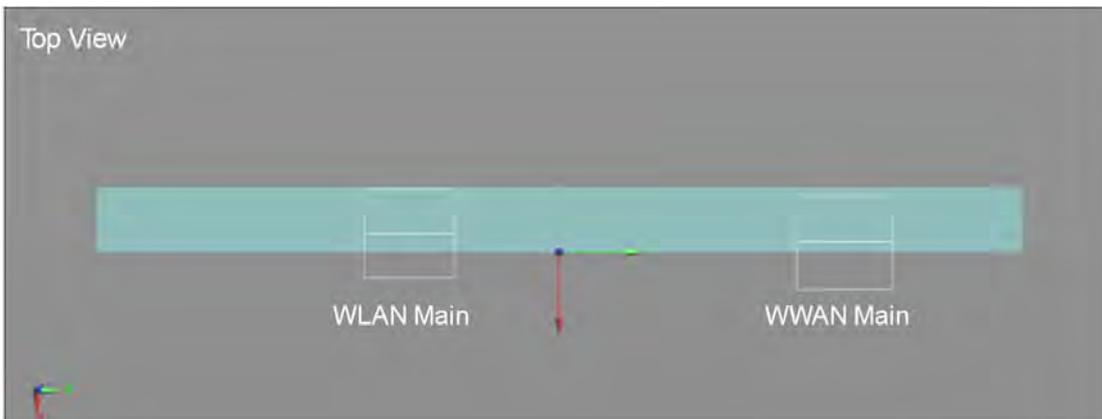
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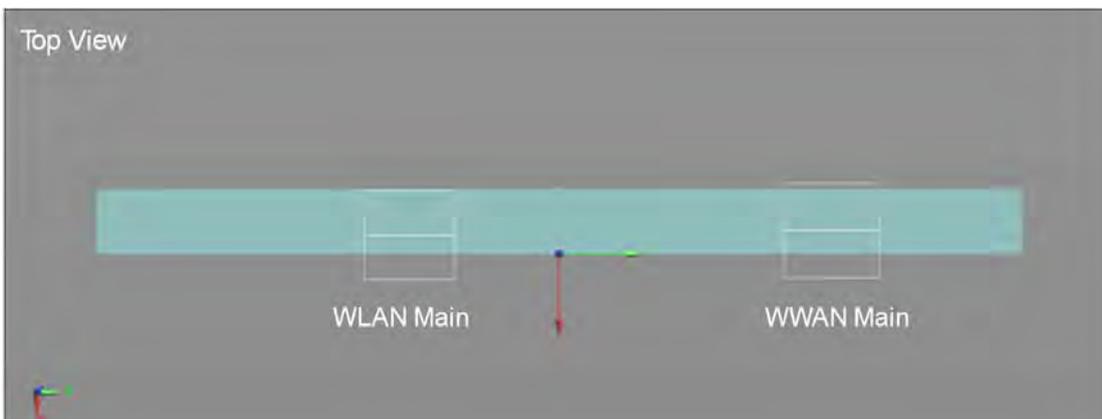
## LTE Band 7



## LTE Band 12



## LTE Band 13

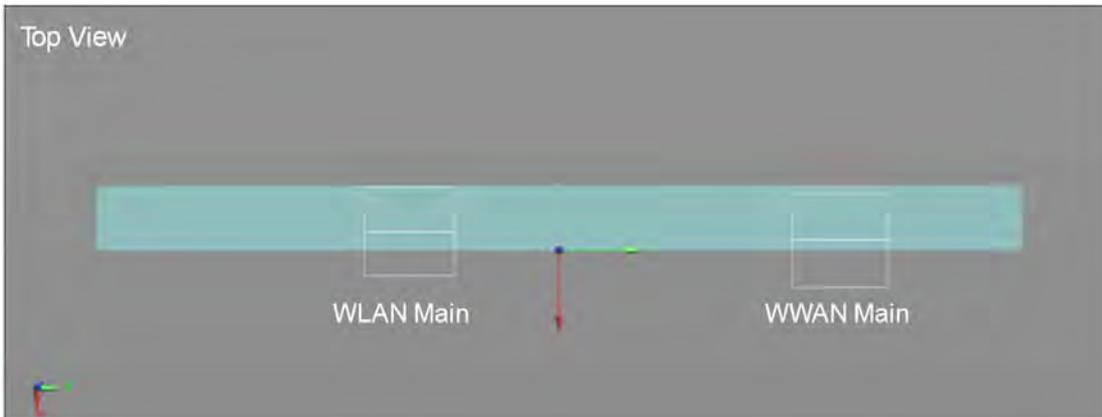


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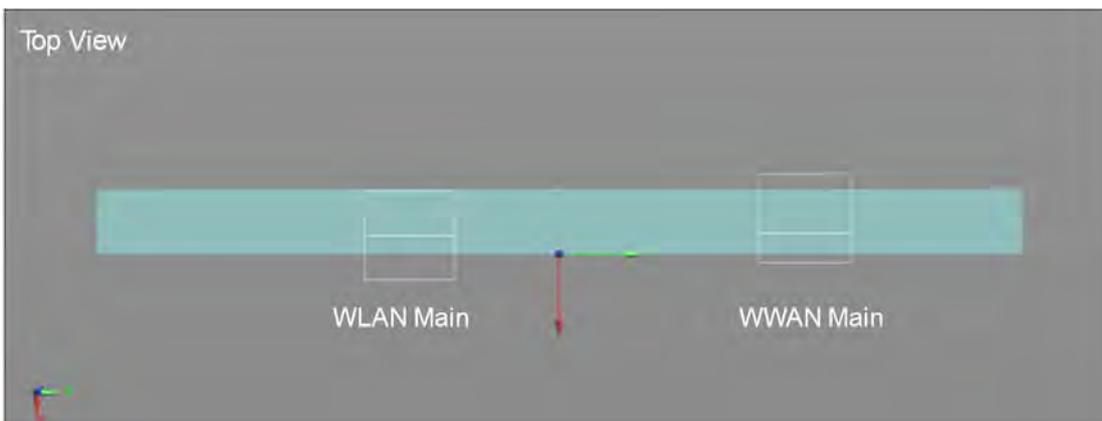
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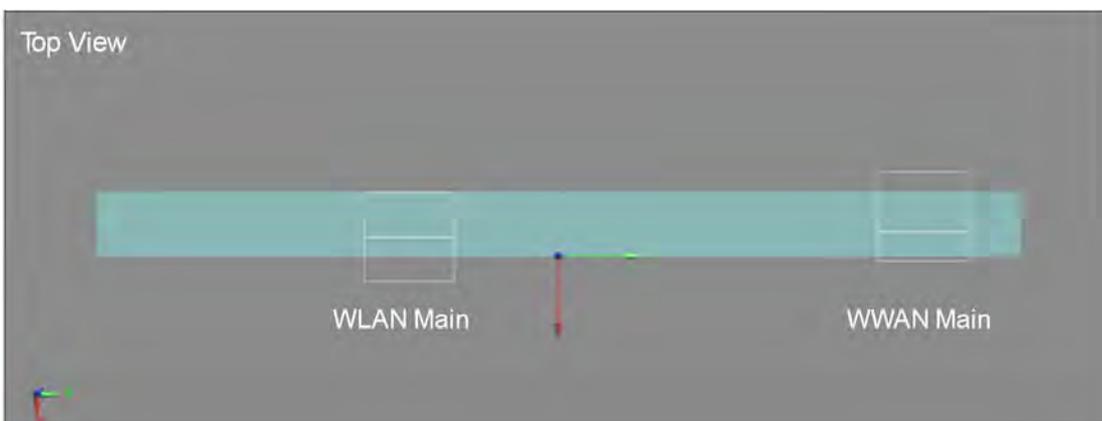
## LTE Band 17



## LTE Band 26



## LTE Band 30

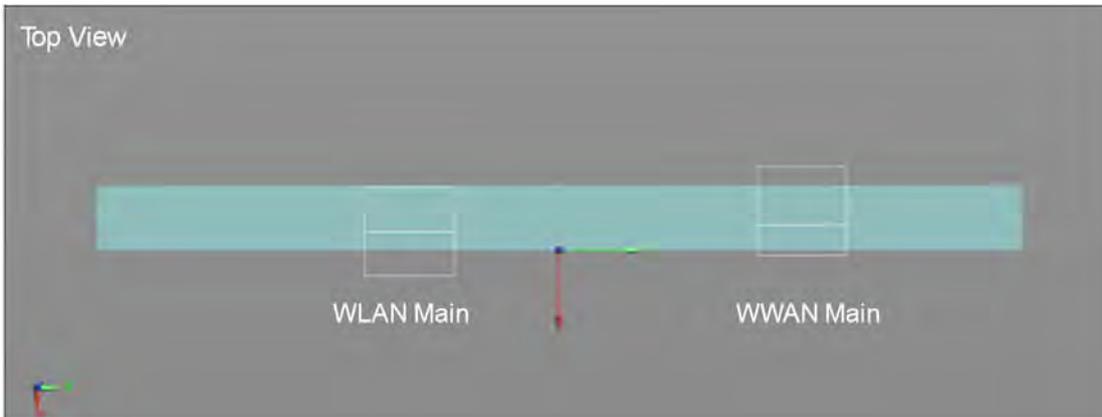


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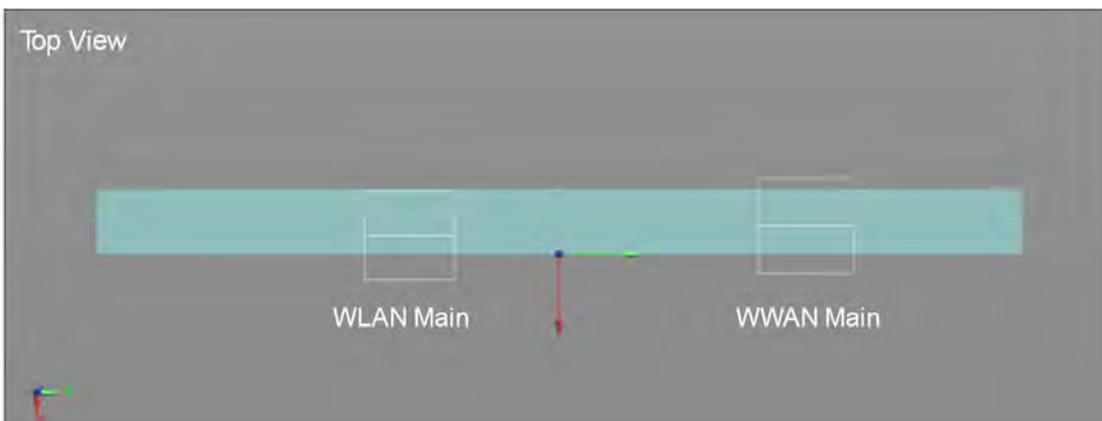
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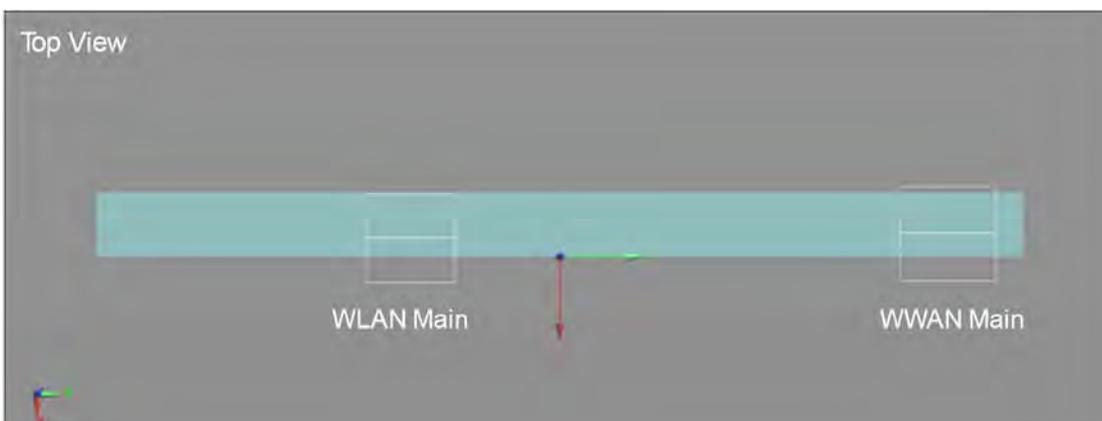
### LTE Band 38



### LTE Band 41



### LTE Band 66



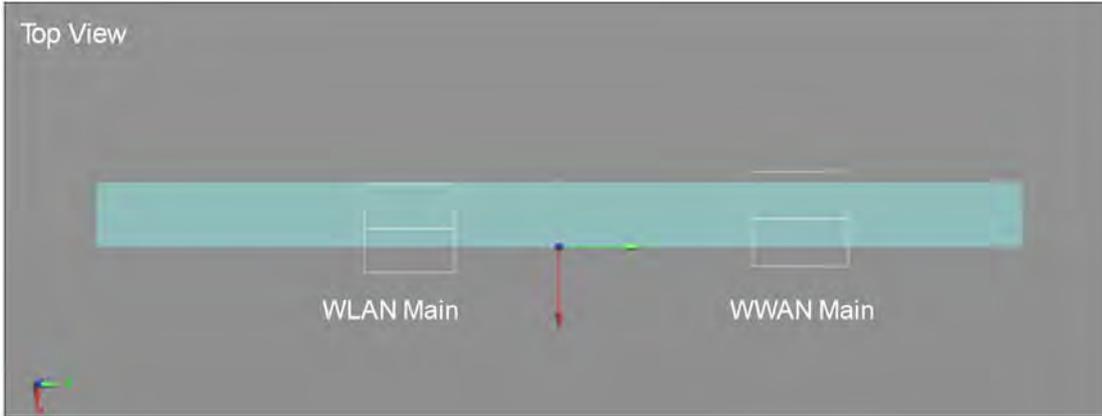
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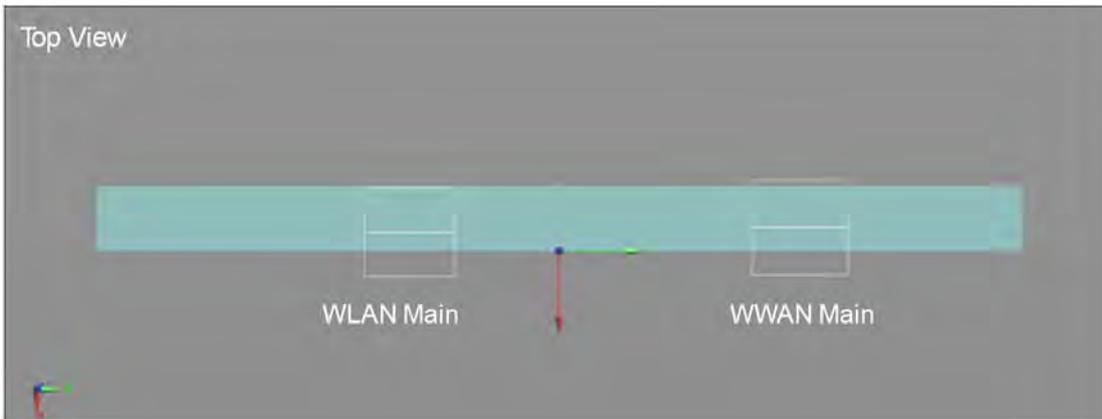
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Top\_2.4G\_Aux→WWAN

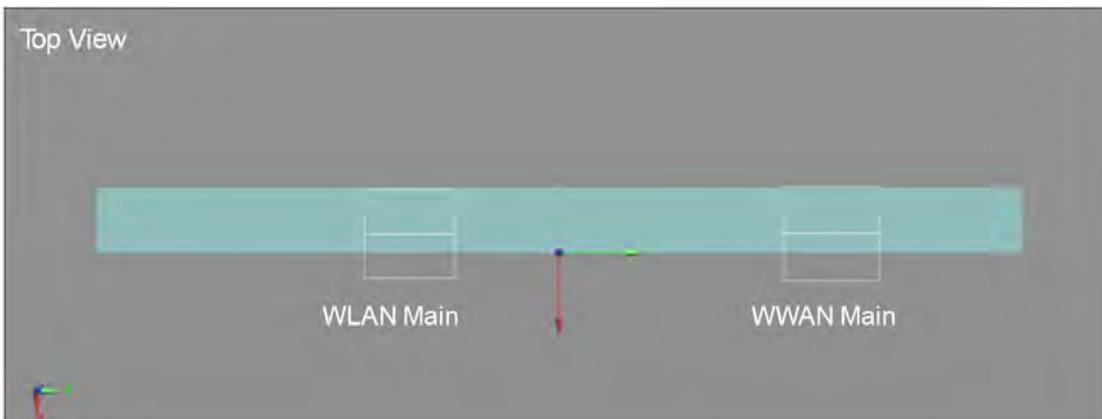
WCDMA Band 2



WCDMA Band 4



WCDMA Band 5

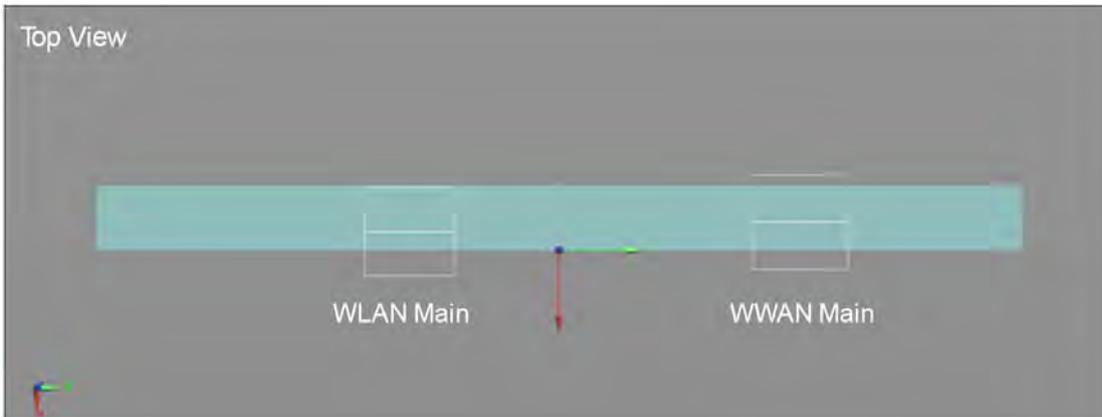


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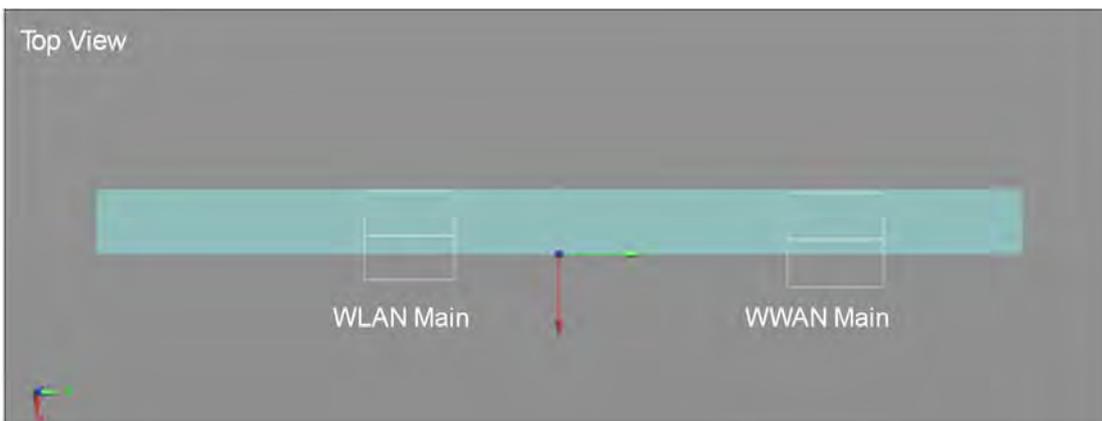
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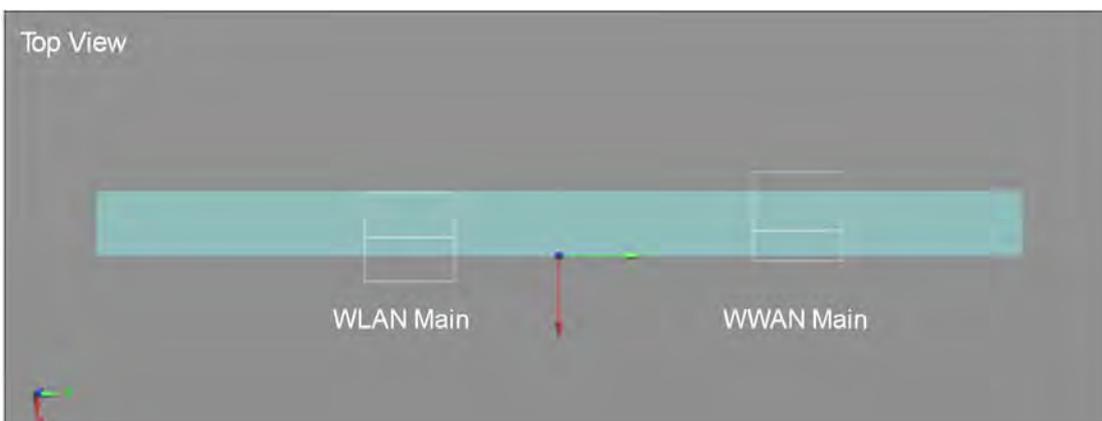
## LTE Band 2



## LTE Band 4



## LTE Band 5

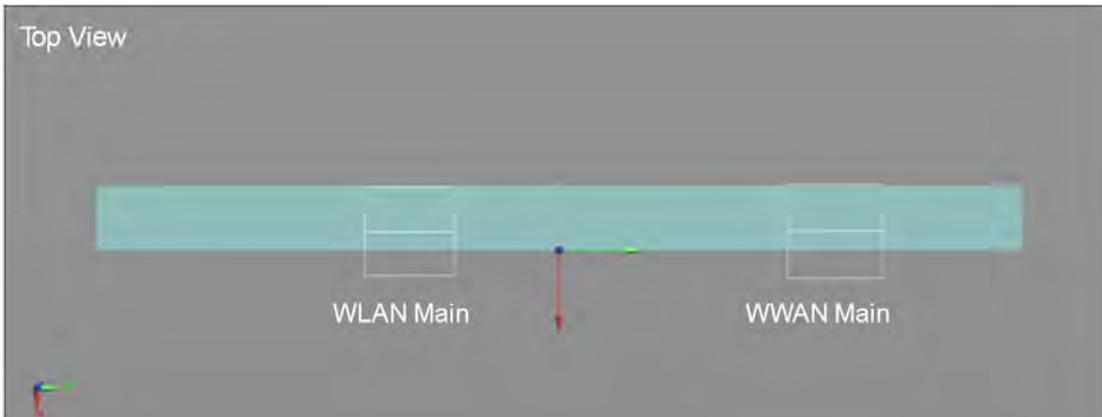


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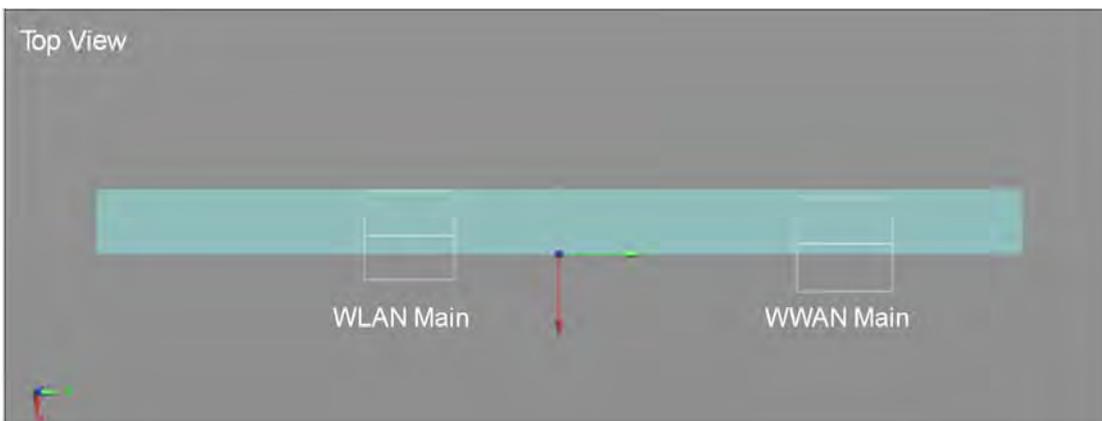
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## LTE Band 7



## LTE Band 12



## LTE Band 13

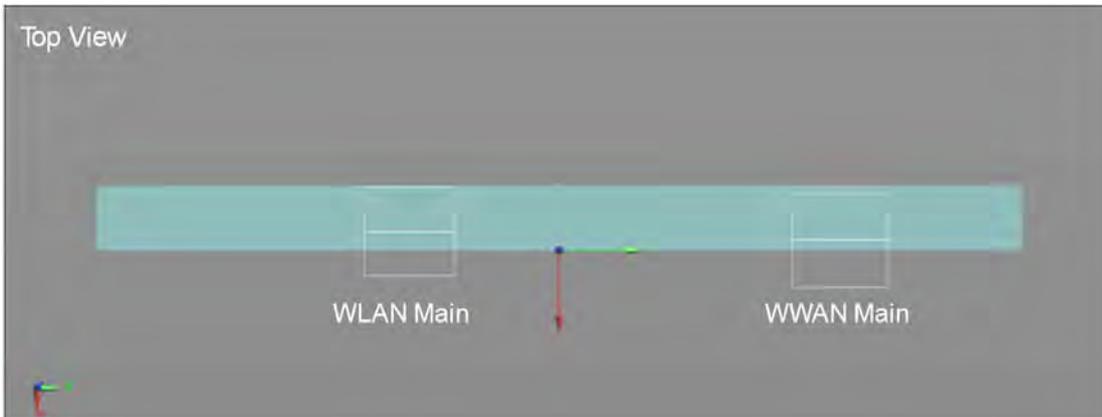


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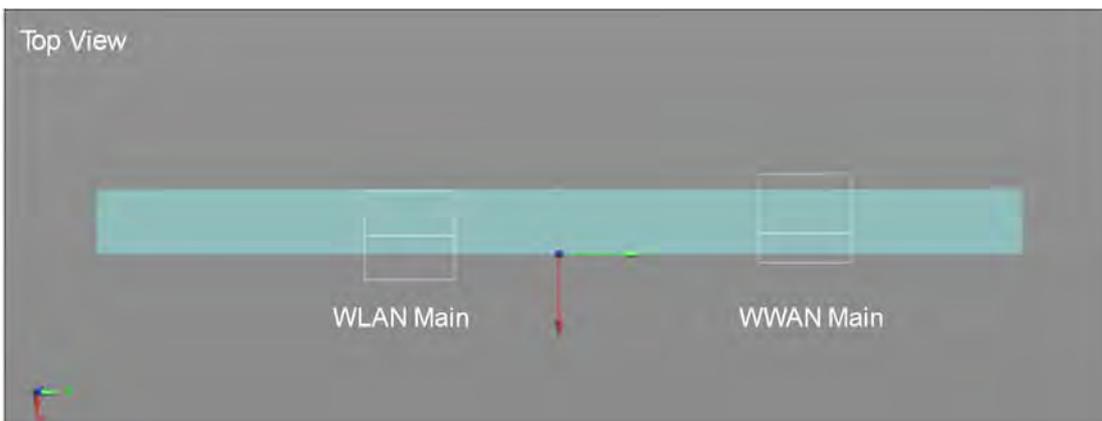
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### LTE Band 17



### LTE Band 26



### LTE Band 30

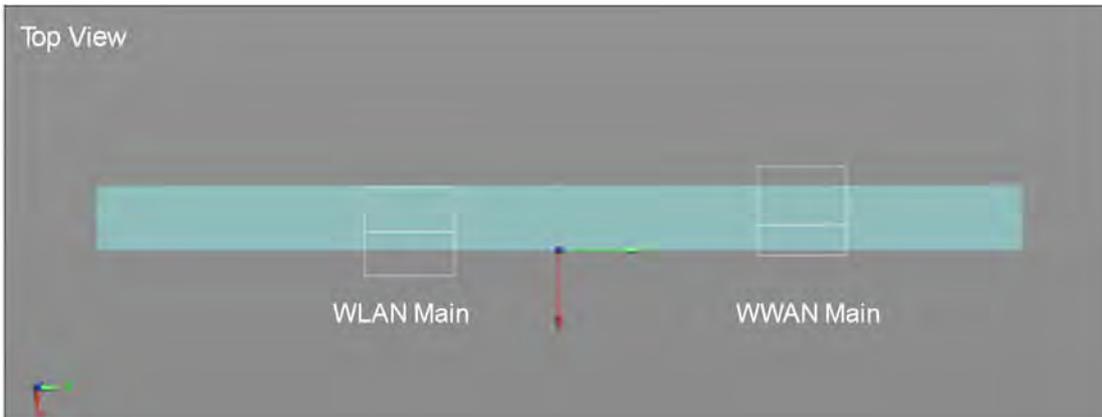


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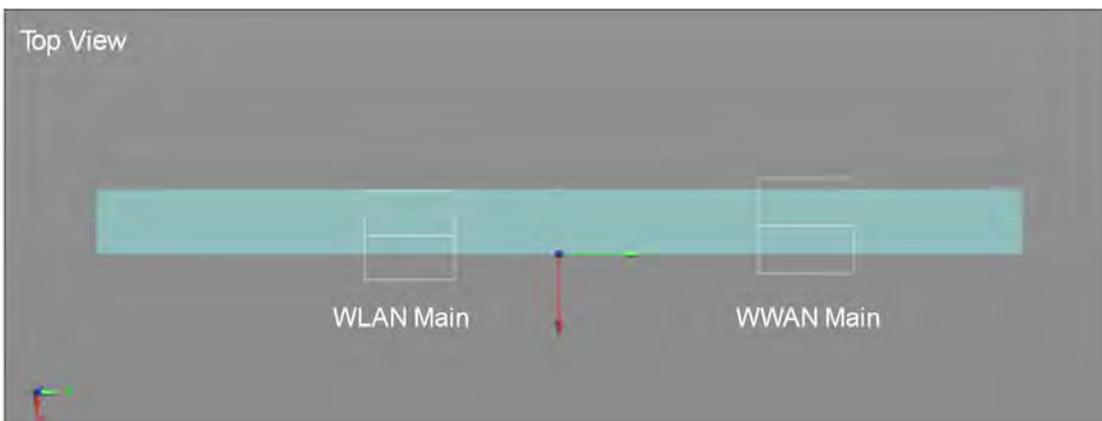
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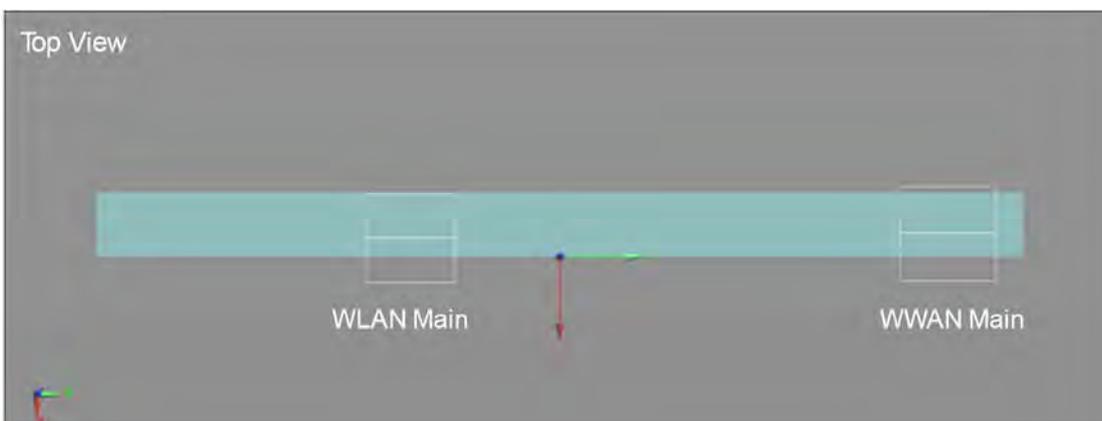
### LTE Band 38



### LTE Band 41



### LTE Band 66



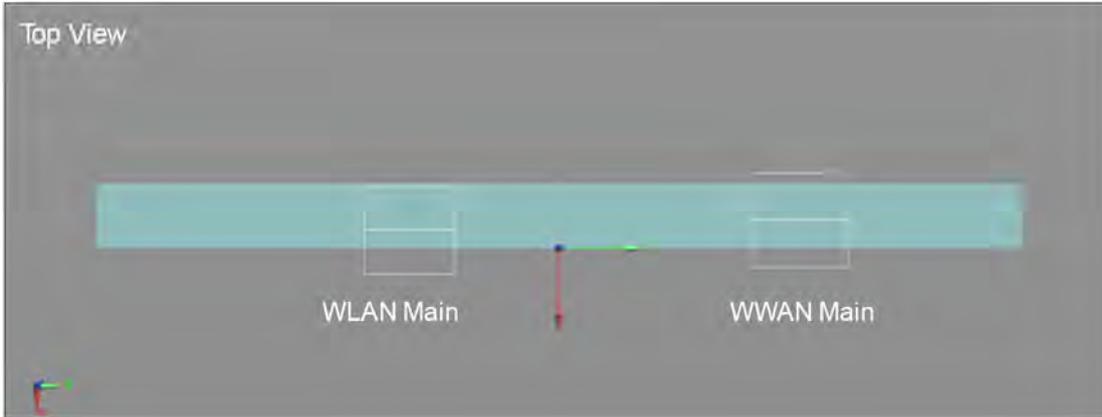
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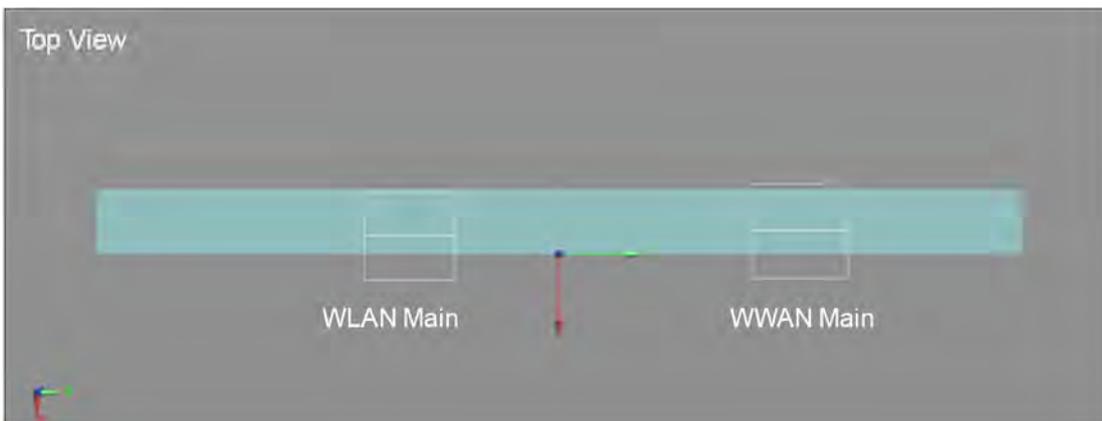
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Top\_5G\_Main→WWAN

WCDMA Band 2



WCDMA Band 4



WCDMA Band 5

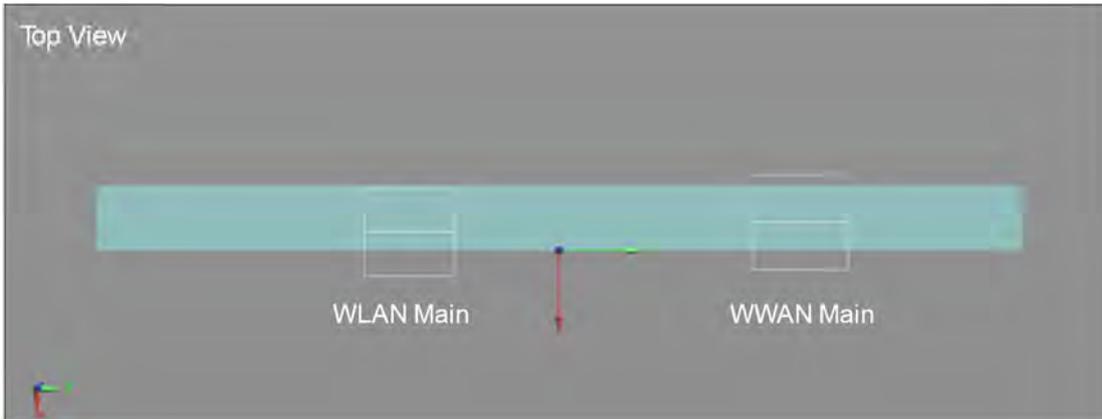


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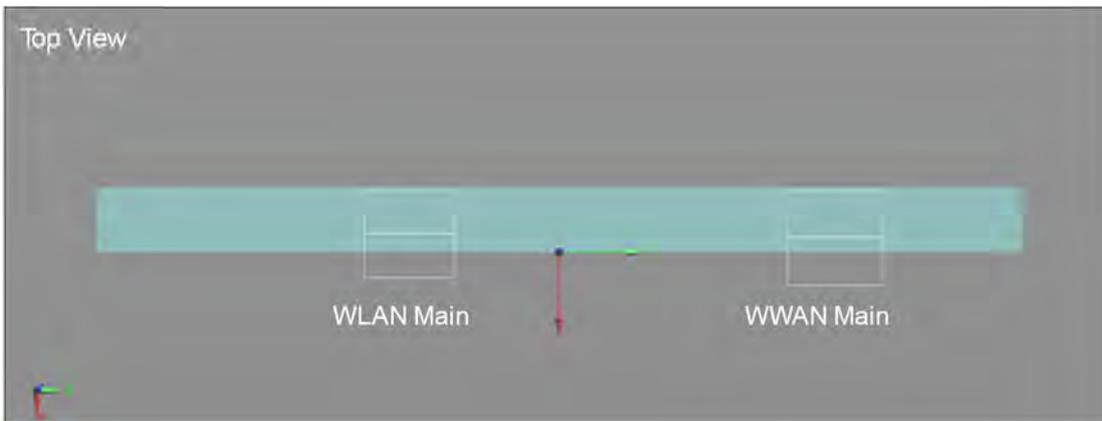
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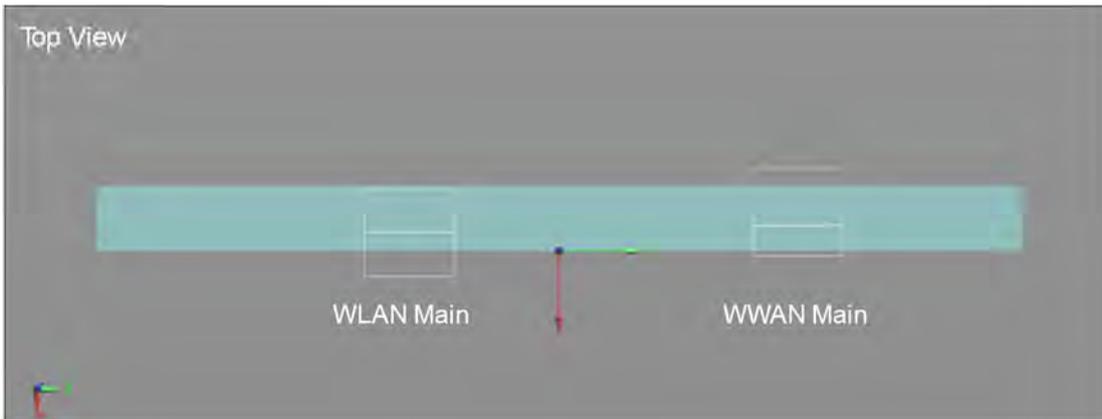
## LTE Band 2



## LTE Band 4



## LTE Band 5

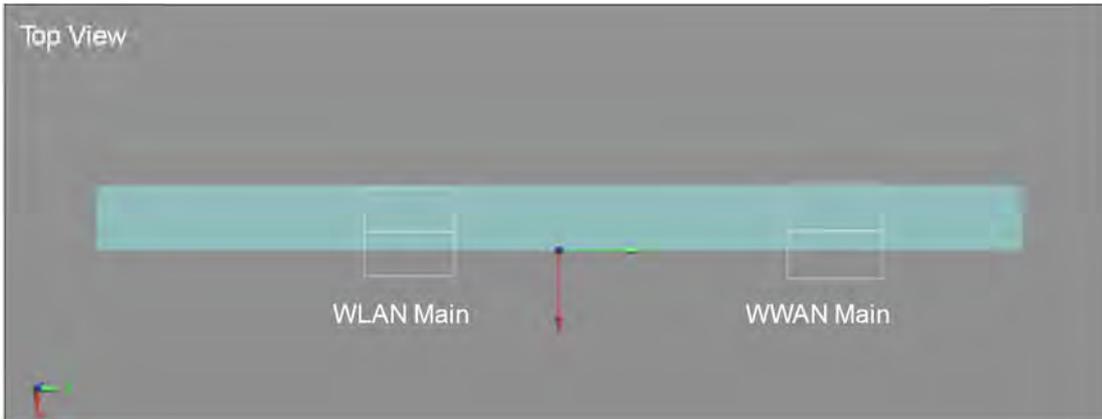


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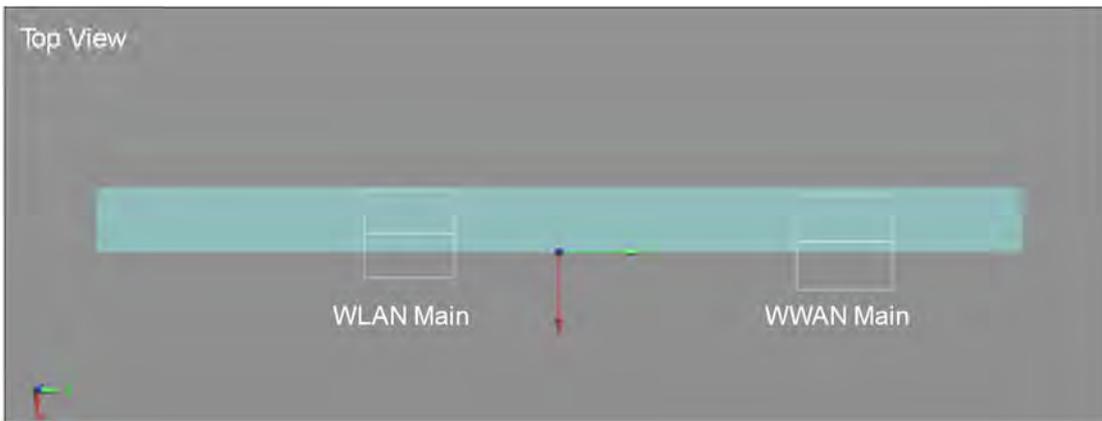
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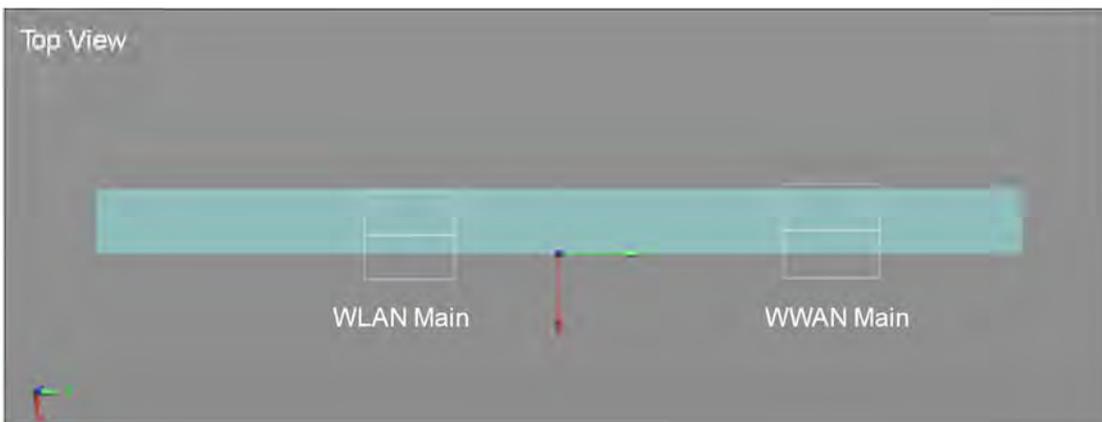
## LTE Band 7



## LTE Band 12



## LTE Band 13

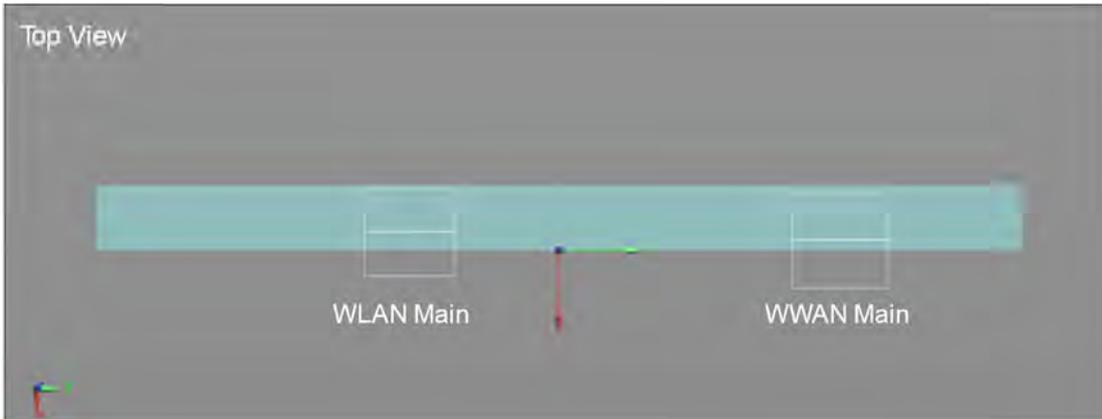


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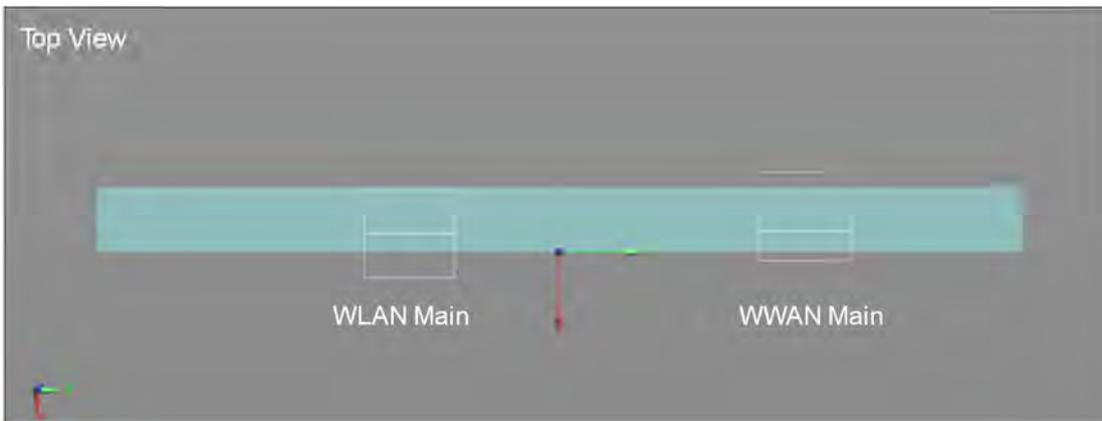
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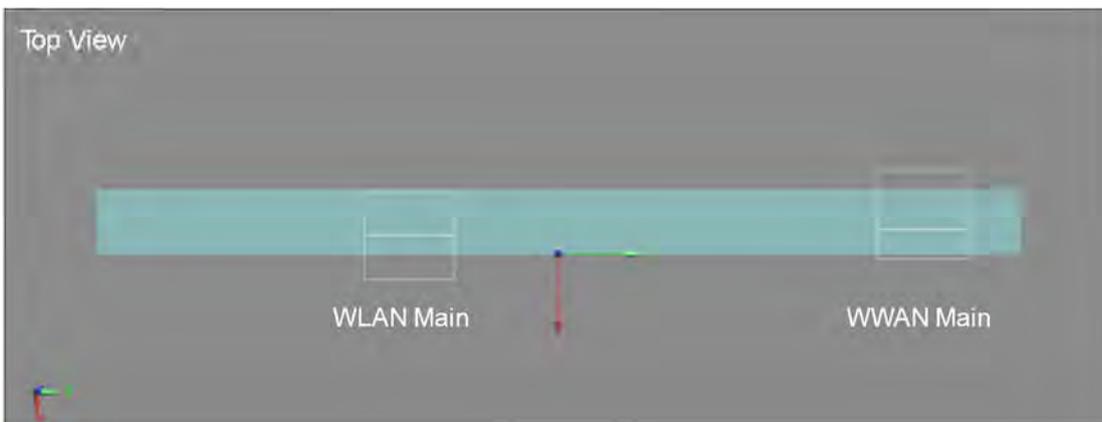
## LTE Band 17



## LTE Band 26



## LTE Band 30

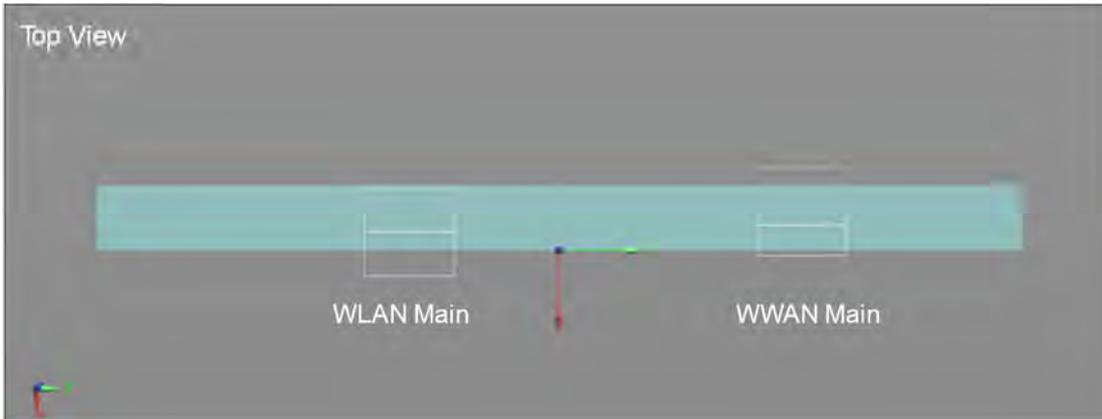


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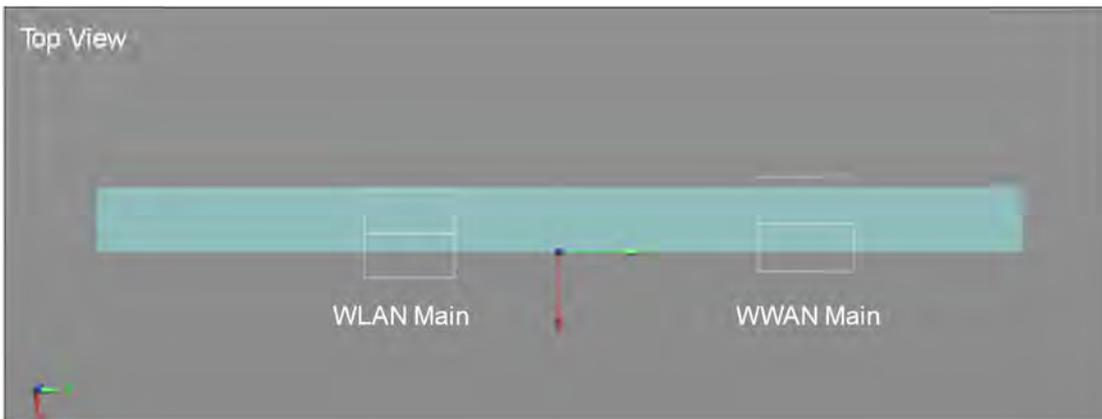
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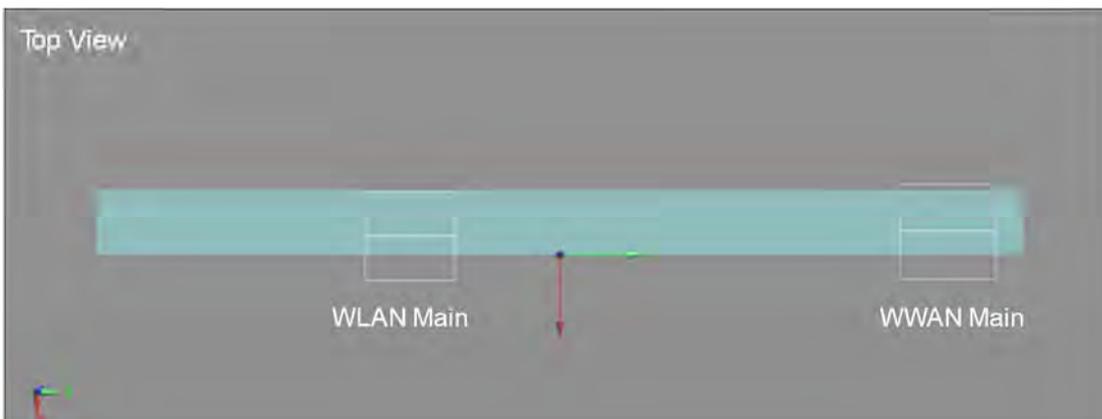
### LTE Band 38



### LTE Band 41



### LTE Band 66



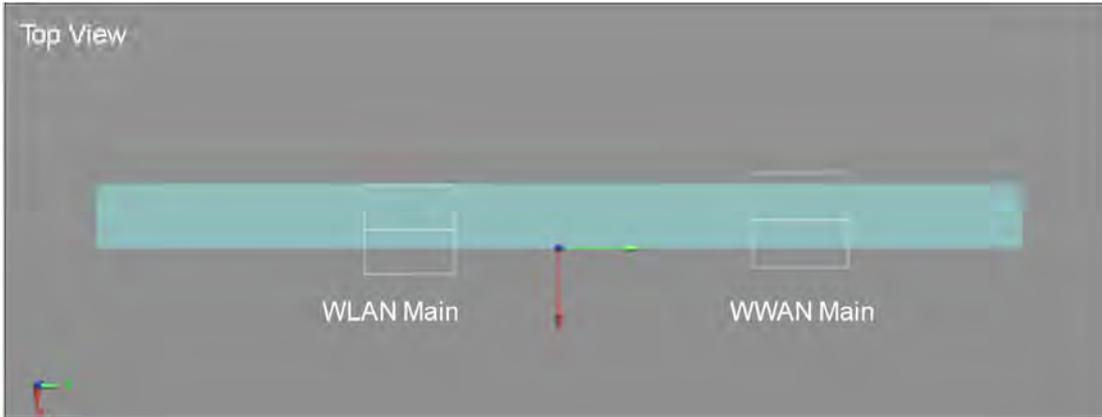
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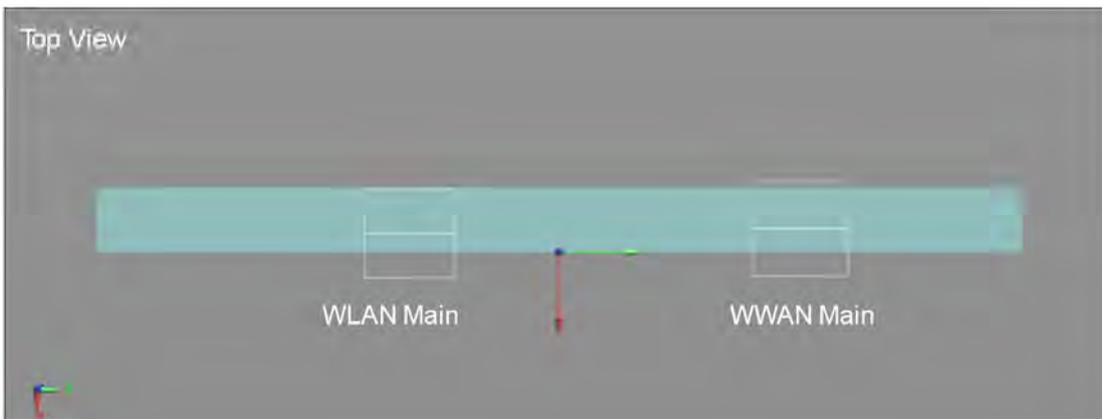
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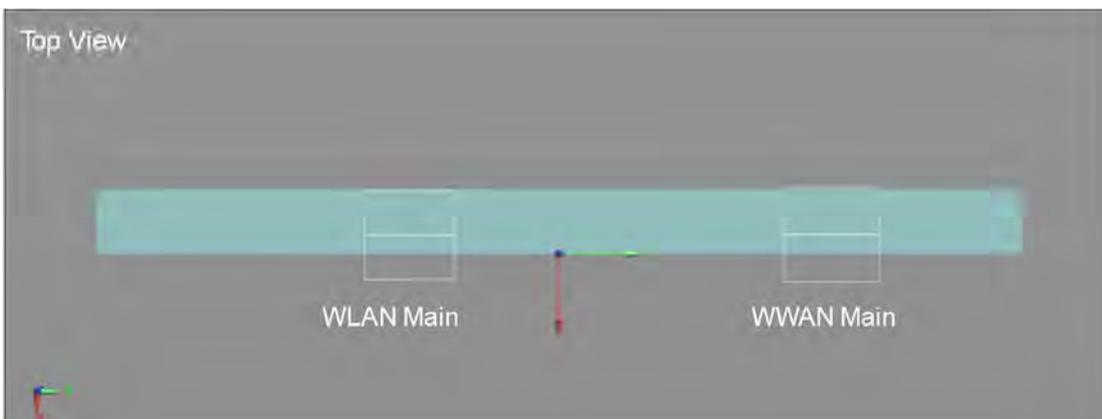
### WCDMA Band 2



### WCDMA Band 4



### WCDMA Band 5

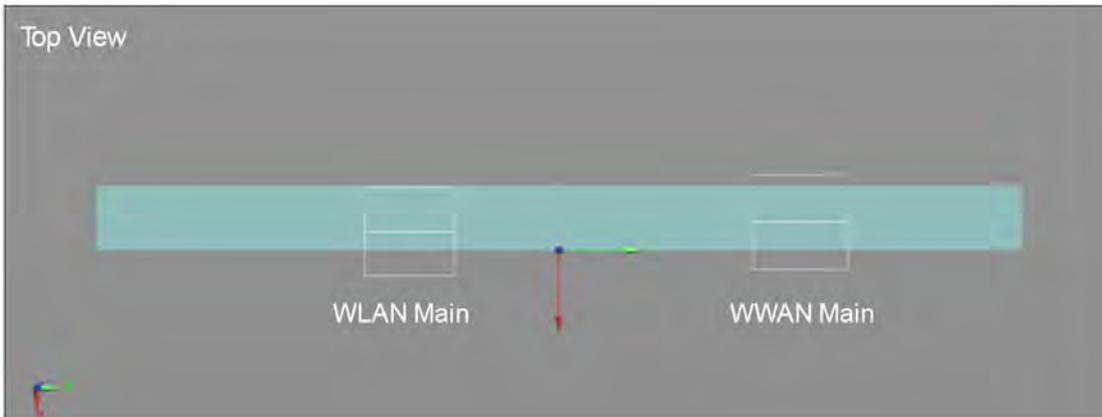


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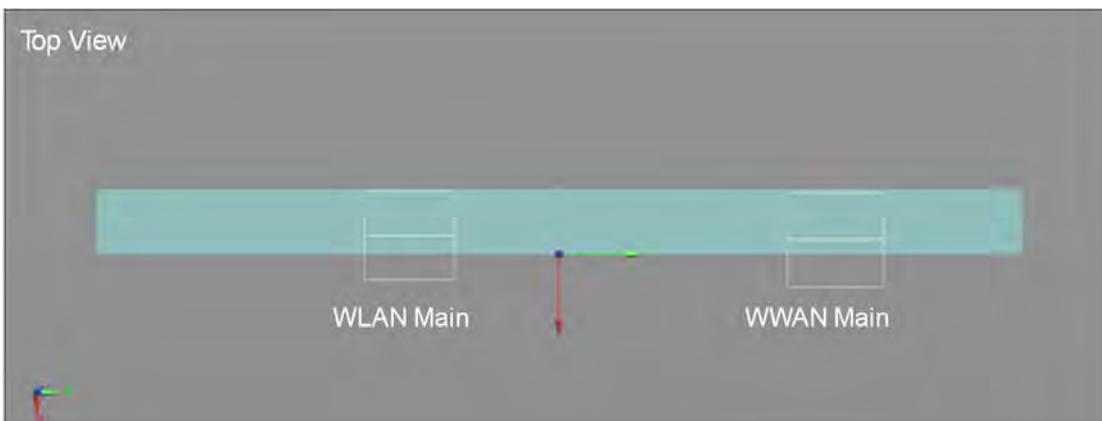
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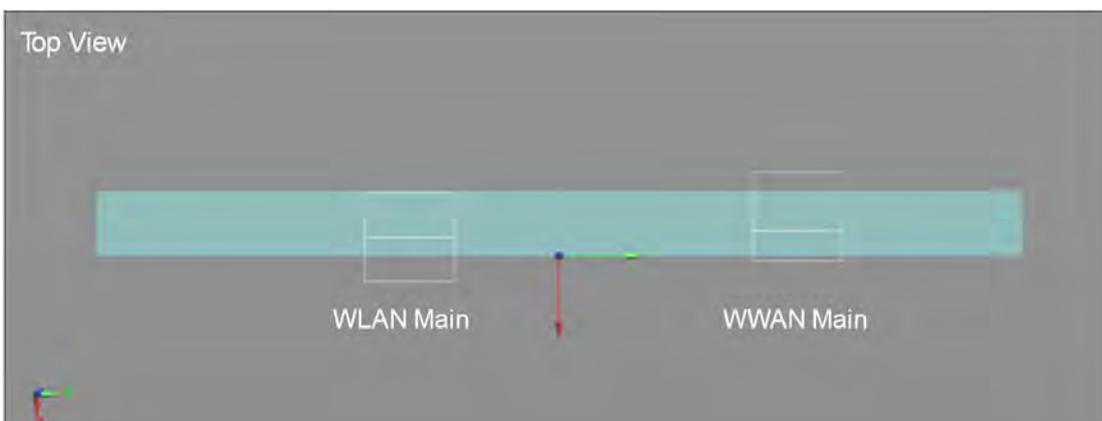
### LTE Band 2



### LTE Band 4



### LTE Band 5

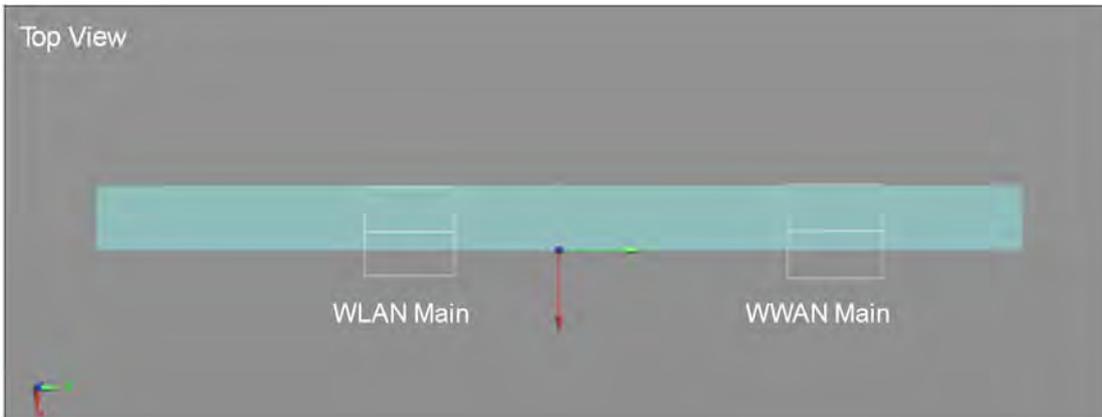


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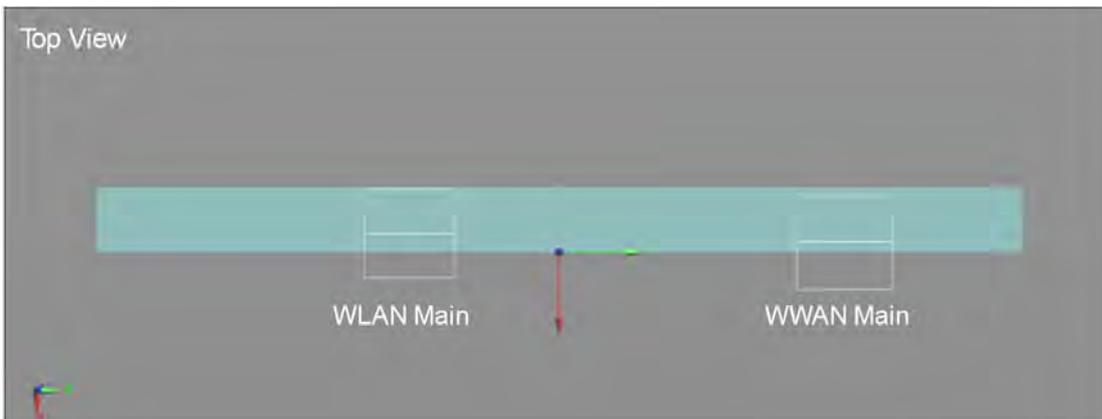
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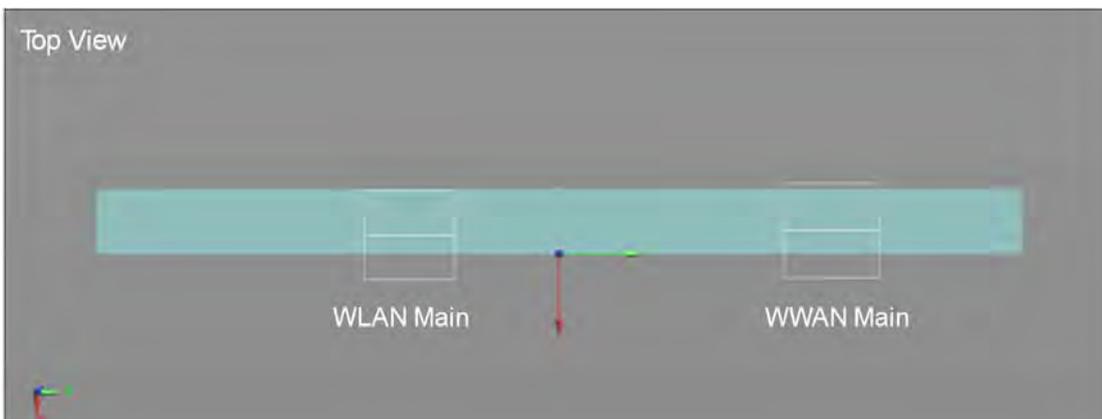
## LTE Band 7



## LTE Band 12



## LTE Band 13

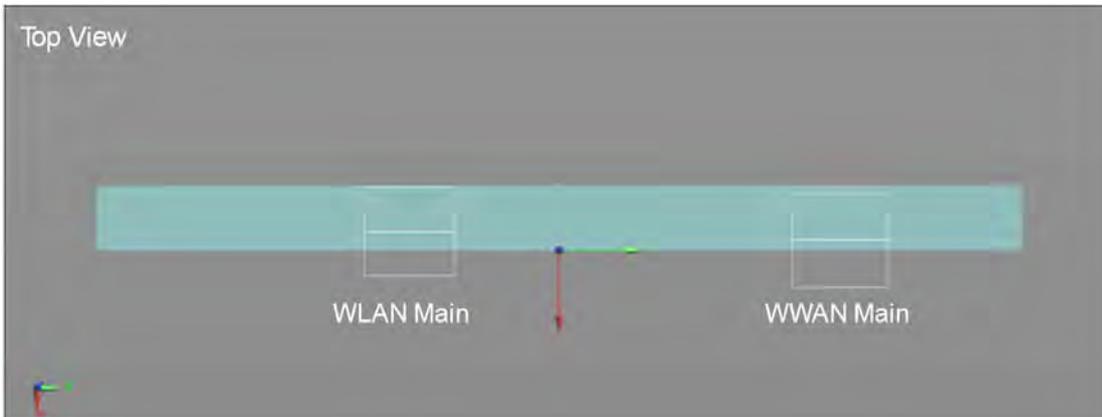


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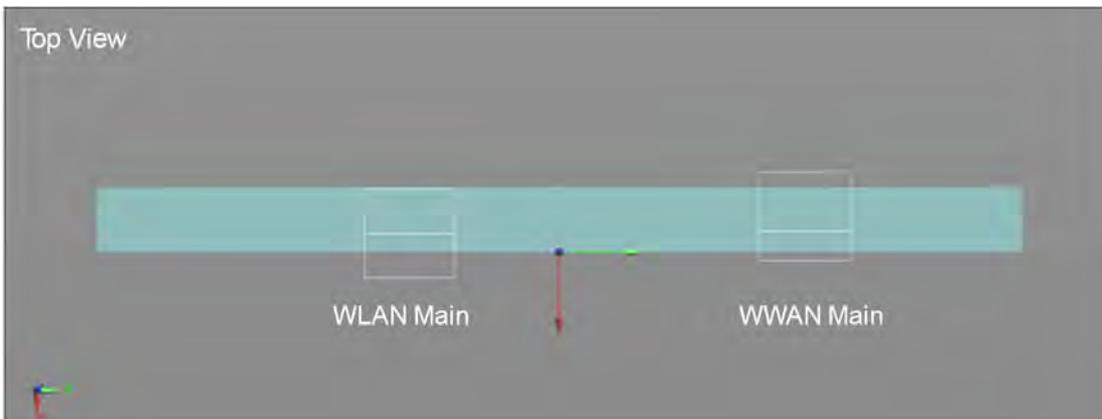
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## LTE Band 17



## LTE Band 26



## LTE Band 30

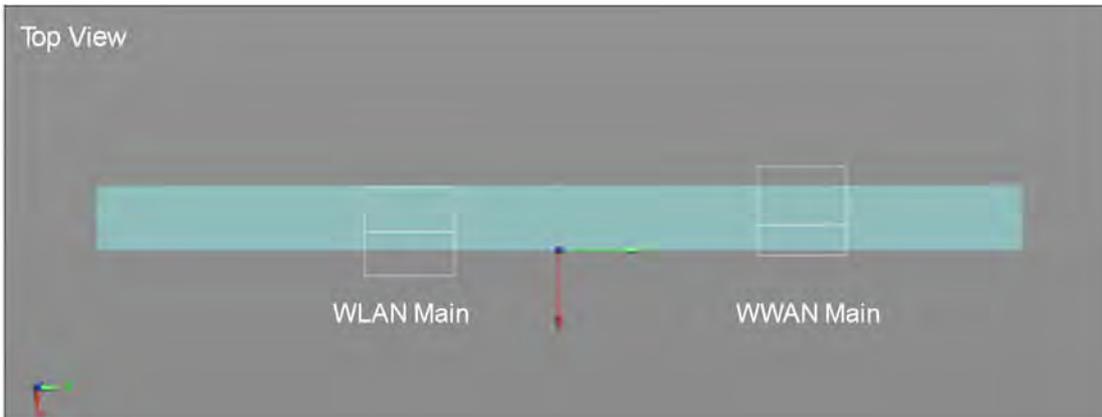


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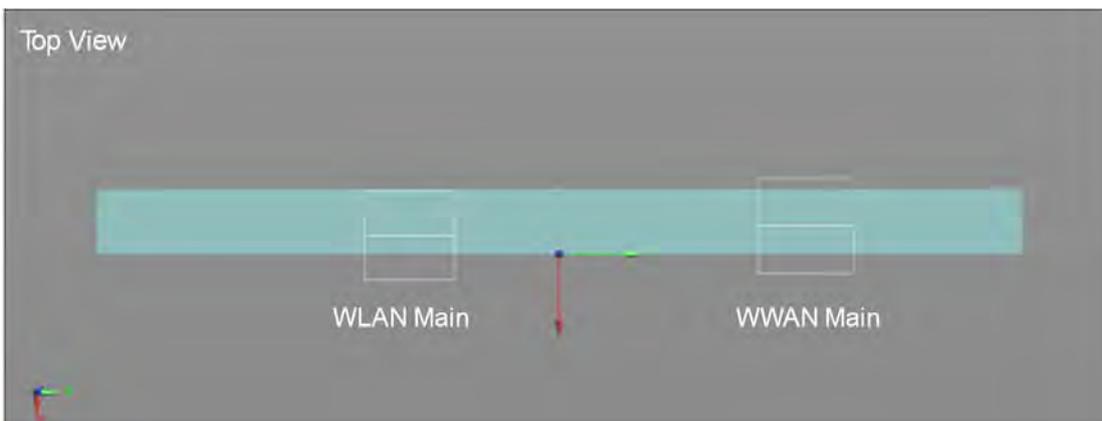
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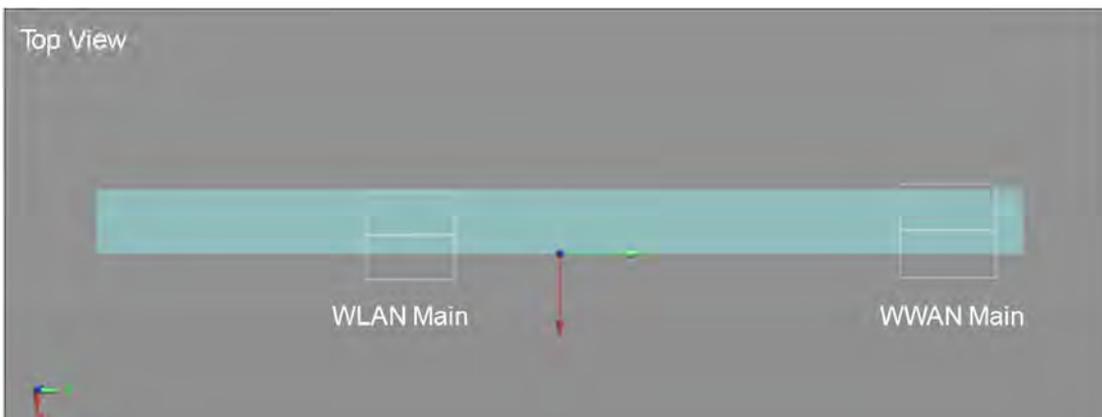
### LTE Band 38



### LTE Band 41



### LTE Band 66



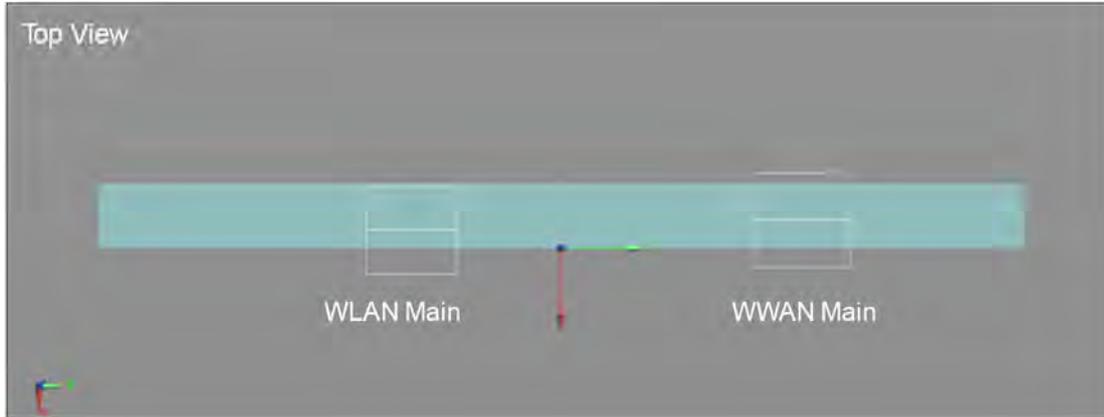
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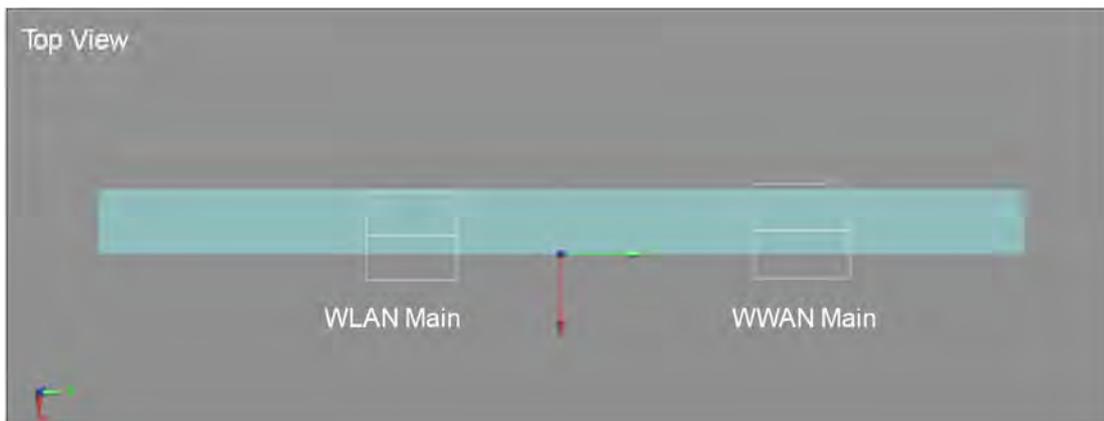
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Top\_BT→WWAN

WCDMA Band 2



WCDMA Band 4



WCDMA Band 5

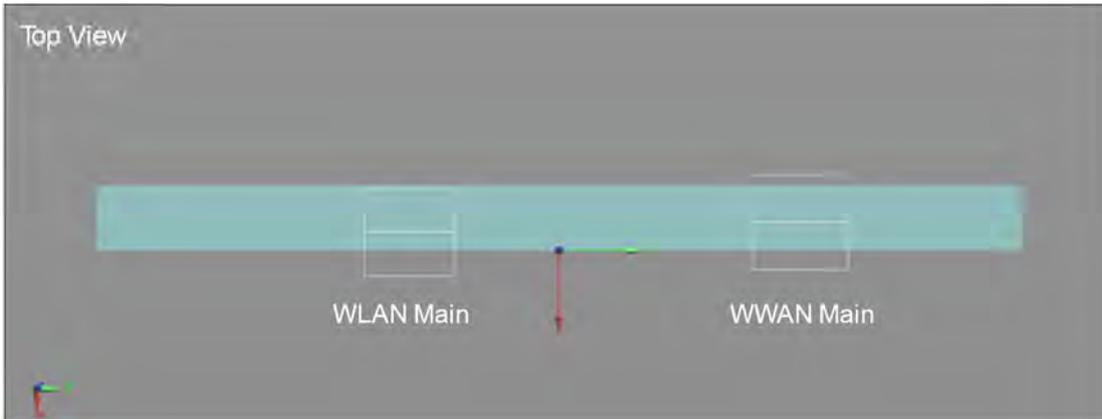


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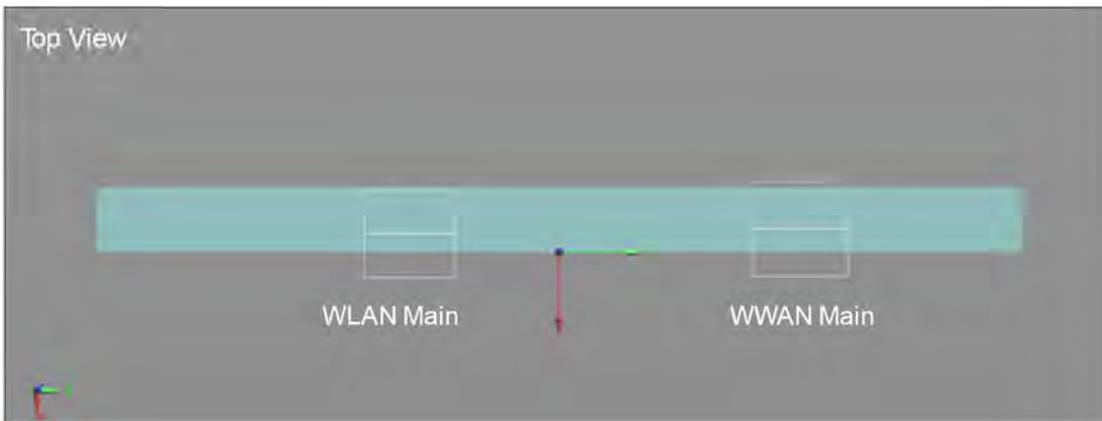
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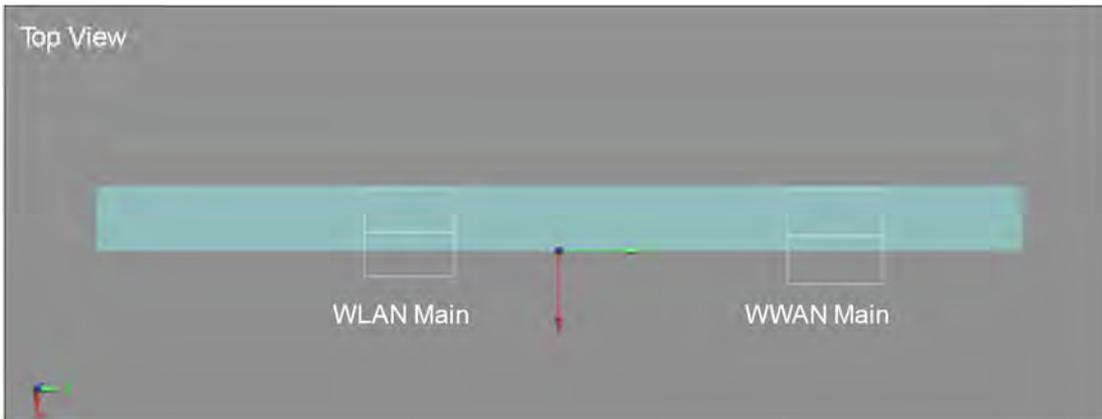
## LTE Band 2



## LTE Band 4



## LTE Band 5

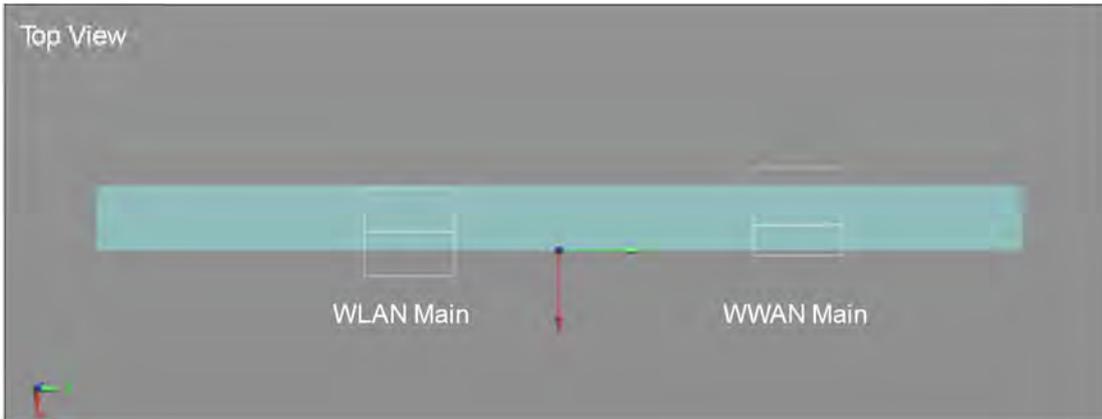


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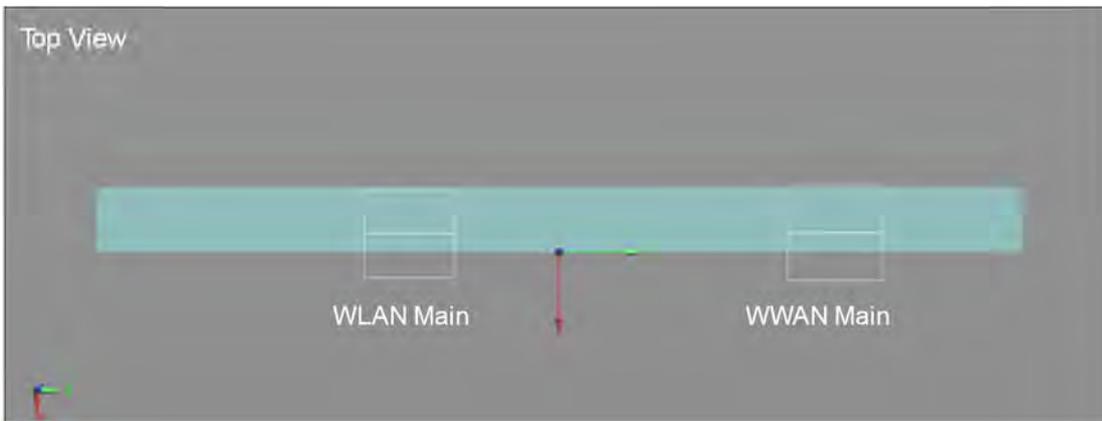
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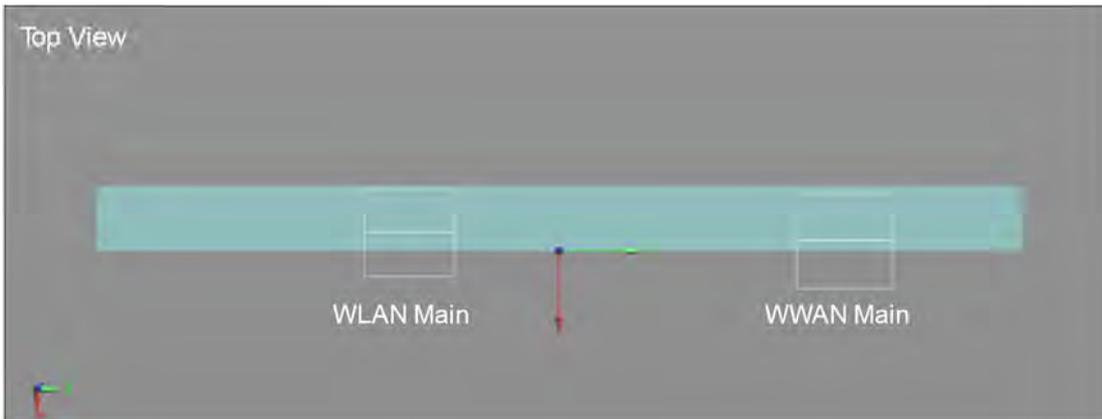
## LTE Band 7



## LTE Band 12



## LTE Band 13

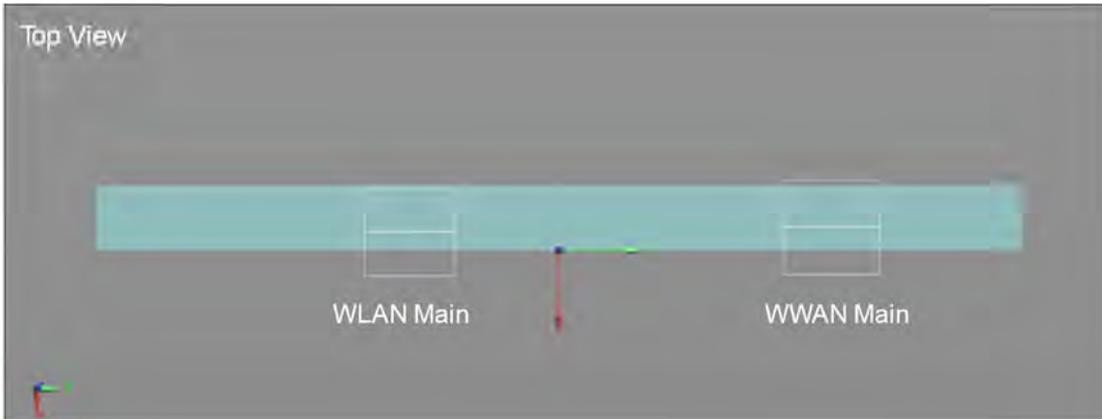


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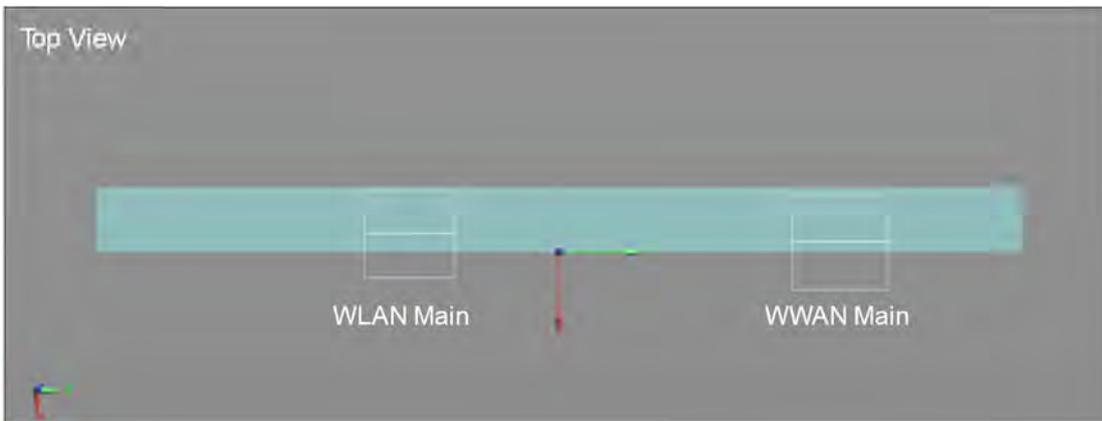
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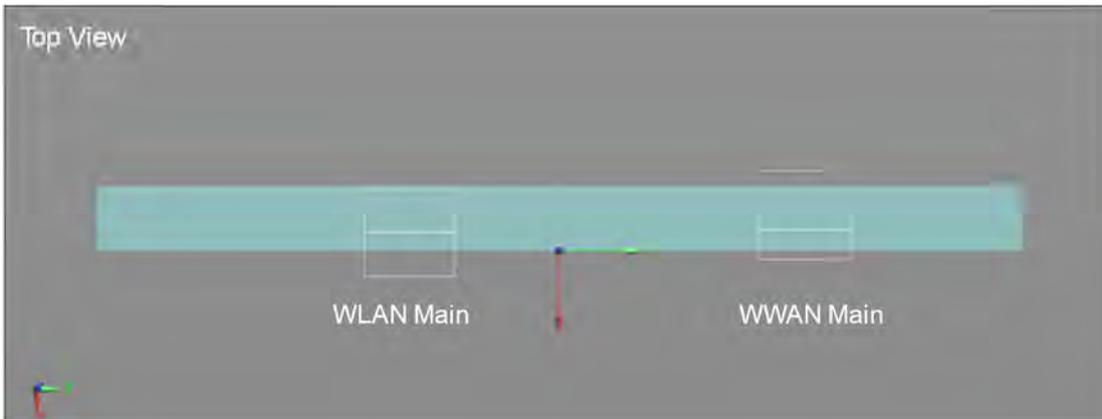
### LTE Band 17



### LTE Band 26



### LTE Band 30

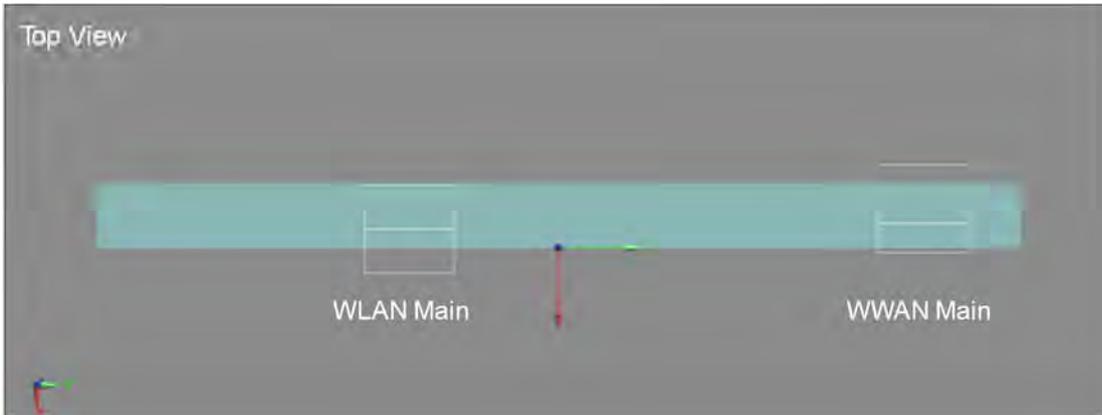


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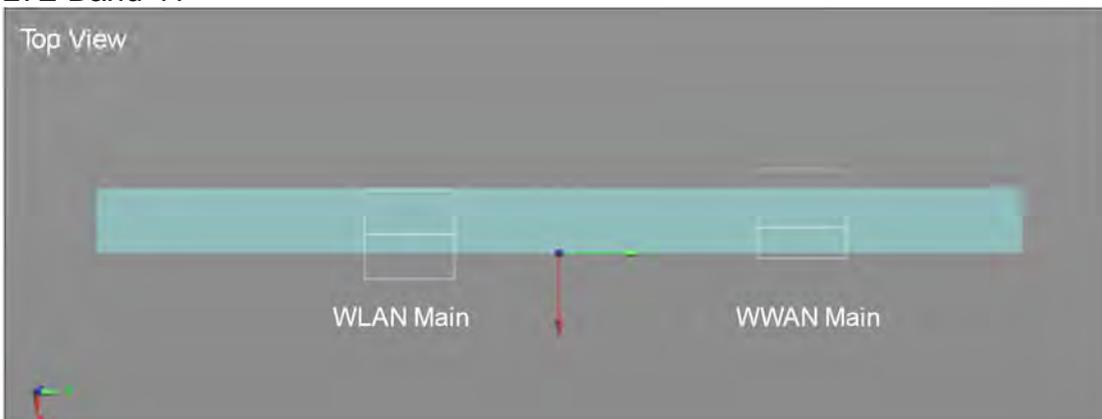
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### LTE Band 38



### LTE Band 41



### LTE Band 66



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## Bottom side WWAN + 2.4G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
9	Bottom side	WCDMA Band 2	0	0.032	0.038	0.074	0.144	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.031	0.038	0.074	0.143	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.029	0.038	0.074	0.141	ΣSAR<1.6, Not required
		LTE Band 2	0	0.029	0.038	0.074	0.141	ΣSAR<1.6, Not required
		LTE Band 4	0	0.031	0.038	0.074	0.143	ΣSAR<1.6, Not required
		LTE Band 5	0	0.323	0.038	0.074	0.435	ΣSAR<1.6, Not required
		LTE Band 7	0	0.032	0.038	0.074	0.144	ΣSAR<1.6, Not required
		LTE Band 12	0	0.035	0.038	0.074	0.147	ΣSAR<1.6, Not required
		LTE Band 13	0	0.032	0.038	0.074	0.144	ΣSAR<1.6, Not required
		LTE Band 17	0	0.046	0.038	0.074	0.158	ΣSAR<1.6, Not required
		LTE Band 26	0	0.031	0.038	0.074	0.143	ΣSAR<1.6, Not required
		LTE Band 30	0	0.033	0.038	0.074	0.145	ΣSAR<1.6, Not required
		LTE Band 38	0	0.022	0.038	0.074	0.134	ΣSAR<1.6, Not required
		LTE Band 41	0	0.029	0.038	0.074	0.141	ΣSAR<1.6, Not required
LTE Band 66	0	0.028	0.038	0.074	0.140	ΣSAR<1.6, Not required		

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## Bottom side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
10	Bottom side	WCDMA Band 2	0	0.032	0.073	0.081	0.186	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.031	0.073	0.081	0.185	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.029	0.073	0.081	0.183	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.029	0.073	0.081	0.183	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.031	0.073	0.081	0.185	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.323	0.073	0.081	0.477	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.073	0.081	0.186	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.035	0.073	0.081	0.189	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.032	0.073	0.081	0.186	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.046	0.073	0.081	0.200	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.031	0.073	0.081	0.185	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.033	0.073	0.081	0.187	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.022	0.073	0.081	0.176	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.029	0.073	0.081	0.183	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.028	0.073	0.081	0.182	$\Sigma$ SAR<1.6, Not required		

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## Bottom side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
11	Bottom side	WCDMA Band 2	0	0.032	0.038	0.006	0.076	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.031	0.038	0.006	0.075	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.029	0.038	0.006	0.073	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.029	0.038	0.006	0.073	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.031	0.038	0.006	0.075	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.323	0.038	0.006	0.367	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.038	0.006	0.076	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.035	0.038	0.006	0.079	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.032	0.038	0.006	0.076	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.046	0.038	0.006	0.090	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.031	0.038	0.006	0.075	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.033	0.038	0.006	0.077	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.022	0.038	0.006	0.066	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.029	0.038	0.006	0.073	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.028	0.038	0.006	0.072	$\Sigma$ SAR<1.6, Not required		

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## Bottom side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
12	Bottom side	WCDMA Band 2	0	0.032	0.073	0.006	0.111	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.031	0.073	0.006	0.110	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.029	0.073	0.006	0.108	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.029	0.073	0.006	0.108	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.031	0.073	0.006	0.110	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.323	0.073	0.006	0.402	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.073	0.006	0.111	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.035	0.073	0.006	0.114	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.032	0.073	0.006	0.111	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.046	0.073	0.006	0.125	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.031	0.073	0.006	0.110	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.033	0.073	0.006	0.112	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.022	0.073	0.006	0.101	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.029	0.073	0.006	0.108	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.028	0.073	0.006	0.107	$\Sigma$ SAR<1.6, Not required		

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## Right side WWAN + 2.4G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
13	Right side	WCDMA Band 2	0	0.515	0.041	0.077	0.633	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.484	0.041	0.077	0.602	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.474	0.041	0.077	0.592	ΣSAR<1.6, Not required
		LTE Band 2	0	0.467	0.041	0.077	0.585	ΣSAR<1.6, Not required
		LTE Band 4	0	0.482	0.041	0.077	0.600	ΣSAR<1.6, Not required
		LTE Band 5	0	0.501	0.041	0.077	0.619	ΣSAR<1.6, Not required
		LTE Band 7	0	0.460	0.041	0.077	0.578	ΣSAR<1.6, Not required
		LTE Band 12	0	0.540	0.041	0.077	0.658	ΣSAR<1.6, Not required
		LTE Band 13	0	0.486	0.041	0.077	0.604	ΣSAR<1.6, Not required
		LTE Band 17	0	0.504	0.041	0.077	0.622	ΣSAR<1.6, Not required
		LTE Band 26	0	0.497	0.041	0.077	0.615	ΣSAR<1.6, Not required
		LTE Band 30	0	0.478	0.041	0.077	0.596	ΣSAR<1.6, Not required
		LTE Band 38	0	0.487	0.041	0.077	0.605	ΣSAR<1.6, Not required
		LTE Band 41	0	0.438	0.041	0.077	0.556	ΣSAR<1.6, Not required
LTE Band 66	0	0.493	0.041	0.077	0.611	ΣSAR<1.6, Not required		

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## Right side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
14	Right side	WCDMA Band 2	0	0.515	0.077	0.092	0.684	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.484	0.077	0.092	0.653	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.474	0.077	0.092	0.643	ΣSAR<1.6, Not required
		LTE Band 2	0	0.467	0.077	0.092	0.636	ΣSAR<1.6, Not required
		LTE Band 4	0	0.482	0.077	0.092	0.651	ΣSAR<1.6, Not required
		LTE Band 5	0	0.501	0.077	0.092	0.670	ΣSAR<1.6, Not required
		LTE Band 7	0	0.460	0.077	0.092	0.629	ΣSAR<1.6, Not required
		LTE Band 12	0	0.540	0.077	0.092	0.709	ΣSAR<1.6, Not required
		LTE Band 13	0	0.486	0.077	0.092	0.655	ΣSAR<1.6, Not required
		LTE Band 17	0	0.504	0.077	0.092	0.673	ΣSAR<1.6, Not required
		LTE Band 26	0	0.497	0.077	0.092	0.666	ΣSAR<1.6, Not required
		LTE Band 30	0	0.478	0.077	0.092	0.647	ΣSAR<1.6, Not required
		LTE Band 38	0	0.487	0.077	0.092	0.656	ΣSAR<1.6, Not required
		LTE Band 41	0	0.438	0.077	0.092	0.607	ΣSAR<1.6, Not required
LTE Band 66	0	0.493	0.077	0.092	0.662	ΣSAR<1.6, Not required		

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## Right side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
15	Right side	WCDMA Band 2	0	0.515	0.041	0.005	0.561	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.484	0.041	0.005	0.530	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.474	0.041	0.005	0.520	ΣSAR<1.6, Not required
		LTE Band 2	0	0.467	0.041	0.005	0.513	ΣSAR<1.6, Not required
		LTE Band 4	0	0.482	0.041	0.005	0.528	ΣSAR<1.6, Not required
		LTE Band 5	0	0.501	0.041	0.005	0.547	ΣSAR<1.6, Not required
		LTE Band 7	0	0.460	0.041	0.005	0.506	ΣSAR<1.6, Not required
		LTE Band 12	0	0.540	0.041	0.005	0.586	ΣSAR<1.6, Not required
		LTE Band 13	0	0.486	0.041	0.005	0.532	ΣSAR<1.6, Not required
		LTE Band 17	0	0.504	0.041	0.005	0.550	ΣSAR<1.6, Not required
		LTE Band 26	0	0.497	0.041	0.005	0.543	ΣSAR<1.6, Not required
		LTE Band 30	0	0.478	0.041	0.005	0.524	ΣSAR<1.6, Not required
		LTE Band 38	0	0.487	0.041	0.005	0.533	ΣSAR<1.6, Not required
		LTE Band 41	0	0.438	0.041	0.005	0.484	ΣSAR<1.6, Not required
LTE Band 66	0	0.493	0.041	0.005	0.539	ΣSAR<1.6, Not required		

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## Right side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
16	Right side	WCDMA Band 2	0	0.515	0.077	0.005	0.597	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.484	0.077	0.005	0.566	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.474	0.077	0.005	0.556	ΣSAR<1.6, Not required
		LTE Band 2	0	0.467	0.077	0.005	0.549	ΣSAR<1.6, Not required
		LTE Band 4	0	0.482	0.077	0.005	0.564	ΣSAR<1.6, Not required
		LTE Band 5	0	0.501	0.077	0.005	0.583	ΣSAR<1.6, Not required
		LTE Band 7	0	0.460	0.077	0.005	0.542	ΣSAR<1.6, Not required
		LTE Band 12	0	0.540	0.077	0.005	0.622	ΣSAR<1.6, Not required
		LTE Band 13	0	0.486	0.077	0.005	0.568	ΣSAR<1.6, Not required
		LTE Band 17	0	0.504	0.077	0.005	0.586	ΣSAR<1.6, Not required
		LTE Band 26	0	0.497	0.077	0.005	0.579	ΣSAR<1.6, Not required
		LTE Band 30	0	0.478	0.077	0.005	0.560	ΣSAR<1.6, Not required
		LTE Band 38	0	0.487	0.077	0.005	0.569	ΣSAR<1.6, Not required
		LTE Band 41	0	0.438	0.077	0.005	0.520	ΣSAR<1.6, Not required
LTE Band 66	0	0.493	0.077	0.005	0.575	ΣSAR<1.6, Not required		

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## Left side WWAN + 2.4G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
17	Left side	WCDMA Band 2	0	0.046	0.309	0.451	0.806	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.054	0.309	0.451	0.814	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.053	0.309	0.451	0.813	ΣSAR<1.6, Not required
		LTE Band 2	0	0.046	0.309	0.451	0.806	ΣSAR<1.6, Not required
		LTE Band 4	0	0.056	0.309	0.451	0.816	ΣSAR<1.6, Not required
		LTE Band 5	0	0.062	0.309	0.451	0.822	ΣSAR<1.6, Not required
		LTE Band 7	0	0.055	0.309	0.451	0.815	ΣSAR<1.6, Not required
		LTE Band 12	0	0.056	0.309	0.451	0.816	ΣSAR<1.6, Not required
		LTE Band 13	0	0.048	0.309	0.451	0.808	ΣSAR<1.6, Not required
		LTE Band 17	0	0.072	0.309	0.451	0.832	ΣSAR<1.6, Not required
		LTE Band 26	0	0.058	0.309	0.451	0.818	ΣSAR<1.6, Not required
		LTE Band 30	0	0.047	0.309	0.451	0.807	ΣSAR<1.6, Not required
		LTE Band 38	0	0.041	0.309	0.451	0.801	ΣSAR<1.6, Not required
		LTE Band 41	0	0.052	0.309	0.451	0.812	ΣSAR<1.6, Not required
LTE Band 66	0	0.057	0.309	0.451	0.817	ΣSAR<1.6, Not required		

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## Left side WWAN + 5G WLAN

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
18	Left side	WCDMA Band 2	0	0.046	0.564	0.511	1.121	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.054	0.564	0.511	1.129	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.053	0.564	0.511	1.128	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.046	0.564	0.511	1.121	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.056	0.564	0.511	1.131	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.062	0.564	0.511	1.137	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.055	0.564	0.511	1.130	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.056	0.564	0.511	1.131	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.048	0.564	0.511	1.123	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.072	0.564	0.511	1.147	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.058	0.564	0.511	1.133	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.047	0.564	0.511	1.122	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.041	0.564	0.511	1.116	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.052	0.564	0.511	1.127	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.057	0.564	0.511	1.132	$\Sigma$ SAR<1.6, Not required		

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## Left side WWAN + 2.4G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
19	Left side	WCDMA Band 2	0	0.046	0.309	0.118	0.473	ΣSAR<1.6, Not required
		WCDMA Band 4	0	0.054	0.309	0.118	0.481	ΣSAR<1.6, Not required
		WCDMA Band 5	0	0.053	0.309	0.118	0.480	ΣSAR<1.6, Not required
		LTE Band 2	0	0.046	0.309	0.118	0.473	ΣSAR<1.6, Not required
		LTE Band 4	0	0.056	0.309	0.118	0.483	ΣSAR<1.6, Not required
		LTE Band 5	0	0.062	0.309	0.118	0.489	ΣSAR<1.6, Not required
		LTE Band 7	0	0.055	0.309	0.118	0.482	ΣSAR<1.6, Not required
		LTE Band 12	0	0.056	0.309	0.118	0.483	ΣSAR<1.6, Not required
		LTE Band 13	0	0.048	0.309	0.118	0.475	ΣSAR<1.6, Not required
		LTE Band 17	0	0.072	0.309	0.118	0.499	ΣSAR<1.6, Not required
		LTE Band 26	0	0.058	0.309	0.118	0.485	ΣSAR<1.6, Not required
		LTE Band 30	0	0.047	0.309	0.118	0.474	ΣSAR<1.6, Not required
		LTE Band 38	0	0.041	0.309	0.118	0.468	ΣSAR<1.6, Not required
		LTE Band 41	0	0.052	0.309	0.118	0.479	ΣSAR<1.6, Not required
LTE Band 66	0	0.057	0.309	0.118	0.484	ΣSAR<1.6, Not required		

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## Left side WWAN + 5G WLAN Main + BT

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	Bluetooth	SAR Sum	SPLSR
20	Left side	WCDMA Band 2	0	0.046	0.564	0.118	0.728	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 4	0	0.054	0.564	0.118	0.736	$\Sigma$ SAR<1.6, Not required
		WCDMA Band 5	0	0.053	0.564	0.118	0.735	$\Sigma$ SAR<1.6, Not required
		LTE Band 2	0	0.046	0.564	0.118	0.728	$\Sigma$ SAR<1.6, Not required
		LTE Band 4	0	0.056	0.564	0.118	0.738	$\Sigma$ SAR<1.6, Not required
		LTE Band 5	0	0.062	0.564	0.118	0.744	$\Sigma$ SAR<1.6, Not required
		LTE Band 7	0	0.055	0.564	0.118	0.737	$\Sigma$ SAR<1.6, Not required
		LTE Band 12	0	0.056	0.564	0.118	0.738	$\Sigma$ SAR<1.6, Not required
		LTE Band 13	0	0.048	0.564	0.118	0.730	$\Sigma$ SAR<1.6, Not required
		LTE Band 17	0	0.072	0.564	0.118	0.754	$\Sigma$ SAR<1.6, Not required
		LTE Band 26	0	0.058	0.564	0.118	0.740	$\Sigma$ SAR<1.6, Not required
		LTE Band 30	0	0.047	0.564	0.118	0.729	$\Sigma$ SAR<1.6, Not required
		LTE Band 38	0	0.041	0.564	0.118	0.723	$\Sigma$ SAR<1.6, Not required
		LTE Band 41	0	0.052	0.564	0.118	0.734	$\Sigma$ SAR<1.6, Not required
LTE Band 66	0	0.057	0.564	0.118	0.739	$\Sigma$ SAR<1.6, Not required		

**Conclusion:**

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

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## 4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	3770	Apr.25,2018	Apr.24,2019
			3938	Oct.24,2018	Oct.23,2019
SPEAG	System Validation Dipole	D750V3	1015	Aug.23,2018	Aug.22,2019
			4d063	Aug.23,2018	Aug.22,2019
			1008	Aug.30,2018	Aug.29,2019
			5d173	Apr.25,2018	Apr.24,2019
			1023	Aug.24,2018	Aug.23,2019
			727	Apr.24,2018	Apr.23,2019
			1058	Jun.19,2018	Jun.18,2019
			1023	Jan.25,2018	Jan.24,2019
SPEAG	Data acquisition Electronics	DAE4	856	Apr.21,2018	Apr.20,2019
			1336	Aug.06,2018	Aug.05,2019
SPEAG	Software	DASY 52 V52.10.1	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
Agilent	Network Analyzer	E5071C	MY46107530	Feb.26,2018	Feb.25,2019
Agilent	Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required
Agilent	Dual-directional coupler	772D	MY52180142	Jul.04,2018	Jul.03,2019
		778D	MY52180302	Jul.05,2018	Jul.04,2019
Agilent	RF Signal Generator	N5181A	MY50144143	Mar.15,2018	Mar.14,2019
Agilent	Power Meter	E4417A	MY52240003	Feb.01,2018	Jan.31,2019

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Agilent	Power Sensor	E9301H	MY52200003	Feb.01,2018	Jan.31,2019
			MY52200004	Feb.01,2018	Jan.31,2019
TECPEL	Digital thermometer	DTM-303A	TP130075	Mar.09,2018	Mar.08,2019
Anritsu	Radio Communication Test	MT8820C	6201061014	Mar.14,2018	Mar.13,2019
R&S	Radio Communication Test	CMW 500	143913	Apr.29.2018	Apr.28.2019

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## 5. Measurements

Date: 2019/1/22

### WCDMA Band II\_Body\_Top side\_CH 9262\_0mm

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

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.525$  S/m;  $\epsilon_r = 51.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8, 8, 8); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.26 W/kg

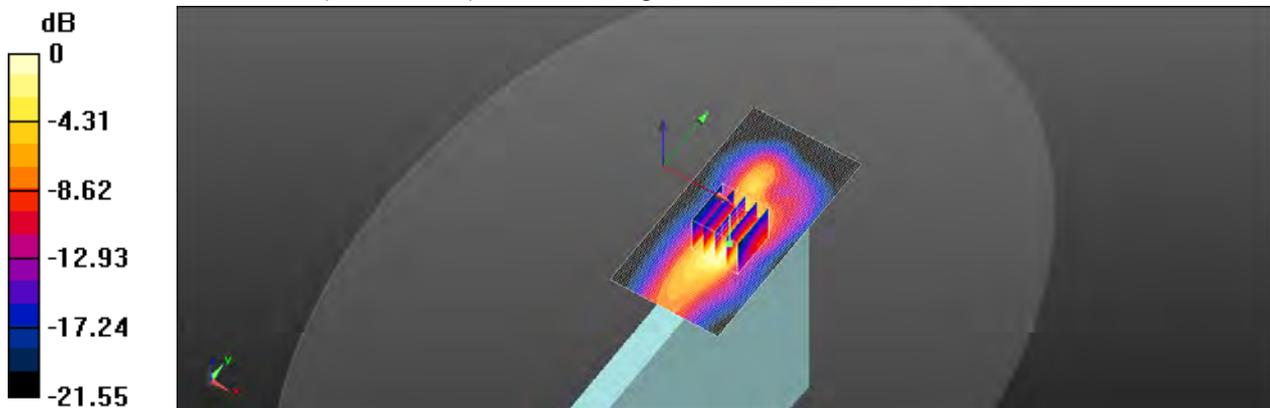
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.04 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.73 W/kg

**SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.597 W/kg**

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



0 dB = 1.93 W/kg = 2.86 dBW/kg

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Date: 2019/1/21

### WCDMA Band IV\_Body\_Top side\_CH 1513\_0mm

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

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.423$  S/m;  $\epsilon_r = 51.384$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.39 W/kg

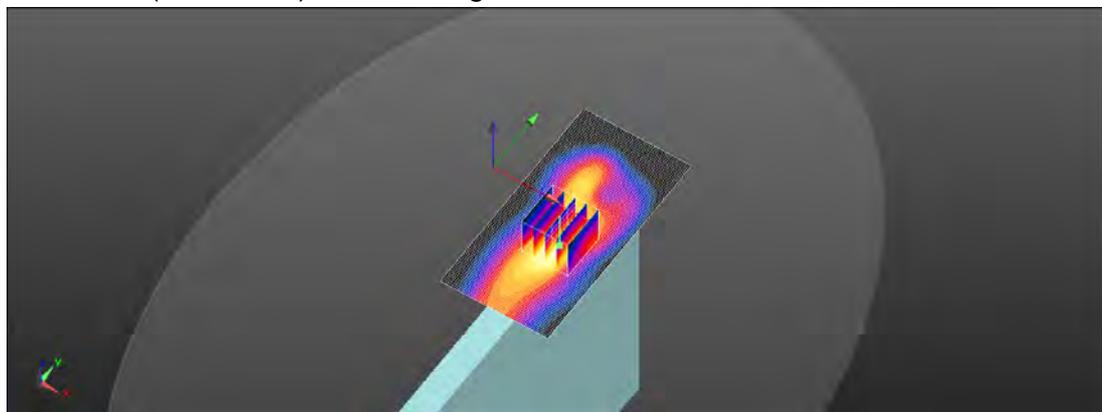
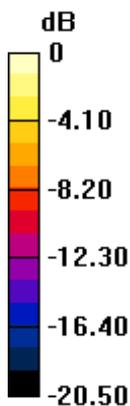
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.72 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.80 W/kg

**SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.629 W/kg**

Maximum value of SAR (measured) = 2.05 W/kg



0 dB = 2.05 W/kg = 3.12 dBW/kg

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Date: 2019/1/19

### WCDMA Band V\_Body\_Top side\_CH 4132\_0mm

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.986$  S/m;  $\epsilon_r = 57.29$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

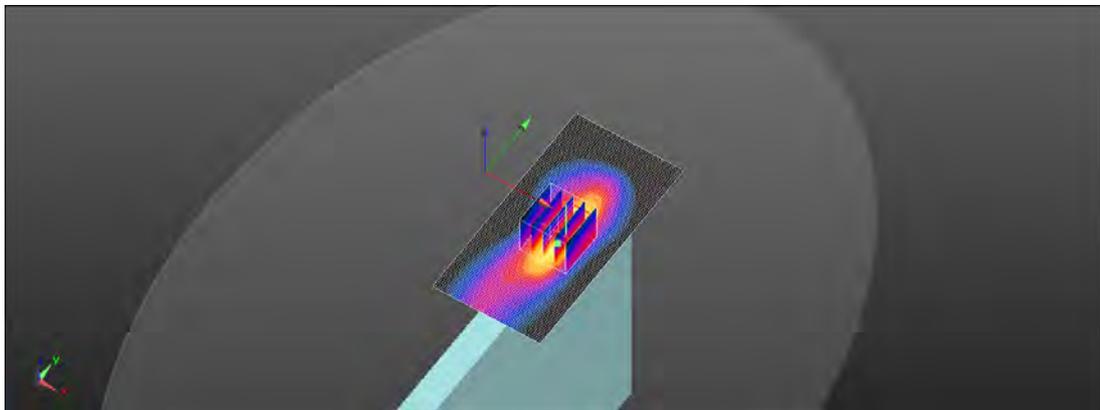
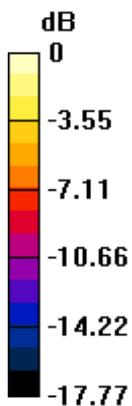
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.301 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.95 W/kg

**SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.577 W/kg**

Maximum value of SAR (measured) = 2.09 W/kg



0 dB = 2.09 W/kg = 3.20 dBW/kg

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Date: 2019/1/22

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

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

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.537$  S/m;  $\epsilon_r = 50.995$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.4°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(8, 8, 8); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.98 W/kg

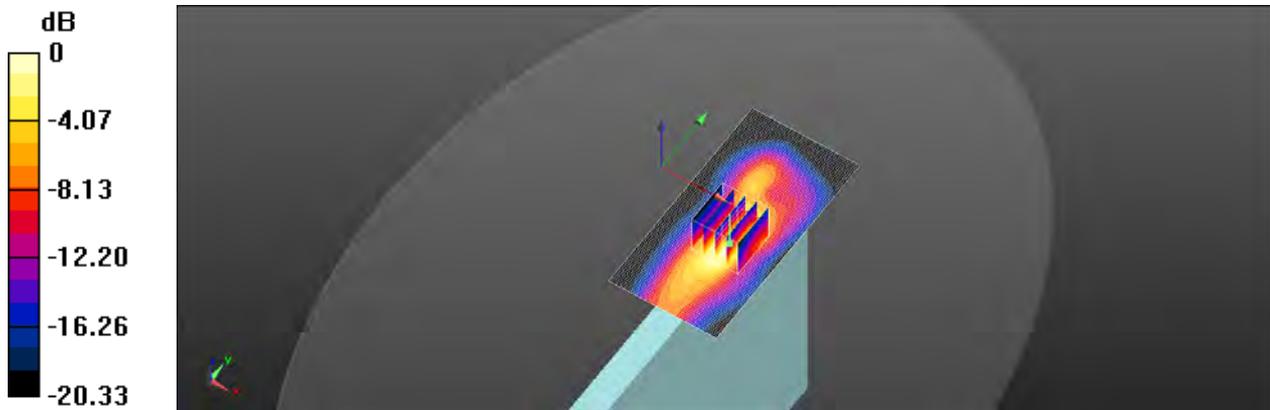
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.21 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.64 W/kg

**SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.572 W/kg**

Maximum value of SAR (measured) = 1.66 W/kg



0 dB = 1.66 W/kg = 2.20 dBW/kg

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Date: 2019/1/21

**LTE Band 4 (20MHz)\_Body\_Top side\_CH 20300\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.419 \text{ S/m}$ ;  $\epsilon_r = 51.404$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.99 W/kg

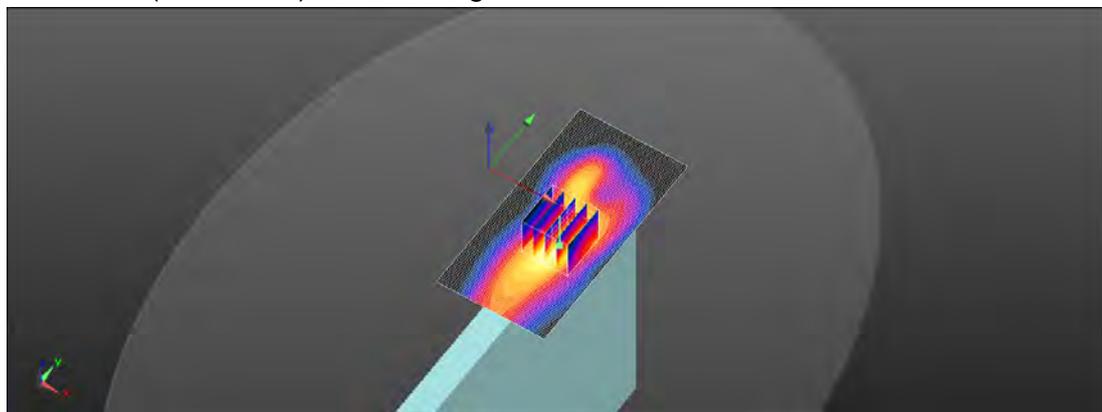
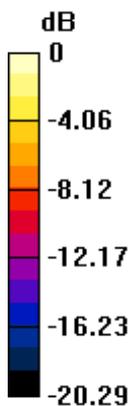
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.76 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.82 W/kg

**SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.628 W/kg**

Maximum value of SAR (measured) = 2.00 W/kg



0 dB = 2.00 W/kg = 3.01 dBW/kg

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Date: 2019/1/19

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

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

Medium parameters used:  $f = 829 \text{ MHz}$ ;  $\sigma = 0.988 \text{ S/m}$ ;  $\epsilon_r = 57.285$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.14 W/kg

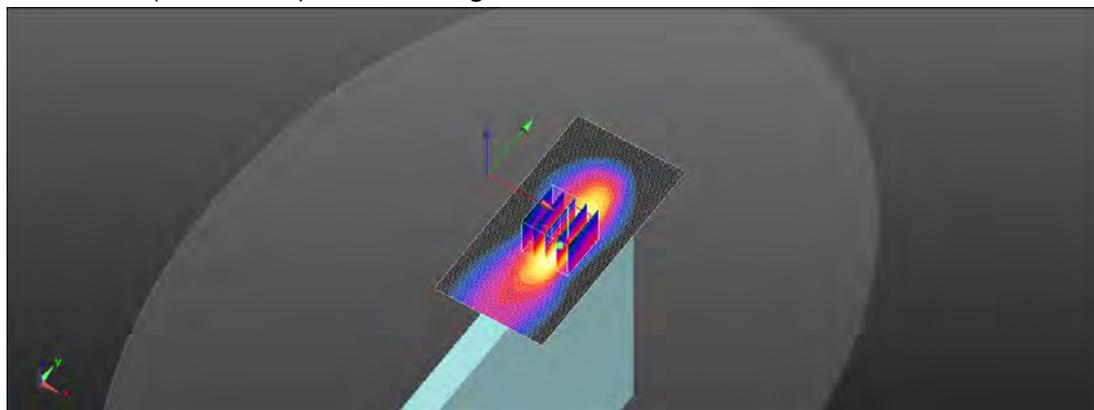
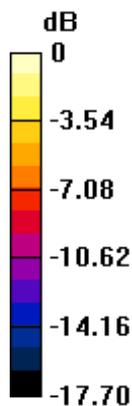
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.111 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.93 W/kg

**SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.570 W/kg**

Maximum value of SAR (measured) = 2.06 W/kg



0 dB = 2.06 W/kg = 3.14 dBW/kg

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Date: 2019/1/24

**LTE Band 7 (20MHz)\_Body\_Top side\_CH 20850\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 1.95$  S/m;  $\epsilon_r = 52.875$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.941 W/kg

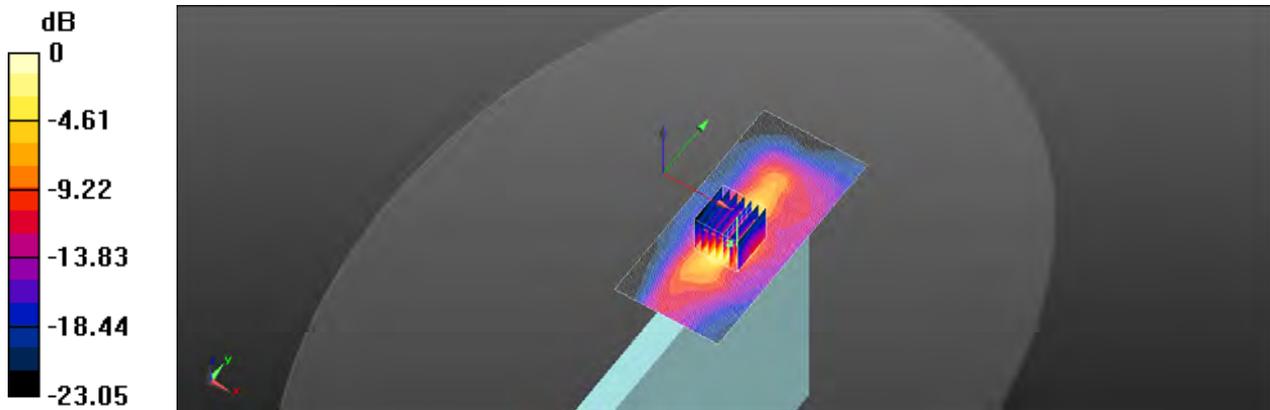
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.989 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.16 W/kg

**SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.301 W/kg**

Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

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Date: 2019/1/18

**LTE Band 12 (10MHz)\_Body\_Top side\_CH 23130\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711 \text{ MHz}$ ;  $\sigma = 0.934 \text{ S/m}$ ;  $\epsilon_r = 57.736$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.28 W/kg

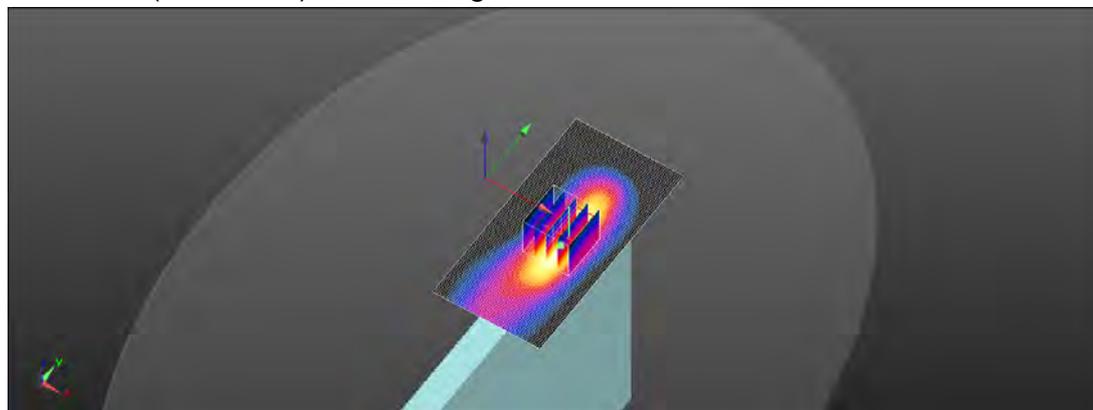
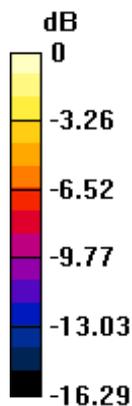
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.46 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 3.32 W/kg

**SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.667 W/kg**

Maximum value of SAR (measured) = 2.33 W/kg



0 dB = 2.33 W/kg = 3.67 dBW/kg

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Date: 2019/1/18

### LTE Band 13 (10MHz)\_Body\_Top side\_CH 23230\_QPSK\_1-0\_0mm

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

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 1.007 \text{ S/m}$ ;  $\epsilon_r = 57.284$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.38 W/kg

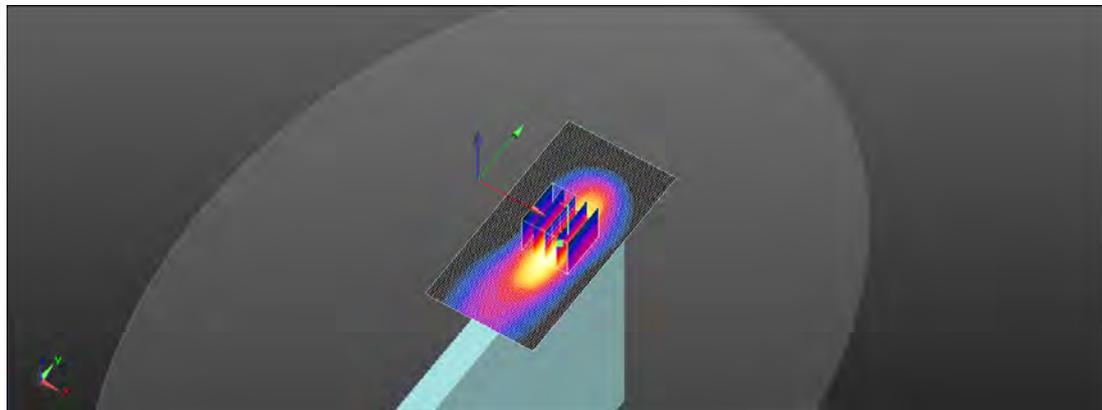
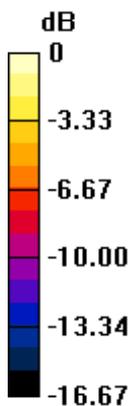
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.21 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 3.36 W/kg

**SAR(1 g) = 1.42 W/kg; SAR(10 g) = 0.679 W/kg**

Maximum value of SAR (measured) = 2.39 W/kg



0 dB = 2.39 W/kg = 3.78 dBW/kg

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Date: 2019/1/18

**LTE Band 17 (10MHz)\_Body\_Top side\_CH 23780\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 709 \text{ MHz}$ ;  $\sigma = 0.932 \text{ S/m}$ ;  $\epsilon_r = 57.874$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.32 W/kg

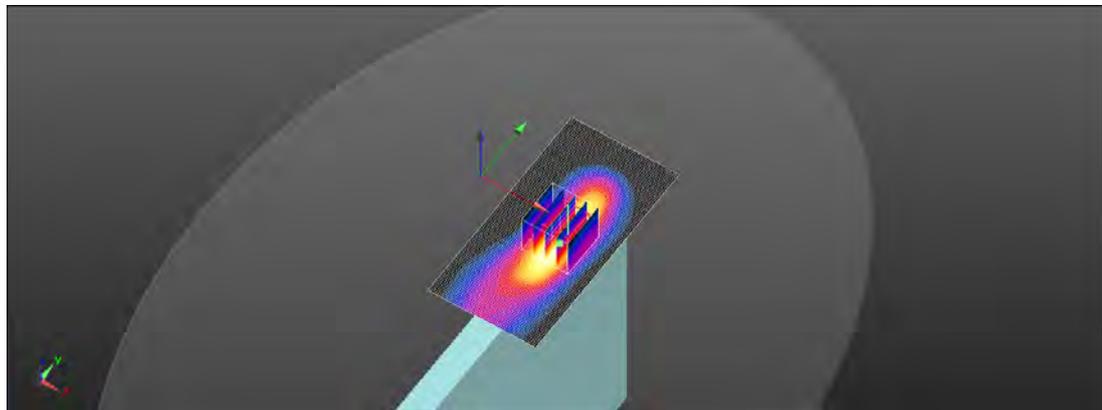
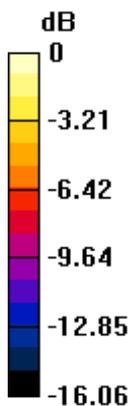
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.61 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 3.32 W/kg

**SAR(1 g) = 1.39 W/kg; SAR(10 g) = 0.680 W/kg**

Maximum value of SAR (measured) = 2.33 W/kg



0 dB = 2.33 W/kg = 3.67 dBW/kg

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Date: 2019/1/19

**LTE Band 26 (15MHz)\_Body\_Top side\_CH 26865\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 831.5 \text{ MHz}$ ;  $\sigma = 0.993 \text{ S/m}$ ;  $\epsilon_r = 57.273$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.03 W/kg

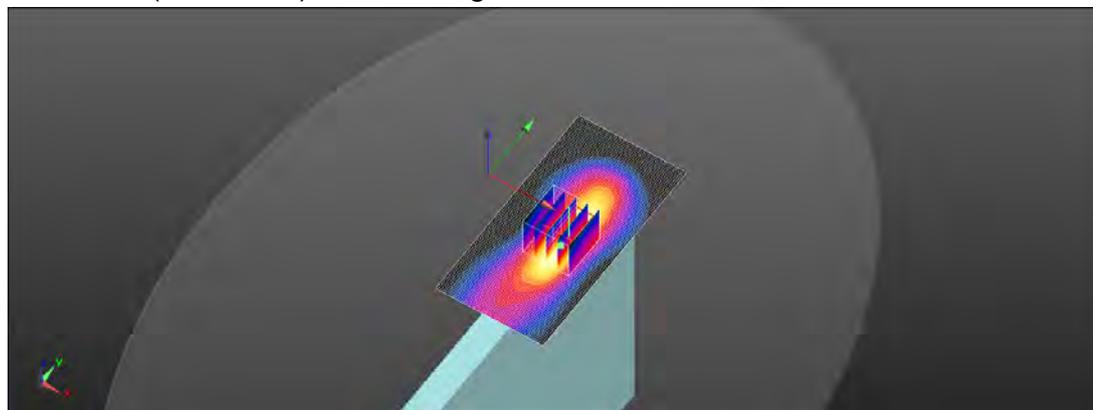
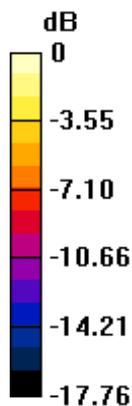
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.81 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.89 W/kg

**SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.561 W/kg**

Maximum value of SAR (measured) = 2.03 W/kg



0 dB = 2.03 W/kg = 3.07 dBW/kg

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Date: 2019/1/23

**LTE Band 30 (10MHz)\_Body\_Top side\_CH 27710\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.855$  S/m;  $\epsilon_r = 53.557$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 22.0°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(7.68, 7.68, 7.68); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.878 W/kg

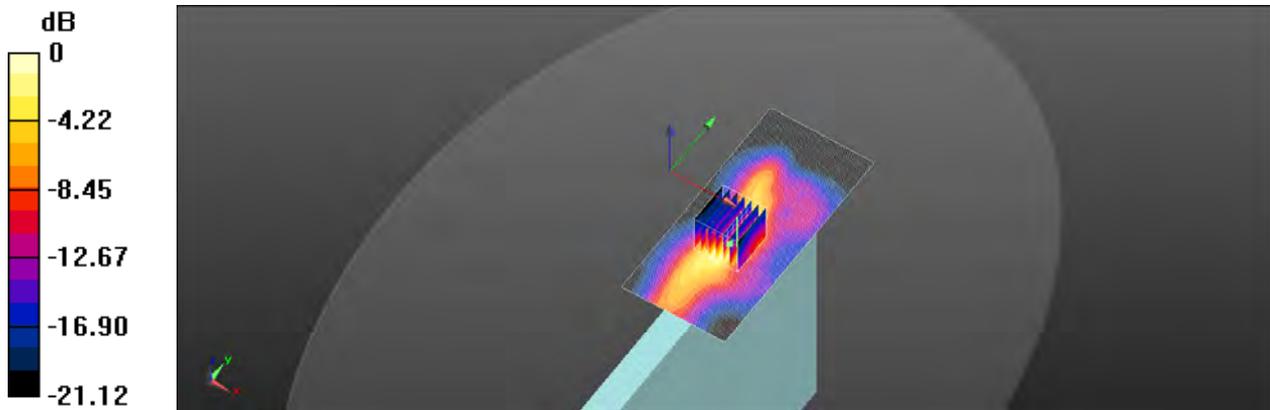
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.282 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 0.707 W/kg; SAR(10 g) = 0.298 W/kg**

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

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Date: 2019/1/24

**LTE Band 38 (20MHz)\_Body\_Top side\_CH 37850\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2580 MHz; Duty Cycle: 1:1.59956

Medium parameters used:  $f = 2580$  MHz;  $\sigma = 2.042$  S/m;  $\epsilon_r = 52.639$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.810 W/kg

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

Reference Value = 3.679 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.06 W/kg

**SAR(1 g) = 0.706 W/kg; SAR(10 g) = 0.276 W/kg**

Maximum value of SAR (measured) = 1.41 W/kg

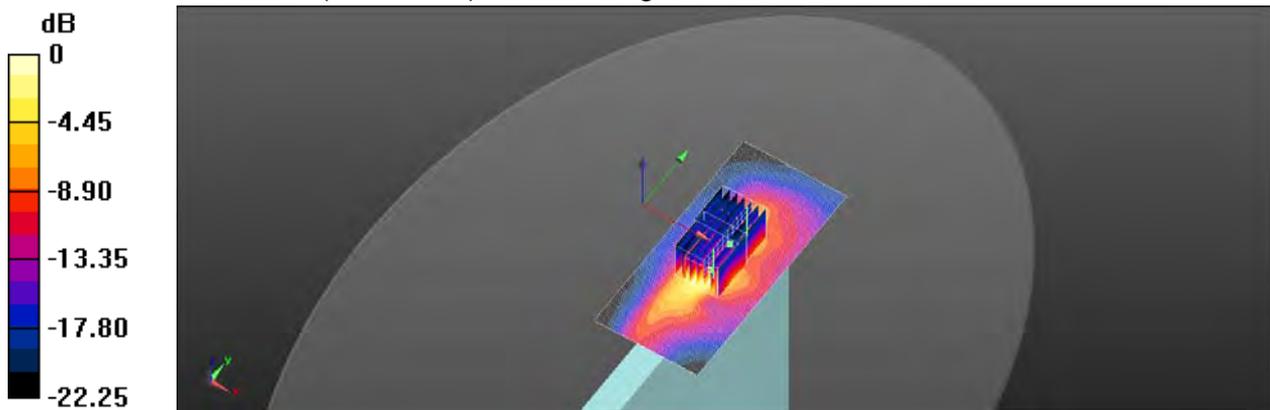
**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.679 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.199 W/kg**

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2019/1/24

**LTE Band 41 (20MHz)\_Body\_Top side\_CH 41490\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2680 MHz; Duty Cycle: 1:1.59956

Medium parameters used:  $f = 2680$  MHz;  $\sigma = 2.175$  S/m;  $\epsilon_r = 52.303$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

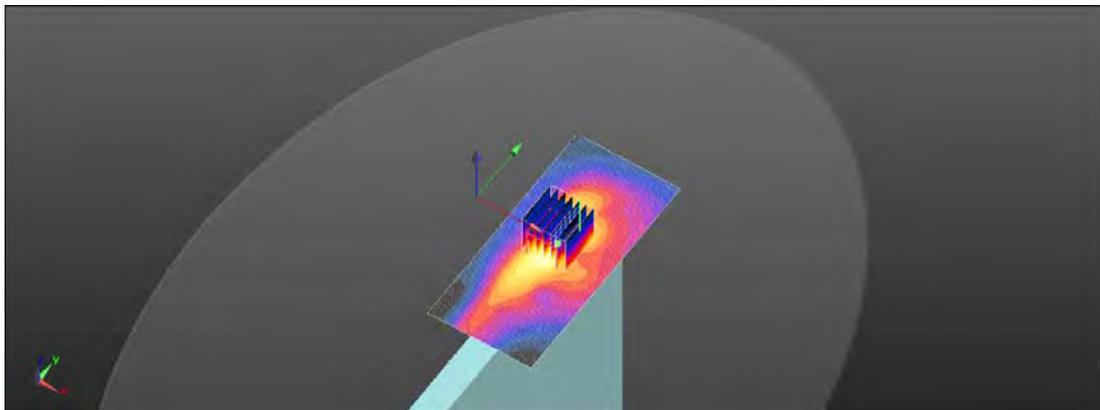
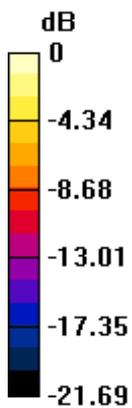
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.391 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.81 W/kg

**SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.270 W/kg**

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



0 dB = 1.14 W/kg = 0.57 dBW/kg

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Date: 2019/1/21

**LTE Band 66 (20MHz)\_Body\_Top side\_CH 132572\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.443$  S/m;  $\epsilon_r = 51.336$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.00 W/kg

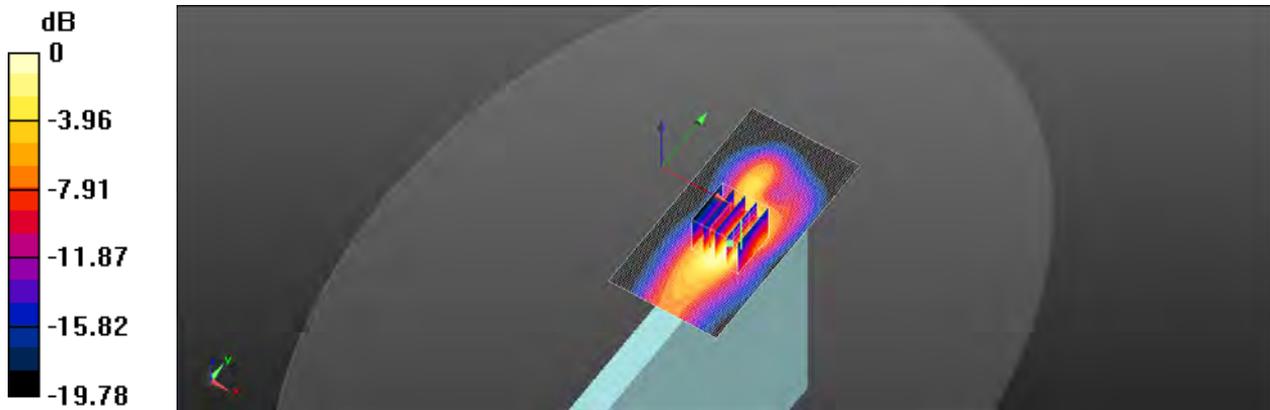
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.38 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.85 W/kg

**SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.623 W/kg**

Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.76 W/kg = 2.46 dBW/kg

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Date: 2019/1/22

### WCDMA Band II\_Body\_Top side\_CH 9400\_0mm

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.552$  S/m;  $\epsilon_r = 50.926$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8, 8, 8); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.28 W/kg

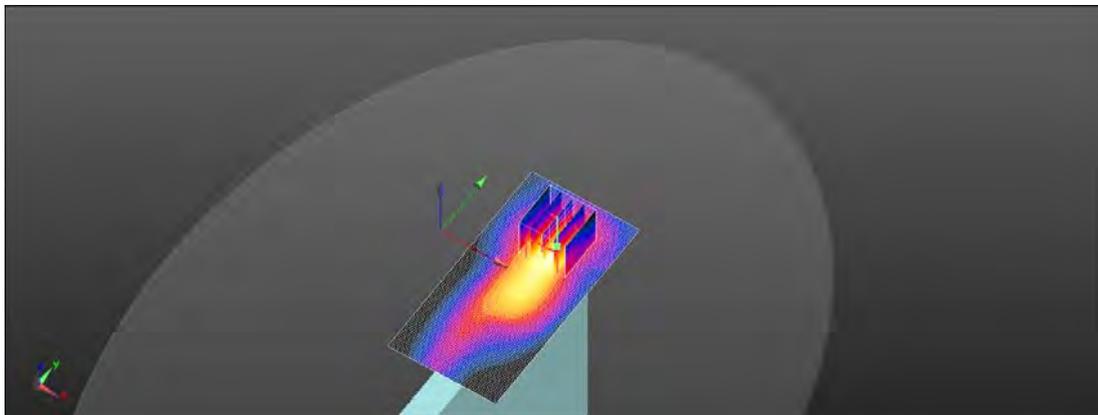
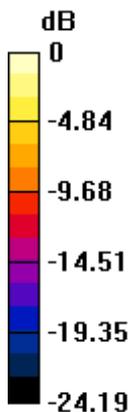
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.954 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 3.20 W/kg

**SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.587 W/kg**

Maximum value of SAR (measured) = 2.49 W/kg



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

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Date: 2019/1/21

**WCDMA Band IV\_Body\_Top side\_CH 1412\_0mm**

Communication System: WCDMA; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.406$  S/m;  $\epsilon_r = 51.457$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.20 W/kg

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

Reference Value = 2.691 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.88 W/kg

**SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.591 W/kg**

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

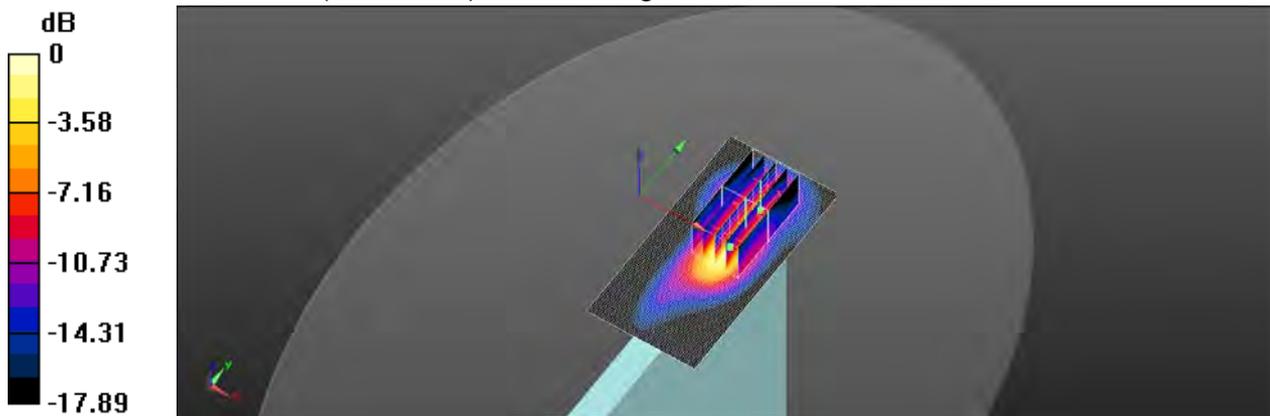
**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.691 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.41 W/kg

**SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.567 W/kg**

Maximum value of SAR (measured) = 1.89 W/kg



0 dB = 1.89 W/kg = 2.76 dBW/kg

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Date: 2019/1/19

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

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

Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.986$  S/m;  $\epsilon_r = 57.29$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

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

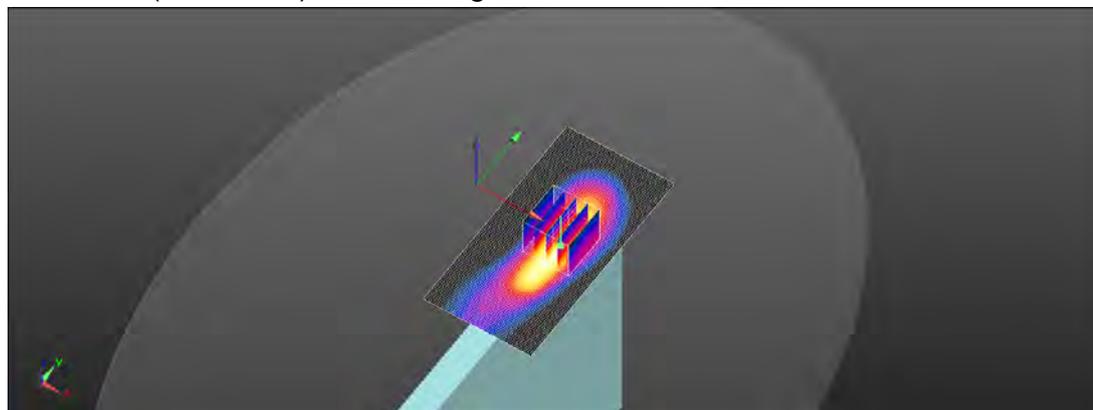
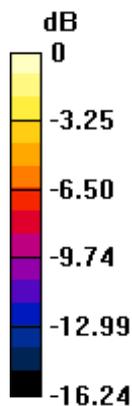
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.172 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.83 W/kg

**SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.643 W/kg**

Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 2.04 W/kg = 3.10 dBW/kg

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Date: 2019/1/22

**LTE Band 2 (20MHz)\_Body\_Top side\_CH 19100\_QPSK\_1-50\_0mm**

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

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.578$  S/m;  $\epsilon_r = 50.853$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.4°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(8, 8, 8); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.11 W/kg

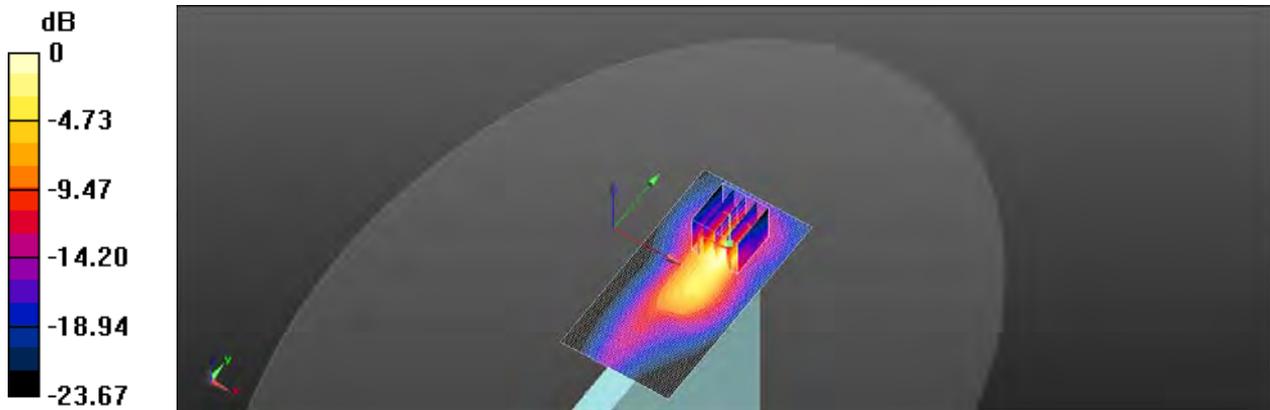
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.961 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.97 W/kg

**SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.538 W/kg**

Maximum value of SAR (measured) = 2.30 W/kg



0 dB = 2.30 W/kg = 3.62 dBW/kg

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Date: 2019/1/21

**LTE Band 4 (20MHz)\_Body\_Top side\_CH 20300\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.419 \text{ S/m}$ ;  $\epsilon_r = 51.404$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.06 W/kg

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

Reference Value = 2.557 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.84 W/kg

**SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.562 W/kg**

Maximum value of SAR (measured) = 2.24 W/kg

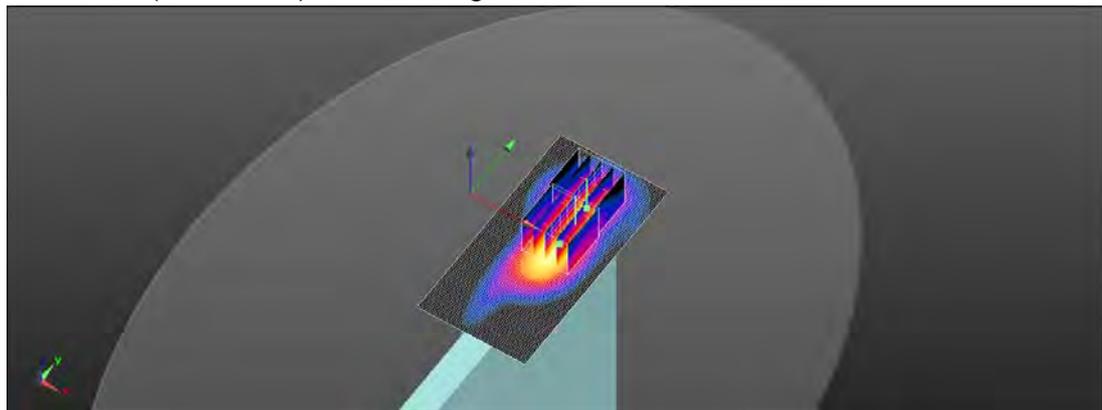
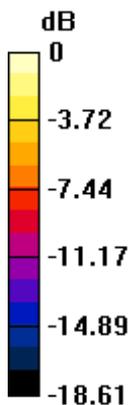
**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.557 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.35 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.536 W/kg**

Maximum value of SAR (measured) = 1.84 W/kg



0 dB = 1.84 W/kg = 2.65 dBW/kg

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Date: 2019/1/19

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

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

Medium parameters used:  $f = 829 \text{ MHz}$ ;  $\sigma = 0.988 \text{ S/m}$ ;  $\epsilon_r = 57.285$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

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

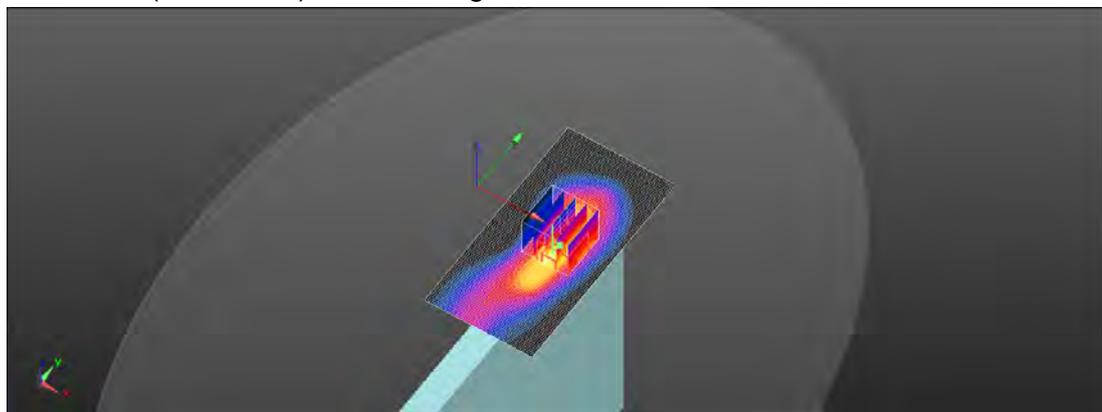
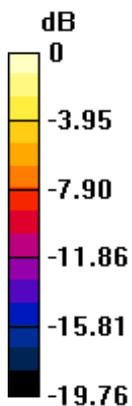
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.913 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.09 W/kg

**SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.579 W/kg**

Maximum value of SAR (measured) = 2.22 W/kg



0 dB = 2.22 W/kg = 3.46 dBW/kg

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Date: 2019/1/24

**LTE Band 7 (20MHz)\_Body\_Top side\_CH 20850\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 1.95$  S/m;  $\epsilon_r = 52.875$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.61 W/kg

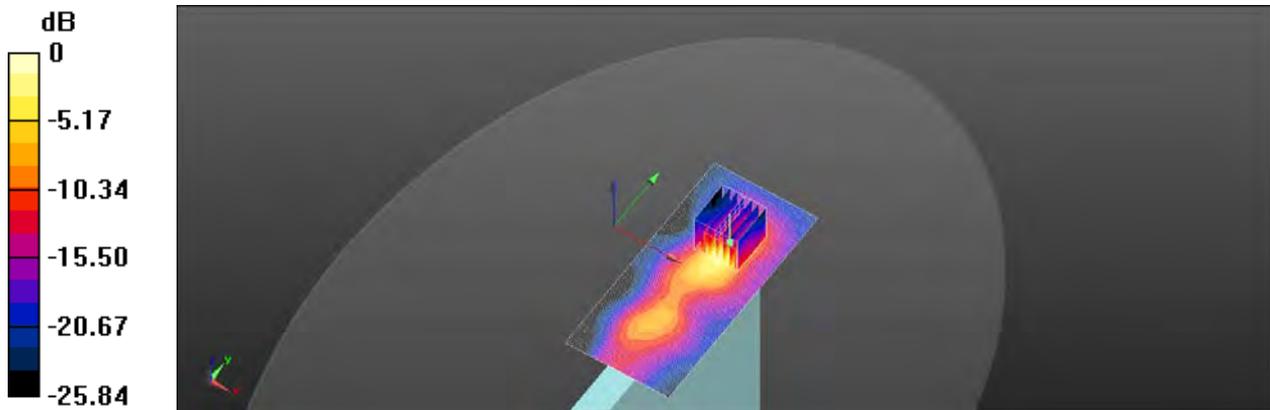
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.081 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 3.45 W/kg

**SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.464 W/kg**

Maximum value of SAR (measured) = 2.29 W/kg



0 dB = 2.29 W/kg = 3.60 dBW/kg

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Date: 2019/1/18

**LTE Band 12 (10MHz)\_Body\_Top side\_CH 23095\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 707.5 \text{ MHz}$ ;  $\sigma = 0.928 \text{ S/m}$ ;  $\epsilon_r = 57.943$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.15 W/kg

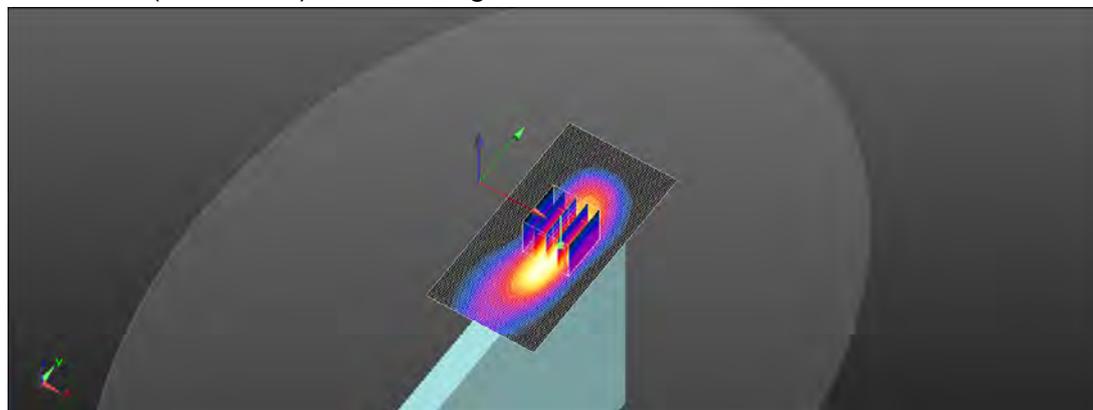
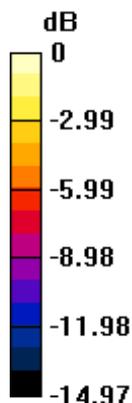
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.418 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.90 W/kg

**SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.671 W/kg**

Maximum value of SAR (measured) = 2.14 W/kg



0 dB = 2.14 W/kg = 3.30 dBW/kg

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Date: 2019/1/18

**LTE Band 13 (10MHz)\_Body\_Top side\_CH 23230\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 1.007 \text{ S/m}$ ;  $\epsilon_r = 57.284$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.05 W/kg

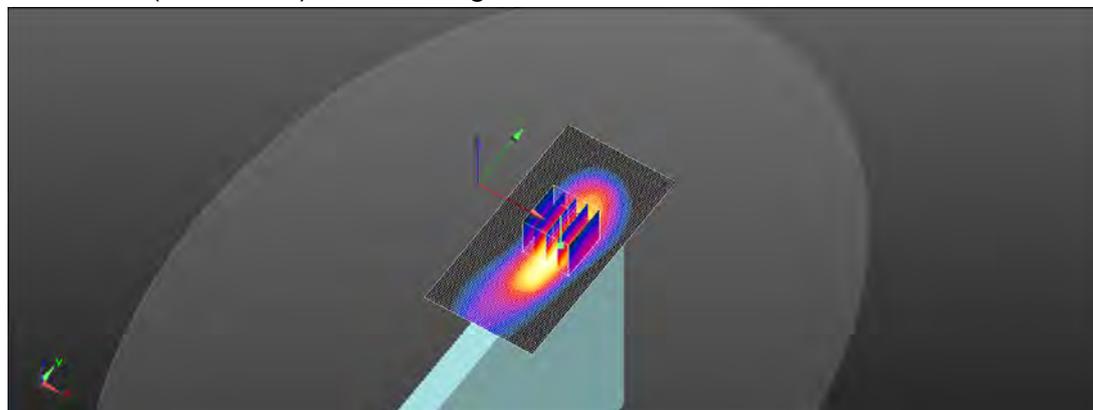
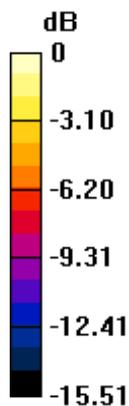
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.725 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.76 W/kg

**SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.658 W/kg**

Maximum value of SAR (measured) = 2.06 W/kg



0 dB = 2.06 W/kg = 3.14 dBW/kg

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Date: 2019/1/18

**LTE Band 17 (10MHz)\_Body\_Top side\_CH 23780\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 709 \text{ MHz}$ ;  $\sigma = 0.932 \text{ S/m}$ ;  $\epsilon_r = 57.874$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.15 W/kg

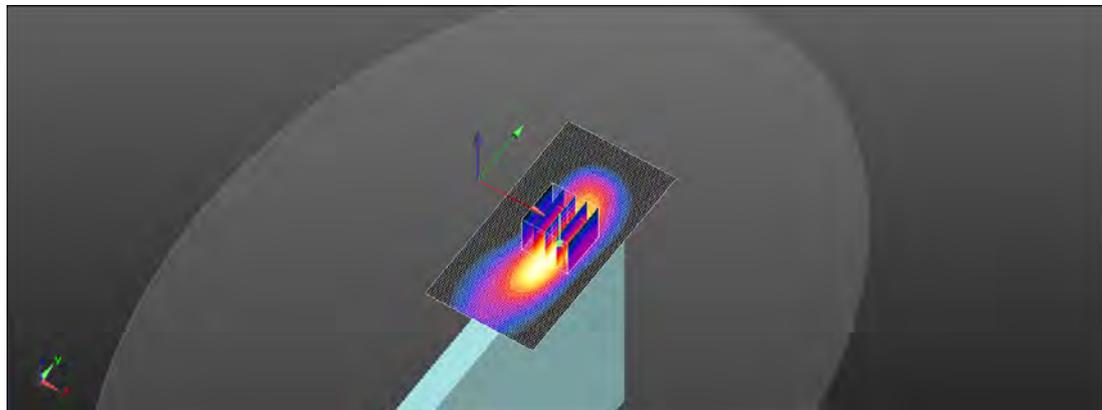
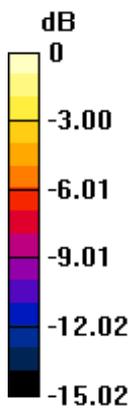
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.242 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.90 W/kg

**SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.673 W/kg**

Maximum value of SAR (measured) = 2.13 W/kg



0 dB = 2.13 W/kg = 3.28 dBW/kg

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Date: 2019/1/19

**LTE Band 26 (15MHz)\_Body\_Top side\_CH 26865\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 831.5 \text{ MHz}$ ;  $\sigma = 0.993 \text{ S/m}$ ;  $\epsilon_r = 57.273$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.07 W/kg

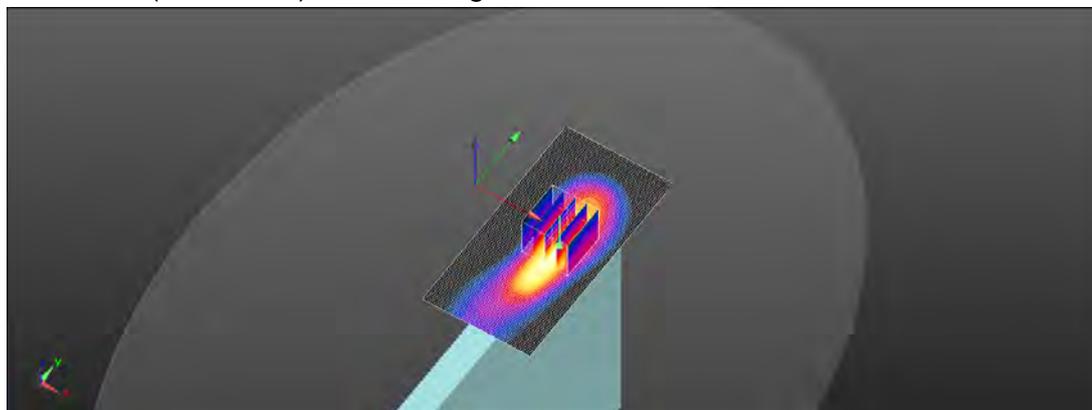
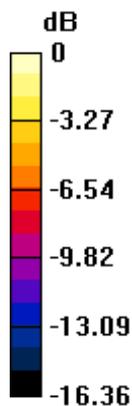
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.151 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.78 W/kg

**SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.643 W/kg**

Maximum value of SAR (measured) = 2.07 W/kg



0 dB = 2.07 W/kg = 3.16 dBW/kg

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Date: 2019/1/23

**LTE Band 30 (10MHz)\_Body\_Top side\_CH 27710\_QPSK\_1-49\_0mm**

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

Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.855$  S/m;  $\epsilon_r = 53.557$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 22.0°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(7.68, 7.68, 7.68); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.80 W/kg

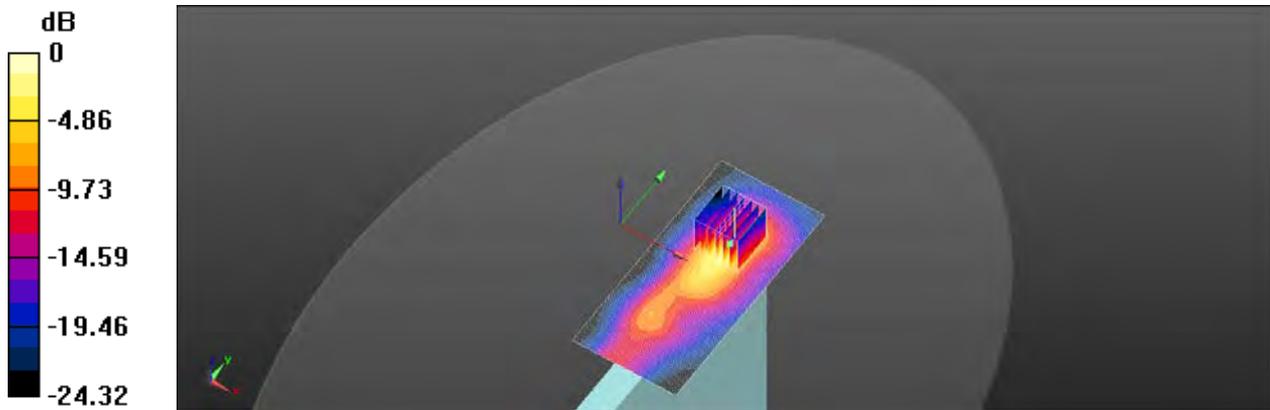
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.958 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.11 W/kg

**SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.500 W/kg**

Maximum value of SAR (measured) = 2.02 W/kg



0 dB = 2.02 W/kg = 3.05 dBW/kg

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Date: 2019/1/24

**LTE Band 38 (20MHz)\_Body\_Top side\_CH 37850\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2580 MHz; Duty Cycle: 1:1.59956  
Medium parameters used:  $f = 2580$  MHz;  $\sigma = 2.042$  S/m;  $\epsilon_r = 52.639$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.36 W/kg

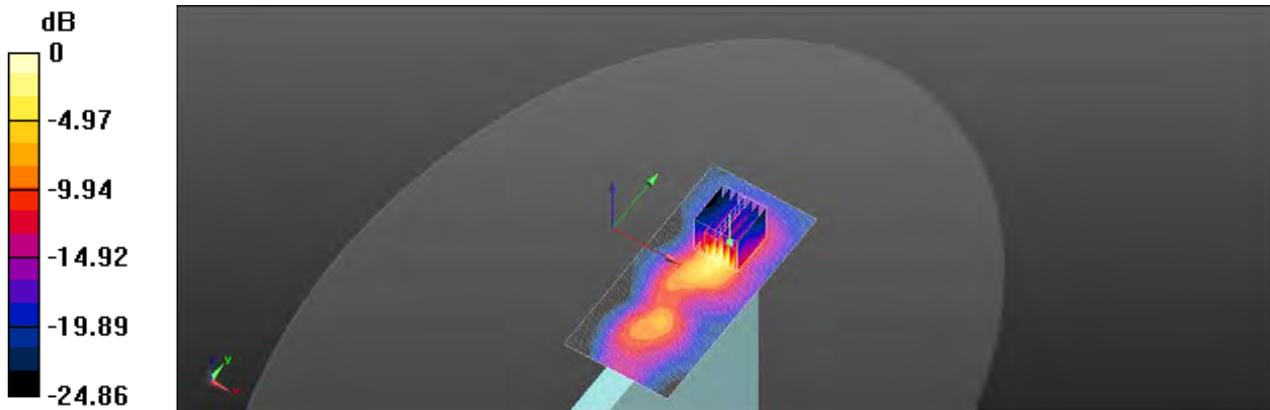
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.985 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.96 W/kg

**SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.385 W/kg**

Maximum value of SAR (measured) = 2.00 W/kg



0 dB = 2.00 W/kg = 3.01 dBW/kg

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Date: 2019/1/24

**LTE Band 41 (20MHz)\_Body\_Top side\_CH 41490\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2680 MHz; Duty Cycle: 1:1.59956

Medium parameters used:  $f = 2680$  MHz;  $\sigma = 2.175$  S/m;  $\epsilon_r = 52.303$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

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

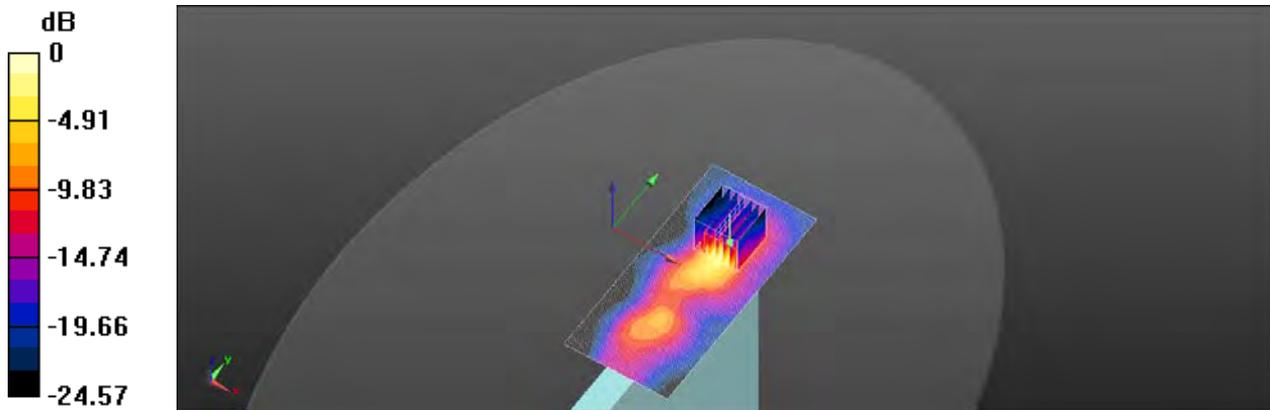
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.481 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.87 W/kg

**SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.372 W/kg**

Maximum value of SAR (measured) = 1.92 W/kg



0 dB = 1.92 W/kg = 2.83 dBW/kg

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Date: 2019/1/21

**LTE Band 66 (20MHz)\_Body\_Top side\_CH 132572\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.443$  S/m;  $\epsilon_r = 51.336$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (51x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

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

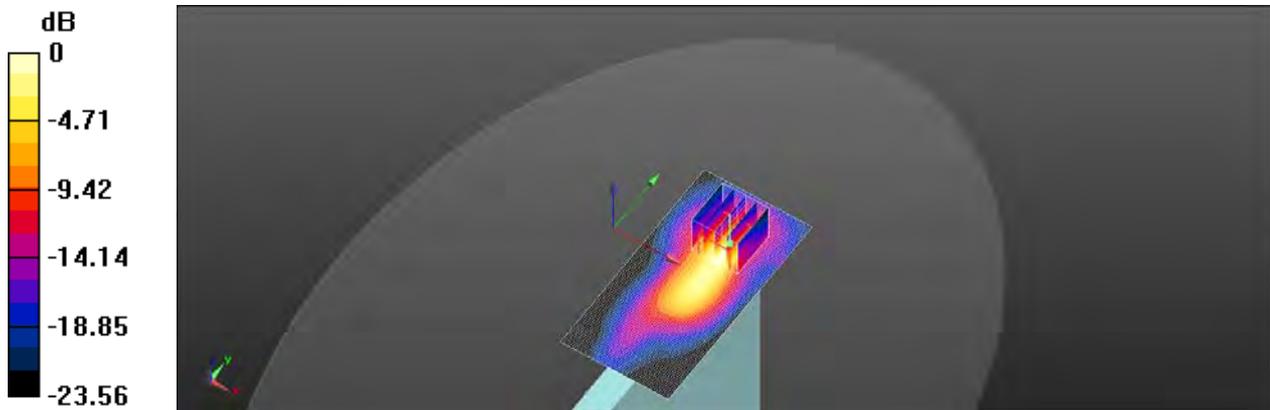
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.733 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.91 W/kg

**SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.570 W/kg**

Maximum value of SAR (measured) = 2.28 W/kg



0 dB = 2.28 W/kg = 3.58 dBW/kg

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Date: 2019/1/4

### WLAN 802.11b\_Body\_Top side\_CH 1\_Main\_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.928$  S/m;  $\epsilon_r = 54.084$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.3, 7.3, 7.3); Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.970 W/kg

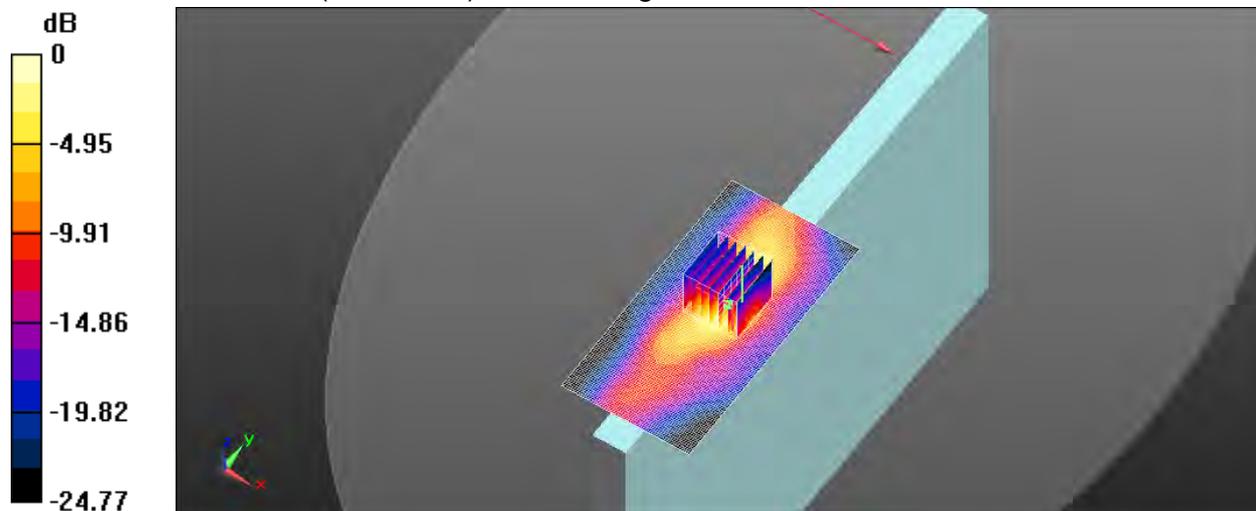
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.703 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.03 W/kg

**SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.291 W/kg**

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

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Date: 2019/1/4

### WLAN 802.11ac(80M) 5.2G\_Body\_Top side\_CH 42\_Main\_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5210$  MHz;  $\sigma = 5.177$  S/m;  $\epsilon_r = 49.296$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.316 W/kg

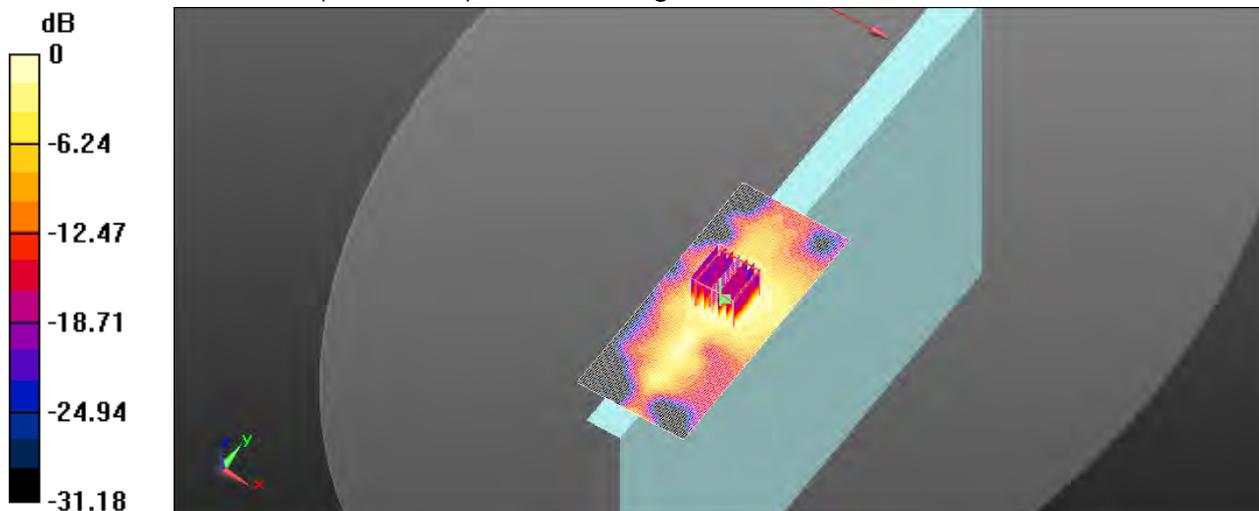
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.034 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.669 W/kg

**SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.060 W/kg**

Maximum value of SAR (measured) = 0.334 W/kg



0 dB = 0.334 W/kg = -4.76 dBW/kg

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Date: 2019/1/7

### WLAN 802.11ac(80M) 5.3G\_Body\_Top side\_CH 58\_Main\_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 5.324$  S/m;  $\epsilon_r = 49.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 22.2°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.383 W/kg

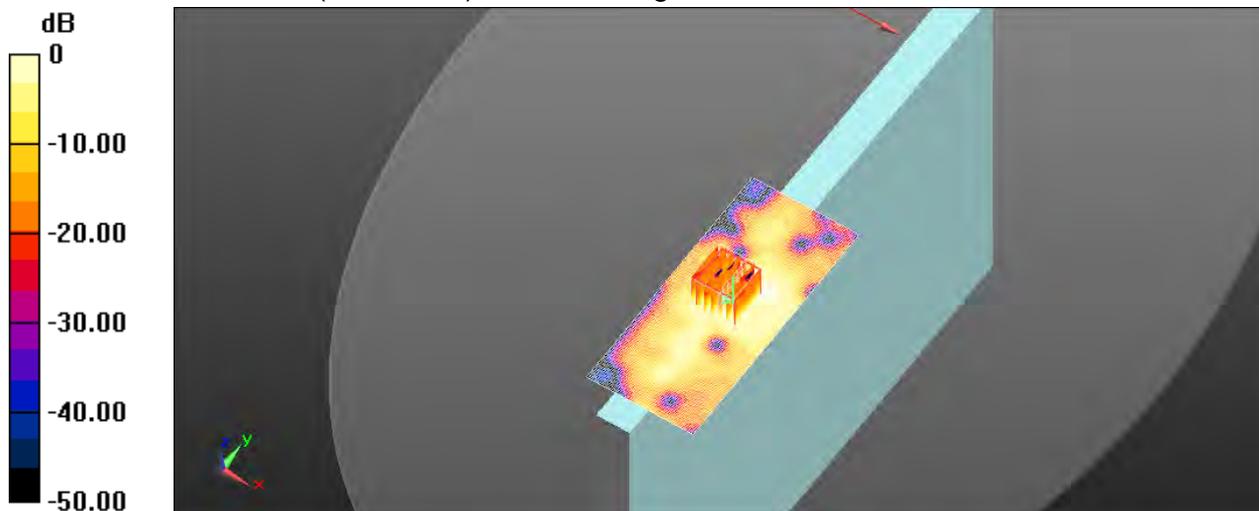
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.457 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.778 W/kg

**SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.067 W/kg**

Maximum value of SAR (measured) = 0.384 W/kg



0 dB = 0.384 W/kg = -4.16 dBW/kg

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Date: 2019/1/8

**WLAN 802.11ac(80M) 5.6G\_Body\_Top side\_CH 138\_Main\_0mm**

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.979$  S/m;  $\epsilon_r = 47.754$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.85 W/kg

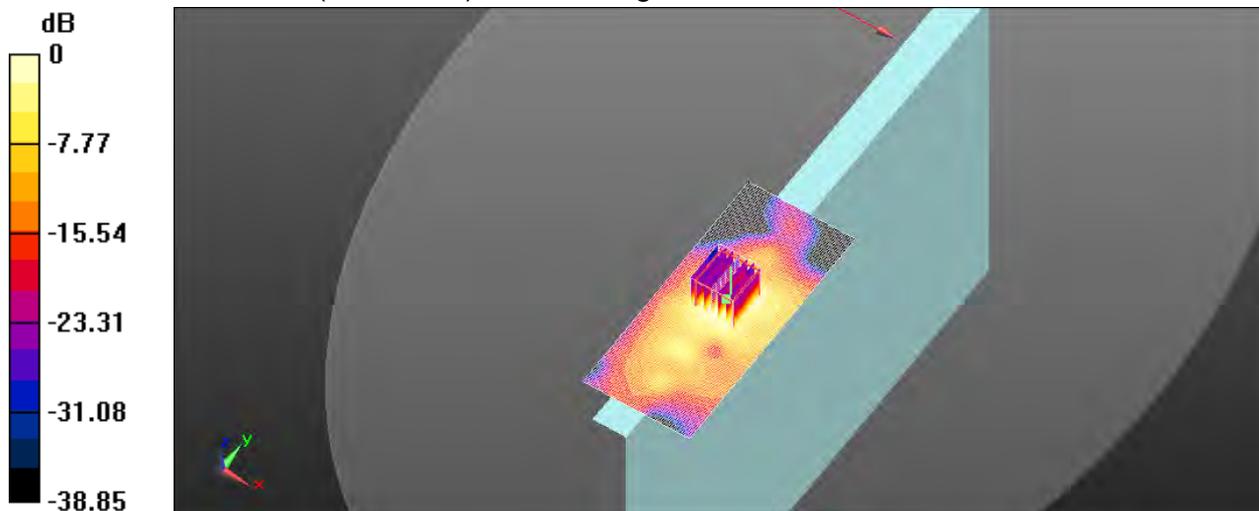
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.033 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.72 W/kg

**SAR(1 g) = 0.851 W/kg; SAR(10 g) = 0.283 W/kg**

Maximum value of SAR (measured) = 1.69 W/kg



0 dB = 1.69 W/kg = 2.28 dBW/kg

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Date: 2019/1/9

### WLAN 802.11ac(80M) 5.8G\_Body\_Top side\_CH 155\_Main\_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 6.1$  S/m;  $\epsilon_r = 47.459$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.8°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4, 4, 4); Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.88 W/kg

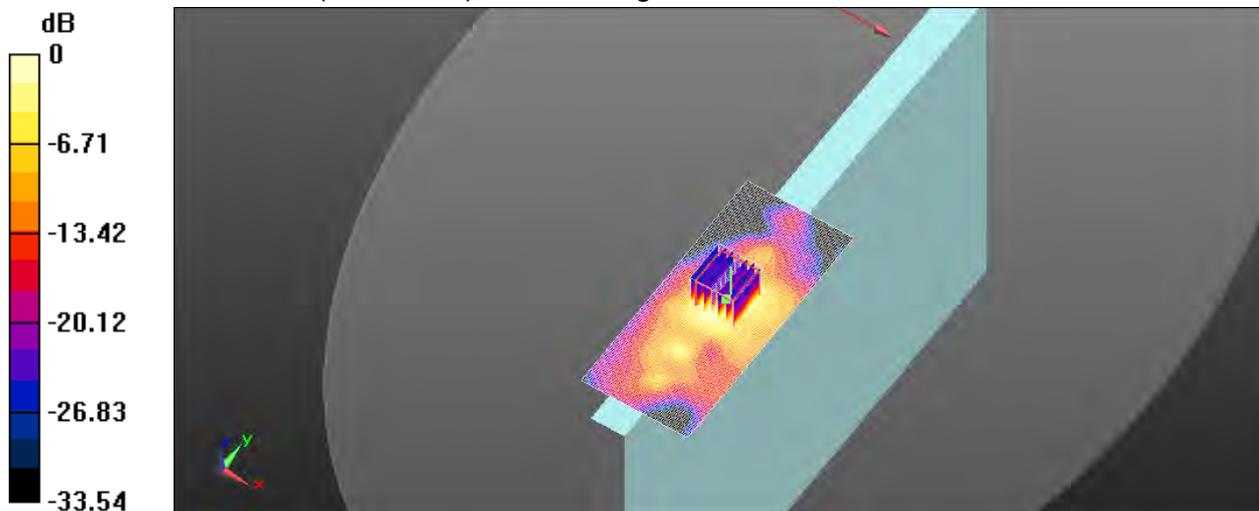
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.899 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.80 W/kg

**SAR(1 g) = 0.848 W/kg; SAR(10 g) = 0.281 W/kg**

Maximum value of SAR (measured) = 1.78 W/kg



0 dB = 1.78 W/kg = 2.50 dBW/kg

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Date: 2019/1/4

### WLAN 802.11b\_Body\_Top side\_CH 1\_Aux\_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.928$  S/m;  $\epsilon_r = 54.084$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.7°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.3, 7.3, 7.3); Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

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

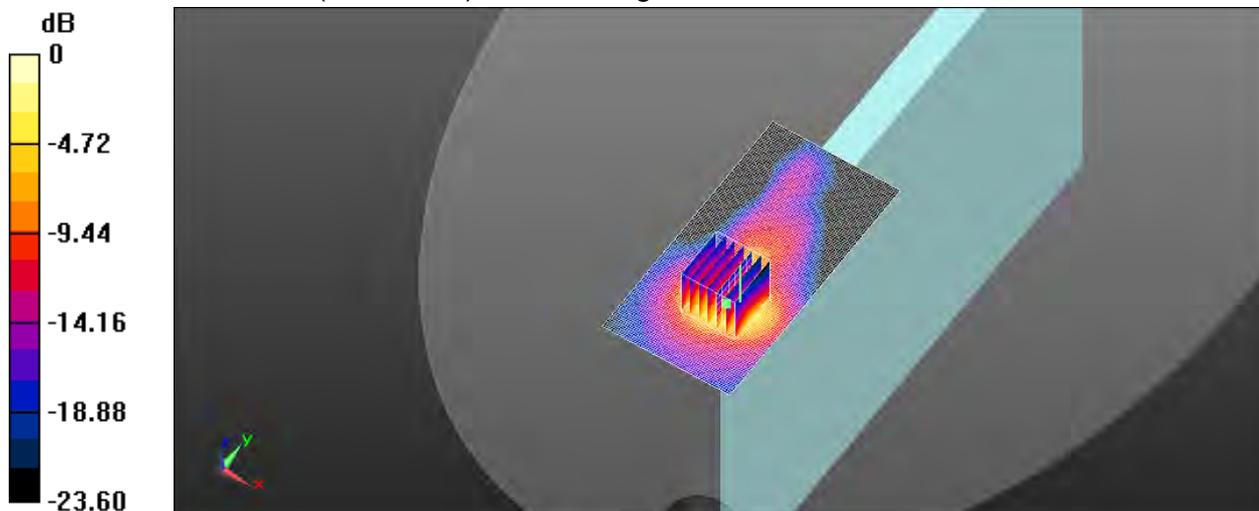
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.156 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.74 W/kg

**SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.362 W/kg**

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



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

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Date: 2019/1/4

### Bluetooth(GFSK)\_Body\_Top side\_CH 78\_Aux\_0mm

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2480$  MHz;  $\sigma = 2.012$  S/m;  $\epsilon_r = 53.877$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.7°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(7.3, 7.3, 7.3);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.165 W/kg

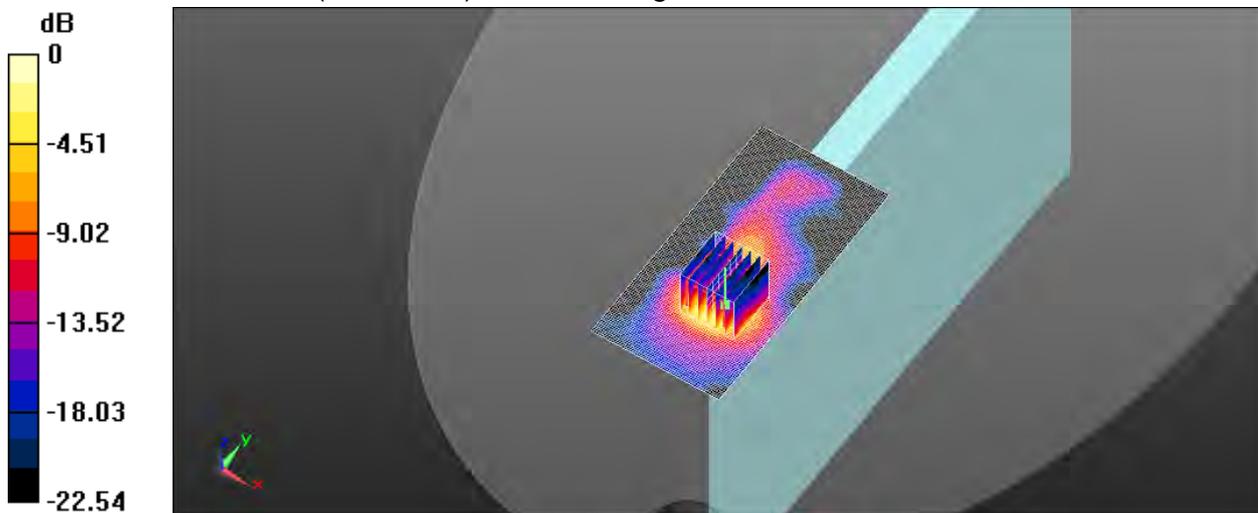
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.447 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.281 W/kg

**SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.049 W/kg**

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



0 dB = 0.197 W/kg = -7.06 dBW/kg

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Date: 2019/1/4

**WLAN 802.11ac(80M) 5.2G\_Body\_Top side\_CH 42\_Aux\_0mm**

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5210 \text{ MHz}$ ;  $\sigma = 5.177 \text{ S/m}$ ;  $\epsilon_r = 49.296$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.27 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.652 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.49 W/kg

**SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.248 W/kg**

Maximum value of SAR (measured) = 1.36 W/kg

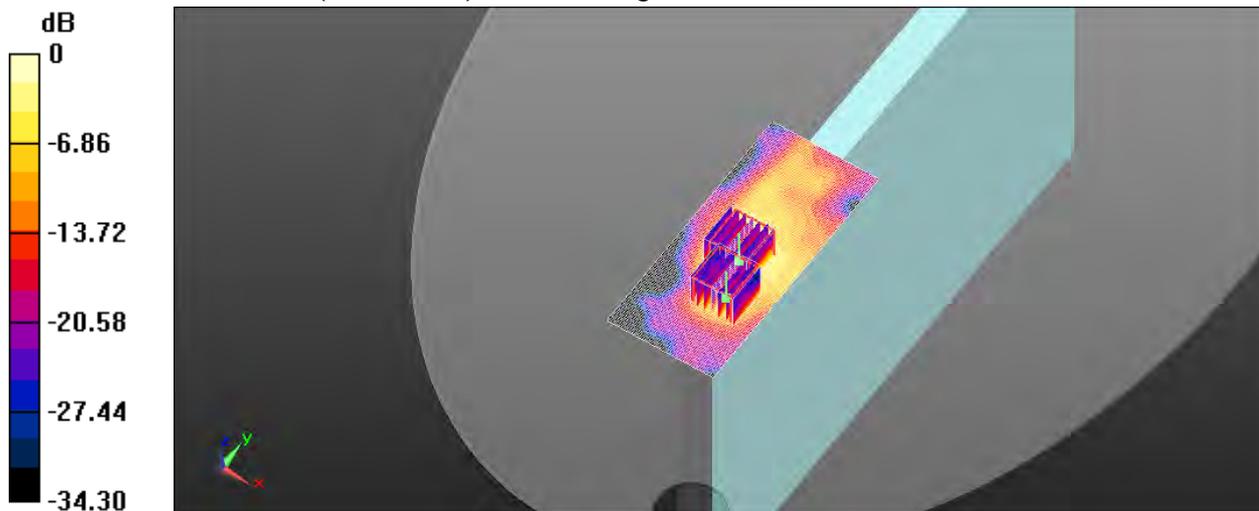
**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.652 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.01 W/kg

**SAR(1 g) = 0.626 W/kg; SAR(10 g) = 0.158 W/kg**

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



0 dB = 1.39 W/kg = 1.43 dBW/kg

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Date: 2019/1/7

**WLAN 802.11ac(80M) 5.3G\_Body\_Top side\_CH 58\_Aux\_0mm**

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5290$  MHz;  $\sigma = 5.324$  S/m;  $\epsilon_r = 49.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.9°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.689 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 2.22 W/kg

**SAR(1 g) = 0.623 W/kg; SAR(10 g) = 0.214 W/kg**

Maximum value of SAR (measured) = 1.24 W/kg

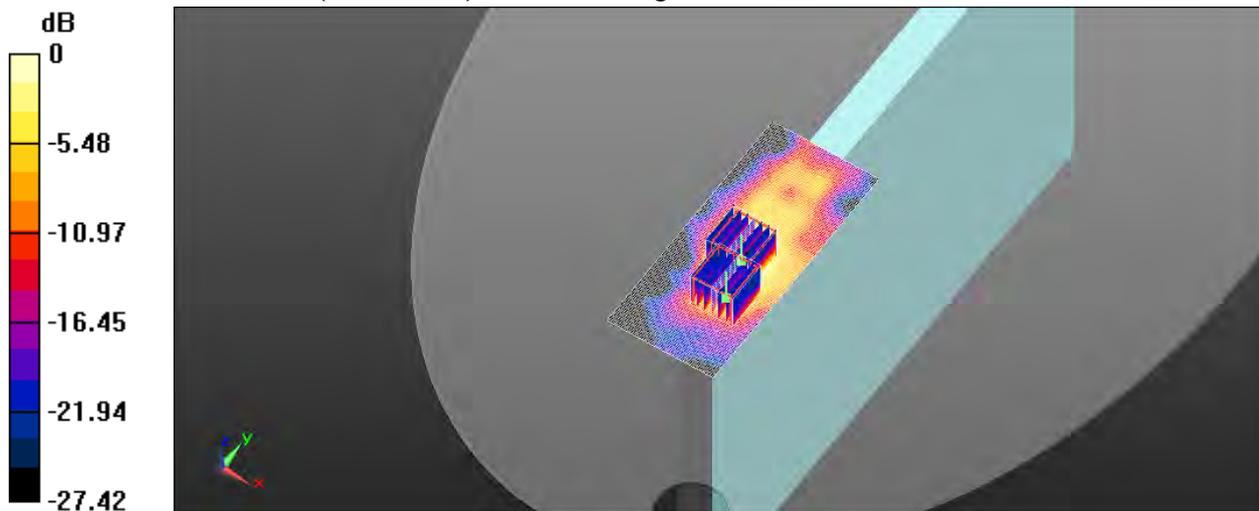
**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.6890 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.109 W/kg**

Maximum value of SAR (measured) = 0.907 W/kg



0 dB = 0.907 W/kg = -0.42 dBW/kg

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Date: 2019/1/8

**WLAN 802.11ac(80M) 5.6G\_Body\_Top side\_CH 138\_Aux\_0mm**

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.979$  S/m;  $\epsilon_r = 47.754$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.974 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.942 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.40 W/kg

**SAR(1 g) = 0.476 W/kg; SAR(10 g) = 0.133 W/kg**

Maximum value of SAR (measured) = 1.06 W/kg

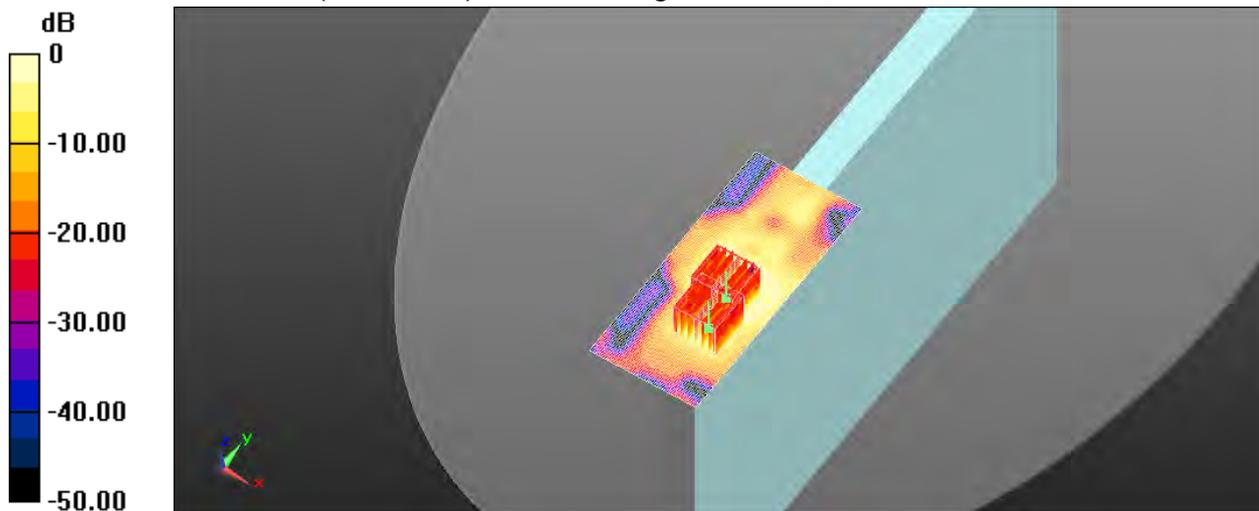
**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.942 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.178 W/kg**

Maximum value of SAR (measured) = 0.972 W/kg



0 dB = 0.972 W/kg = -0.12 dBW/kg

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Date: 2019/1/9

**WLAN 802.11ac(80M) 5.8G\_Body\_Top side\_CH 155\_Aux\_0mm**

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 6.1 \text{ S/m}$ ;  $\epsilon_r = 47.459$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.09 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.551 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.49 W/kg

**SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.205 W/kg**

Maximum value of SAR (measured) = 1.22 W/kg

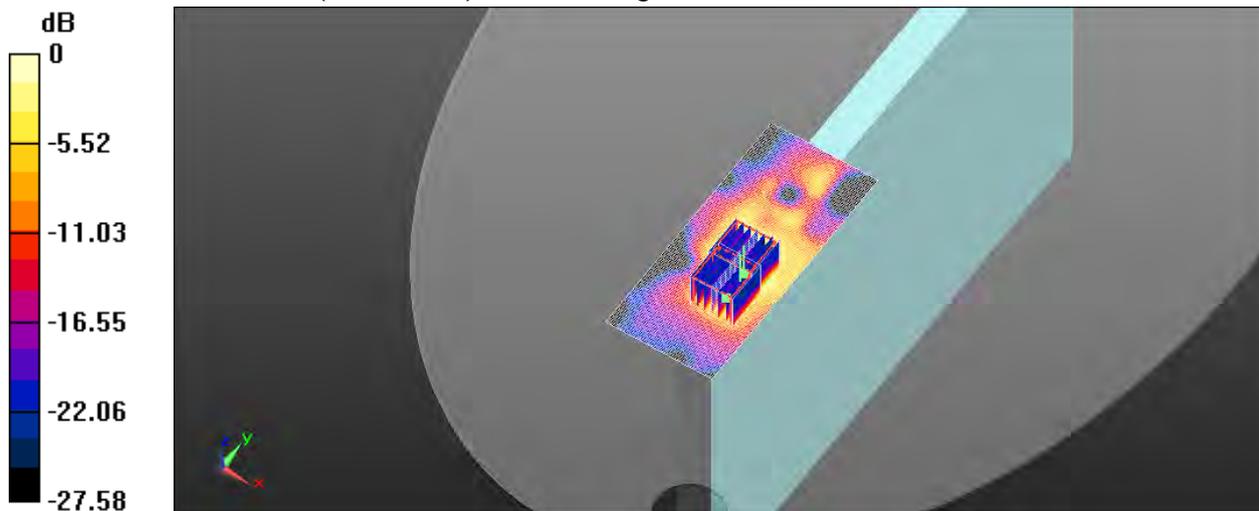
**Zoom Scan (7x7x12)/Cube 1:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.551 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.23 W/kg

**SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.139 W/kg**

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



0 dB = 1.01 W/kg = 0.04 dBW/kg

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Date: 2019/1/10

### WLAN 802.11b\_Body\_Top side\_CH 1\_Main\_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.928$  S/m;  $\epsilon_r = 54.084$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.3, 7.3, 7.3); Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

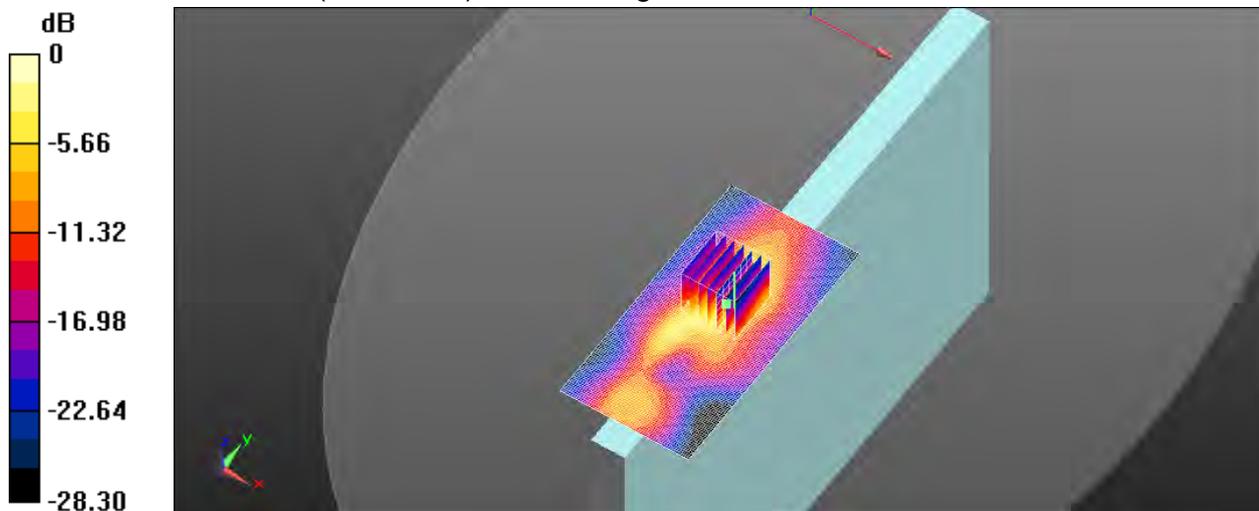
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.727 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.45 W/kg

**SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.288 W/kg**

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



0 dB = 1.46 W/kg = 1.64 dBW/kg

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Date: 2019/1/10

**WLAN 802.11ac(80M) 5.2G\_Body\_Top side\_CH 42\_Main\_0mm**

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5210 \text{ MHz}$ ;  $\sigma = 5.176 \text{ S/m}$ ;  $\epsilon_r = 49.292$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.71 W/kg

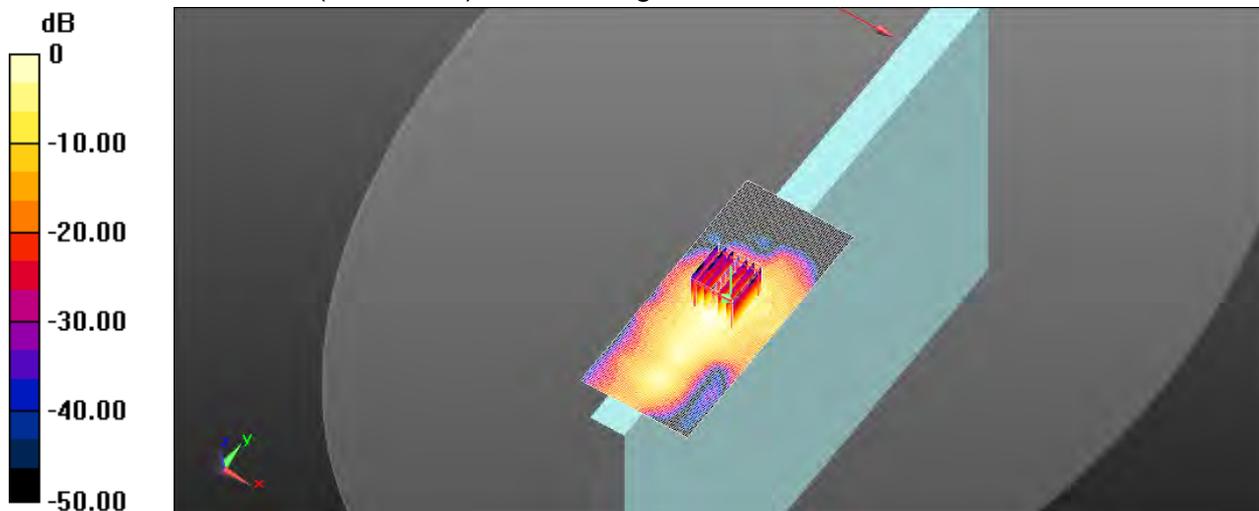
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.331 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.90 W/kg

**SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.386 W/kg**

Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.46 W/kg = 3.91 dBW/kg

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Date: 2019/1/11

### WLAN 802.11ac(80M) 5.3G\_Body\_Top side\_CH 58\_Main\_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 5.323$  S/m;  $\epsilon_r = 49.031$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 22.2°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.61 W/kg

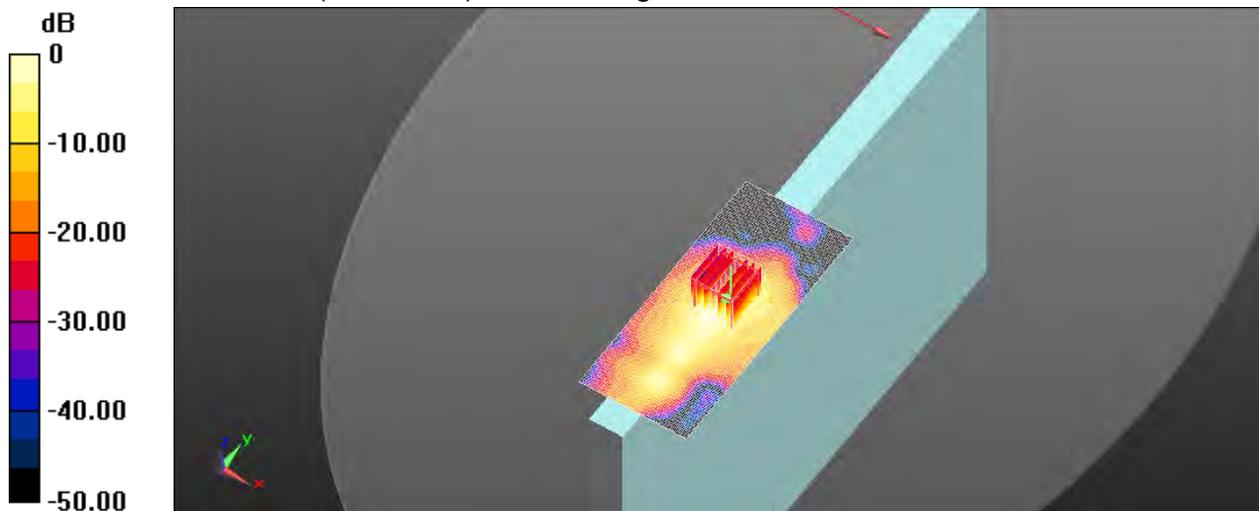
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.128 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 5.01 W/kg

**SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.369 W/kg**

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



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

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Date: 2019/1/12

### WLAN 802.11ac(80M) 5.6G\_Body\_Top side\_CH 138\_Main\_0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.985$  S/m;  $\epsilon_r = 47.735$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.44 W/kg

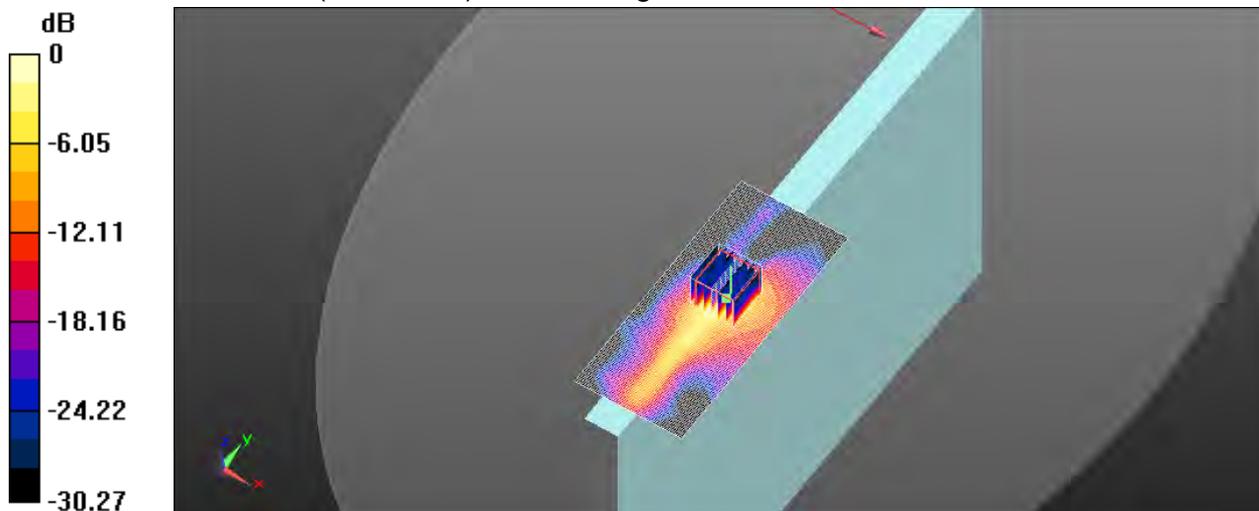
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.118 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 5.95 W/kg

**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.340 W/kg**

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



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

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Date: 2019/1/14

**WLAN 802.11ac(80M) 5.8G\_Body\_Top side\_CH 155\_Main\_0mm**

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 6.116 \text{ S/m}$ ;  $\epsilon_r = 47.47$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.28 W/kg

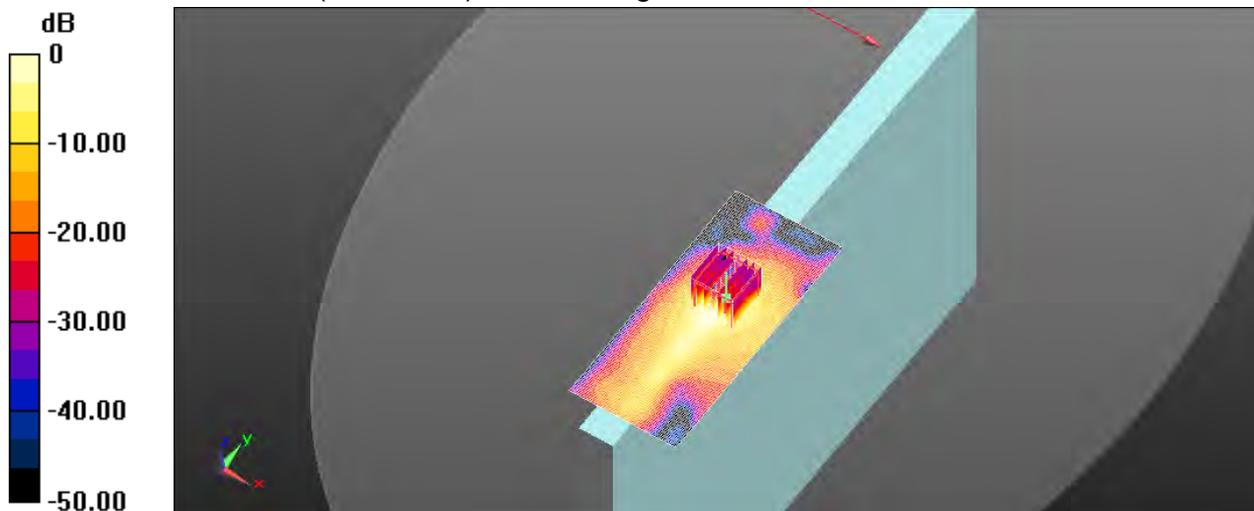
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.611 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 5.75 W/kg

**SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.292 W/kg**

Maximum value of SAR (measured) = 2.54 W/kg



0 dB = 2.54 W/kg = 4.05 dBW/kg

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Date: 2019/1/10

### WLAN 802.11b\_Body\_Top side\_CH 1\_Aux\_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.928$  S/m;  $\epsilon_r = 54.084$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.7°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.3, 7.3, 7.3); Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.967 W/kg

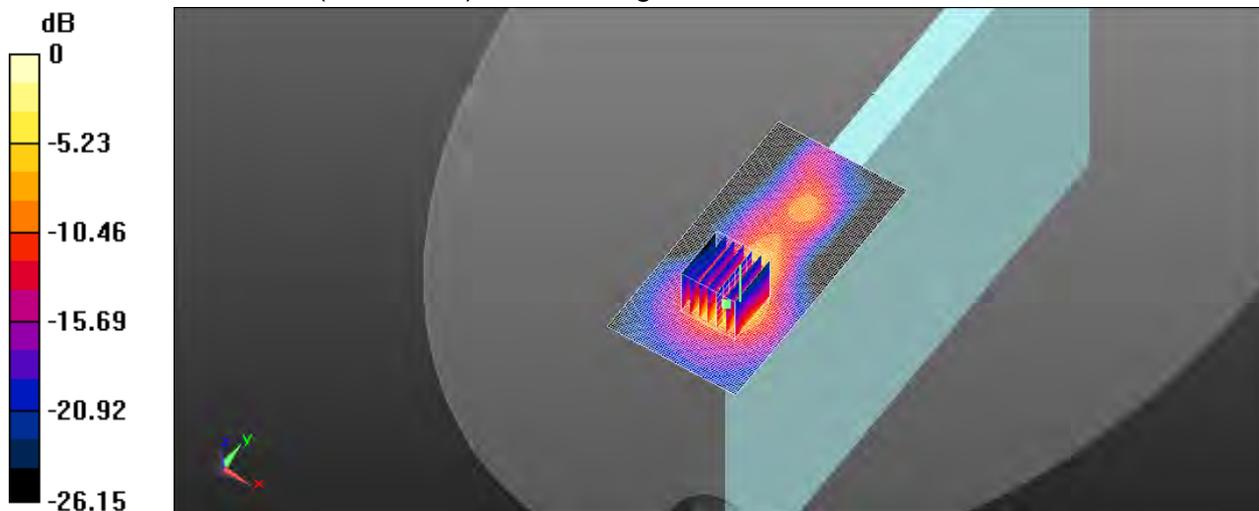
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.151 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.87 W/kg

**SAR(1 g) = 0.938 W/kg; SAR(10 g) = 0.338 W/kg**

Maximum value of SAR (measured) = 1.70 W/kg



0 dB = 1.70 W/kg = 2.30 dBW/kg

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Date: 2019/1/10

### Bluetooth(GFSK)\_Body\_Top side\_CH 78\_Aux\_0mm

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2480$  MHz;  $\sigma = 2.012$  S/m;  $\epsilon_r = 53.877$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.7°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.3, 7.3, 7.3); Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x121x1):** Interpolated grid: dx=12 mm, dy=12 mm

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

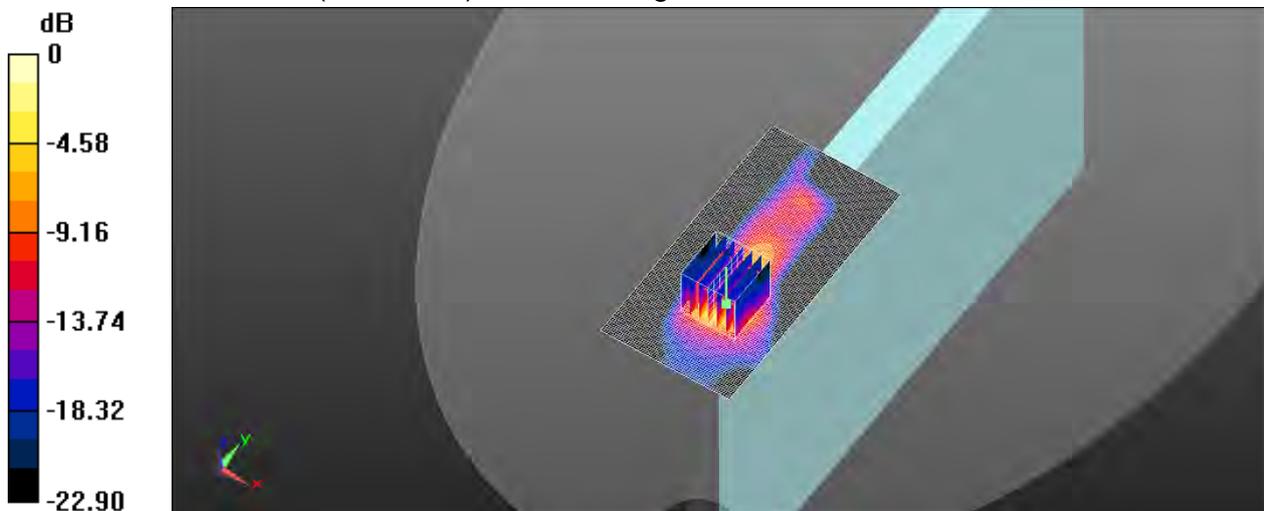
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.312 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.300 W/kg

**SAR(1 g) = 0.100 W/kg; SAR(10 g) = 0.034 W/kg**

Maximum value of SAR (measured) = 0.191 W/kg



0 dB = 0.191 W/kg = -7.19 dBW/kg

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Date: 2019/1/10

**WLAN 802.11ac(80M) 5.2G\_Body\_Top side\_CH 42\_Aux\_0mm**

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5210 \text{ MHz}$ ;  $\sigma = 5.176 \text{ S/m}$ ;  $\epsilon_r = 49.292$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.24 W/kg

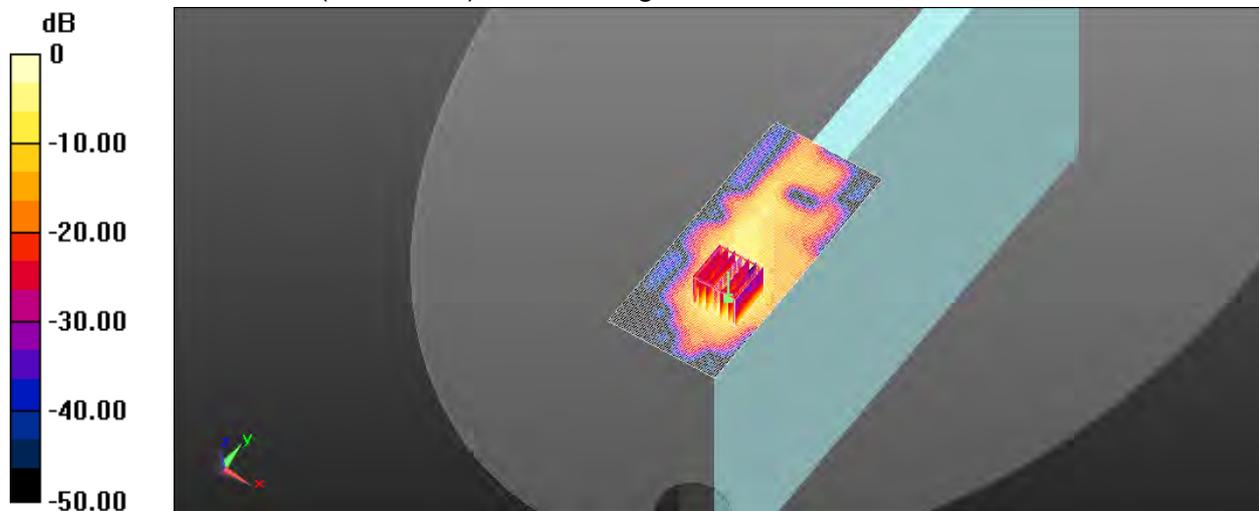
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.872 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.93 W/kg

**SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.274 W/kg**

Maximum value of SAR (measured) = 2.54 W/kg



0 dB = 2.54 W/kg = 4.05 dBW/kg

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Date: 2019/1/11

**WLAN 802.11ac(80M) 5.3G\_Body\_Top side\_CH 58\_Aux\_0mm**

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5290$  MHz;  $\sigma = 5.323$  S/m;  $\epsilon_r = 49.031$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.9°C; Liquid temperature: 22.2°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.80 W/kg

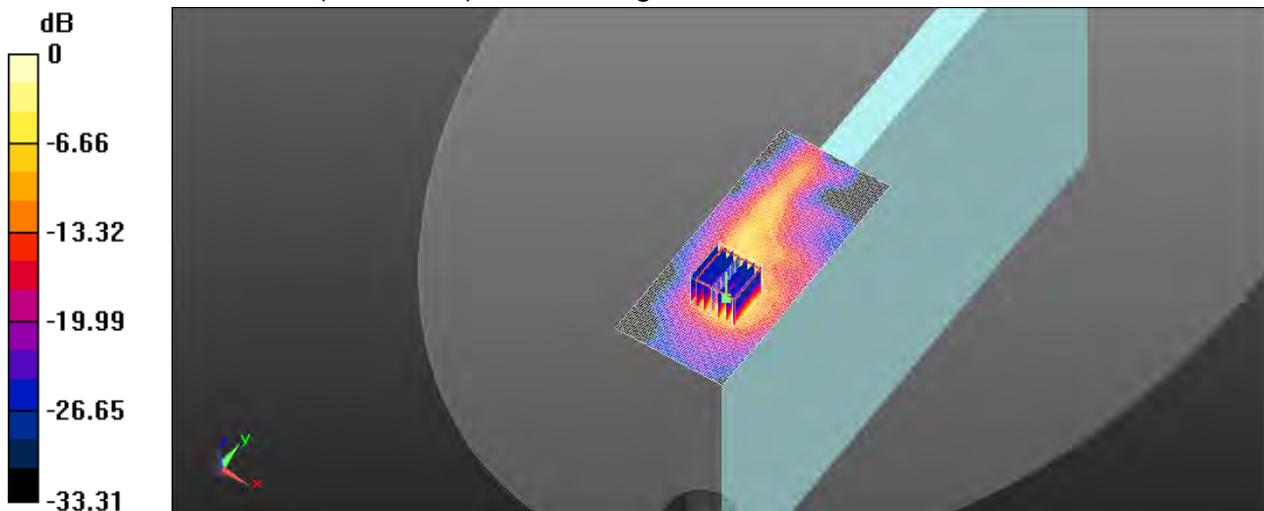
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.712 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 4.88 W/kg

**SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.236 W/kg**

Maximum value of SAR (measured) = 2.28 W/kg



0 dB = 2.28 W/kg = 3.58 dBW/kg

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Date: 2019/1/12

### WLAN 802.11ac(80M) 5.6G\_Body\_Top side\_CH 138\_Aux\_0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.985$  S/m;  $\epsilon_r = 47.735$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

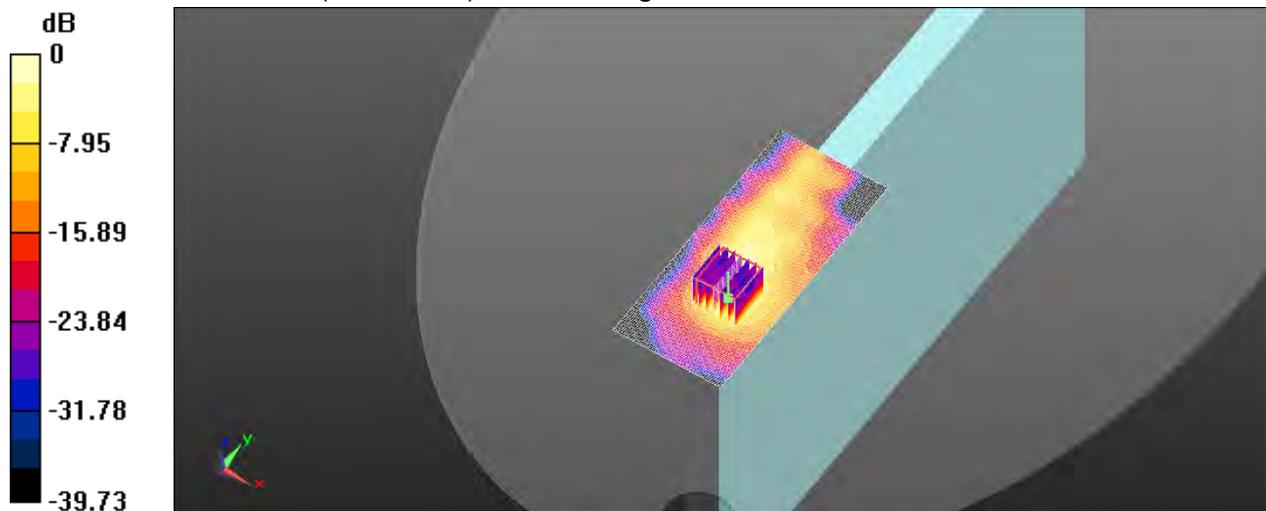
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.252 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.22 W/kg

**SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.239 W/kg**

Maximum value of SAR (measured) = 1.90 W/kg



0 dB = 1.90 W/kg = 2.79 dBW/kg

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Date: 2019/1/14

**WLAN 802.11ac(80M) 5.8G\_Body\_Top side\_CH 155\_Aux\_0mm**

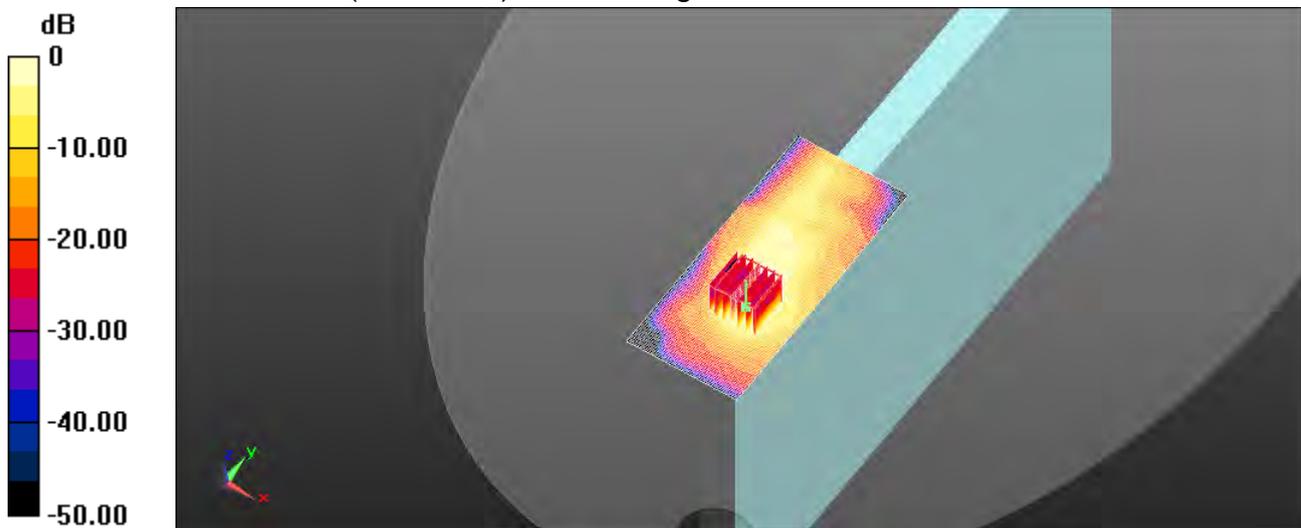
Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 6.116 \text{ S/m}$ ;  $\epsilon_r = 47.47$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Ambient temperature:  $21.5^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Area Scan (61x141x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$   
Maximum value of SAR (interpolated) =  $1.43 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $3.531 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$   
Peak SAR (extrapolated) =  $3.86 \text{ W/kg}$   
**SAR(1 g) =  $0.757 \text{ W/kg}$ ; SAR(10 g) =  $0.236 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.69 \text{ W/kg}$



0 dB =  $1.69 \text{ W/kg} = 2.28 \text{ dBW/kg}$

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## 6. SAR System Performance Verification

Date: 2019/1/18

### Dipole 750 MHz\_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.976 \text{ S/m}$ ;  $\epsilon_r = 57.515$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

 Ambient temperature:  $22.2^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$ 

#### DASY5 Configuration:

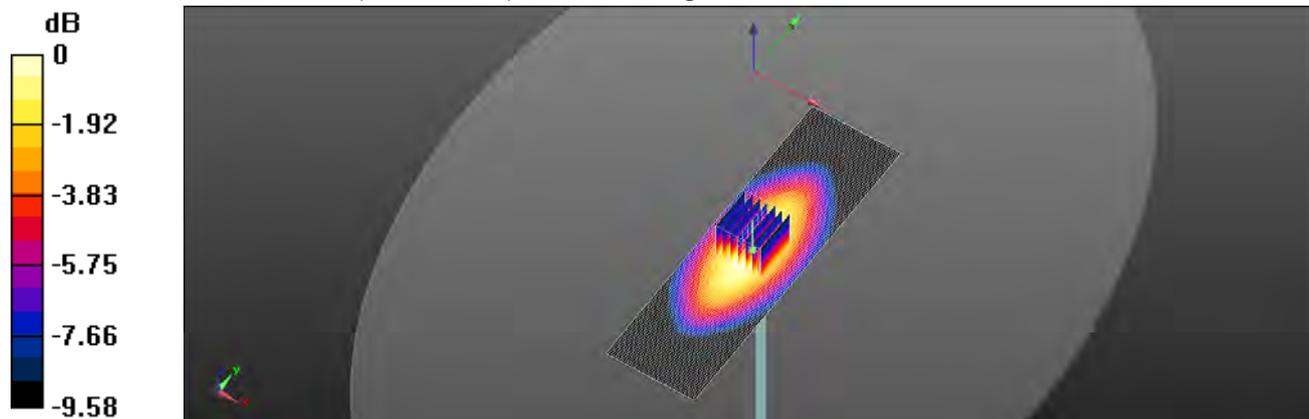
- Probe: EX3DV4 - SN3770;ConvF(9.97, 9.97, 9.97);Calibrated: 2018/4/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=250mW/Area Scan (41x141x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

 Maximum value of SAR (interpolated) =  $2.73 \text{ W/kg}$ 
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

 Reference Value =  $53.96 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$ 

 Peak SAR (extrapolated) =  $3.16 \text{ W/kg}$ 
**SAR(1 g) =  $2.19 \text{ W/kg}$ ; SAR(10 g) =  $1.47 \text{ W/kg}$** 

 Maximum value of SAR (measured) =  $2.74 \text{ W/kg}$ 

 $0 \text{ dB} = 2.74 \text{ W/kg} = 4.38 \text{ dBW/kg}$ 

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Date: 2019/1/19

### Dipole 835 MHz\_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.996 \text{ S/m}$ ;  $\epsilon_r = 57.269$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Ambient temperature:  $21.6^\circ\text{C}$ ; Liquid temperature:  $21.9^\circ\text{C}$

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770;ConvF(9.72, 9.72, 9.72);Calibrated: 2018/4/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=250mW/Area Scan (41x121x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$   
Maximum value of SAR (interpolated) =  $3.06 \text{ W/kg}$

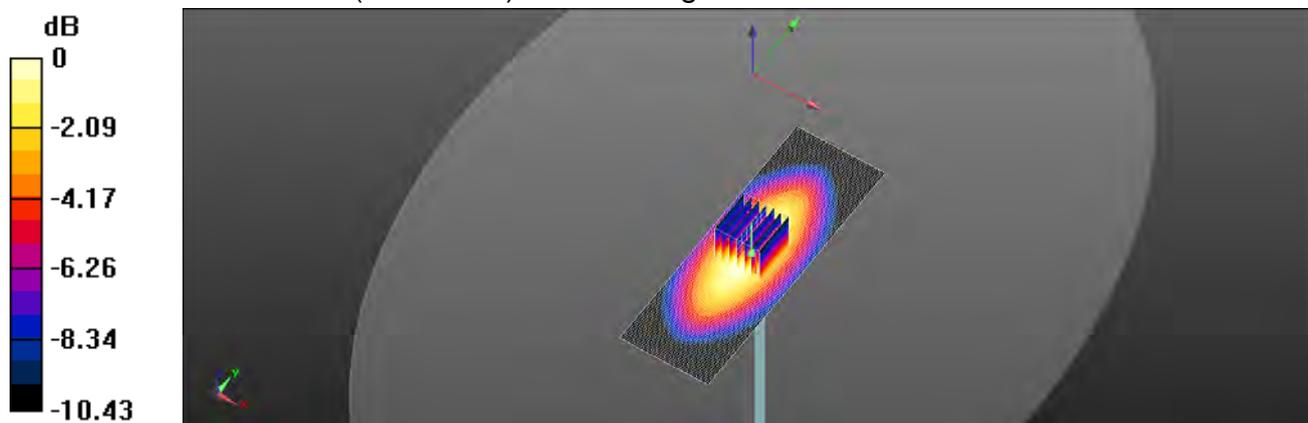
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $56.58 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$

Peak SAR (extrapolated) =  $3.61 \text{ W/kg}$

**SAR(1 g) =  $2.42 \text{ W/kg}$ ; SAR(10 g) =  $1.57 \text{ W/kg}$**

Maximum value of SAR (measured) =  $3.07 \text{ W/kg}$



0 dB =  $3.07 \text{ W/kg} = 4.87 \text{ dBW/kg}$

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Date: 2019/1/21

### Dipole 1750 MHz\_SN:1008

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.424$  S/m;  $\epsilon_r = 51.393$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26) ;Calibrated: 2018/4/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.0 W/kg

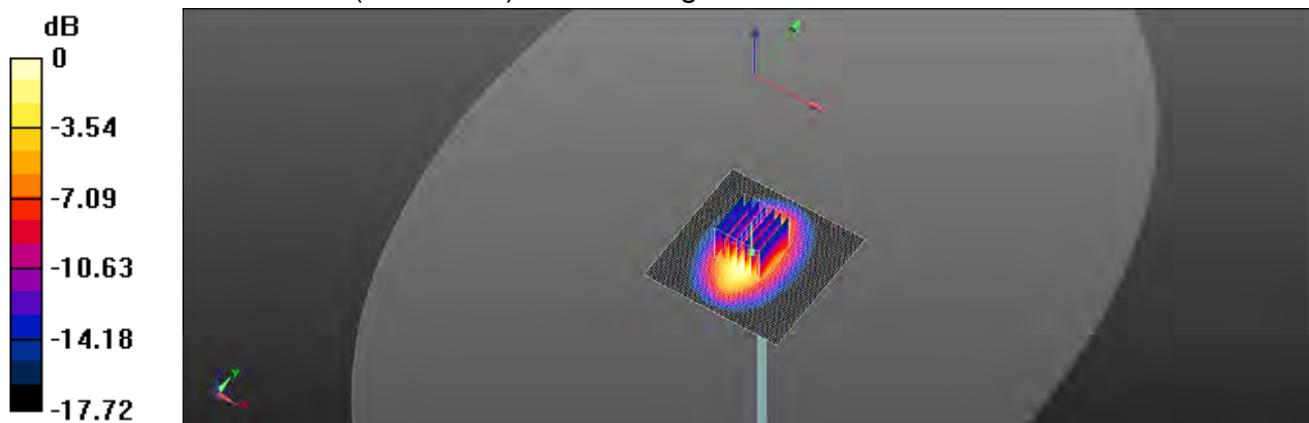
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.89 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 17.0 W/kg

**SAR(1 g) = 9.02 W/kg; SAR(10 g) = 4.71 W/kg**

Maximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.17 dBW/kg

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Date: 2019/1/22

### Dipole 1900 MHz\_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.578$  S/m;  $\epsilon_r = 50.853$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.7°C; Liquid temperature: 21.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8, 8, 8); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15 mm, dy=15 mm  
Maximum value of SAR (interpolated) = 14.4 W/kg

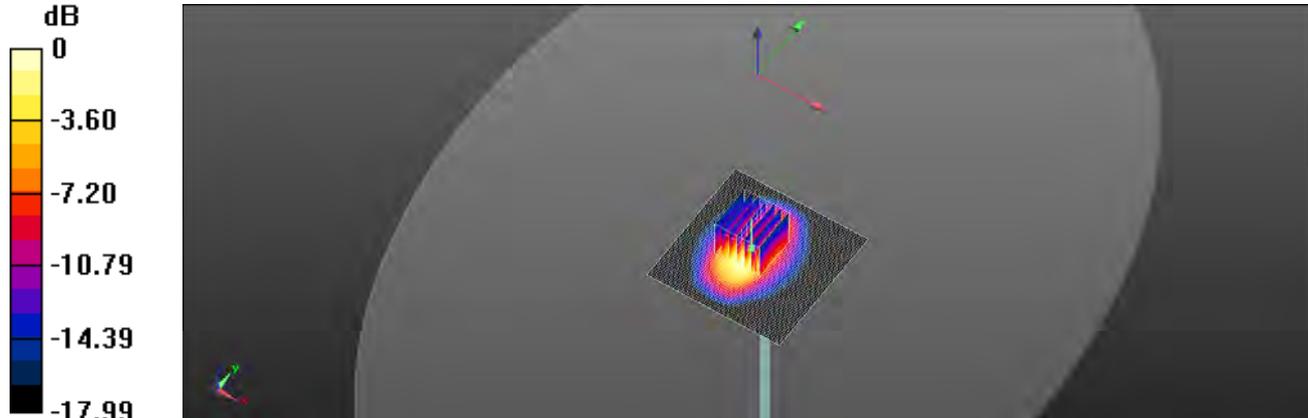
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 85.47 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.7 W/kg

**SAR(1 g) = 10 W/kg; SAR(10 g) = 5.12 W/kg**

Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg = 11.61 dBW/kg

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Date: 2019/1/23

**Dipole 2300 MHz\_SN:1023**

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2300 \text{ MHz}$ ;  $\sigma = 1.842 \text{ S/m}$ ;  $\epsilon_r = 53.586$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $21.5^\circ\text{C}$ ; Liquid temperature:  $22.0^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3770;ConvF(7.68, 7.68, 7.68);Calibrated: 2018/4/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=250mW/Area Scan (51x51x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) =  $18.9 \text{ W/kg}$

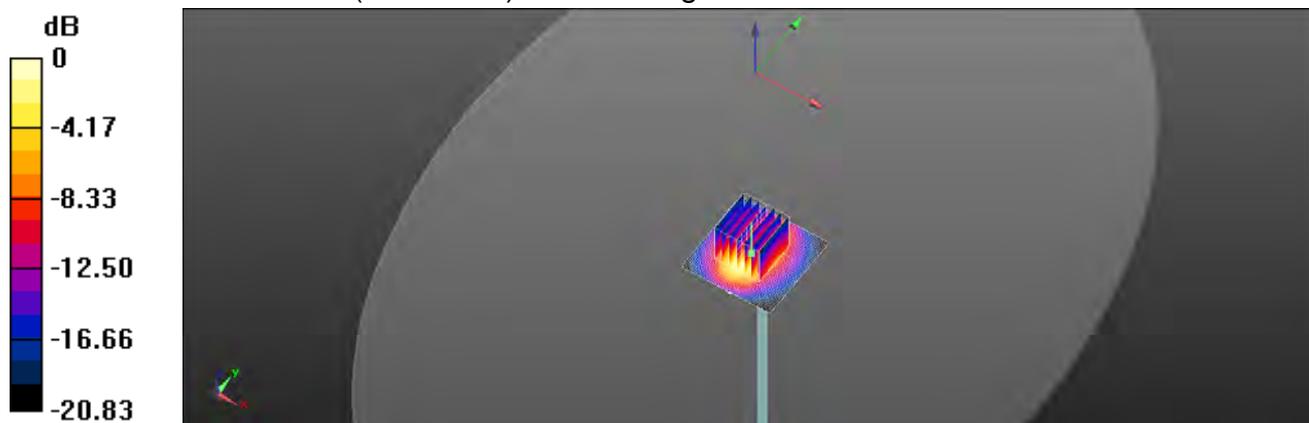
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $95.64 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$

Peak SAR (extrapolated) =  $23.8 \text{ W/kg}$

**SAR(1 g) =  $11.9 \text{ W/kg}$ ; SAR(10 g) =  $5.6 \text{ W/kg}$**

Maximum value of SAR (measured) =  $18.0 \text{ W/kg}$



0 dB =  $18.0 \text{ W/kg} = 12.55 \text{ dBW/kg}$

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Date: 2019/1/4

**Dipole 2450 MHz\_SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.981$  S/m;  $\epsilon_r = 53.993$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(7.3, 7.3, 7.3);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=250mW/Area Scan (51x51x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.2 W/kg

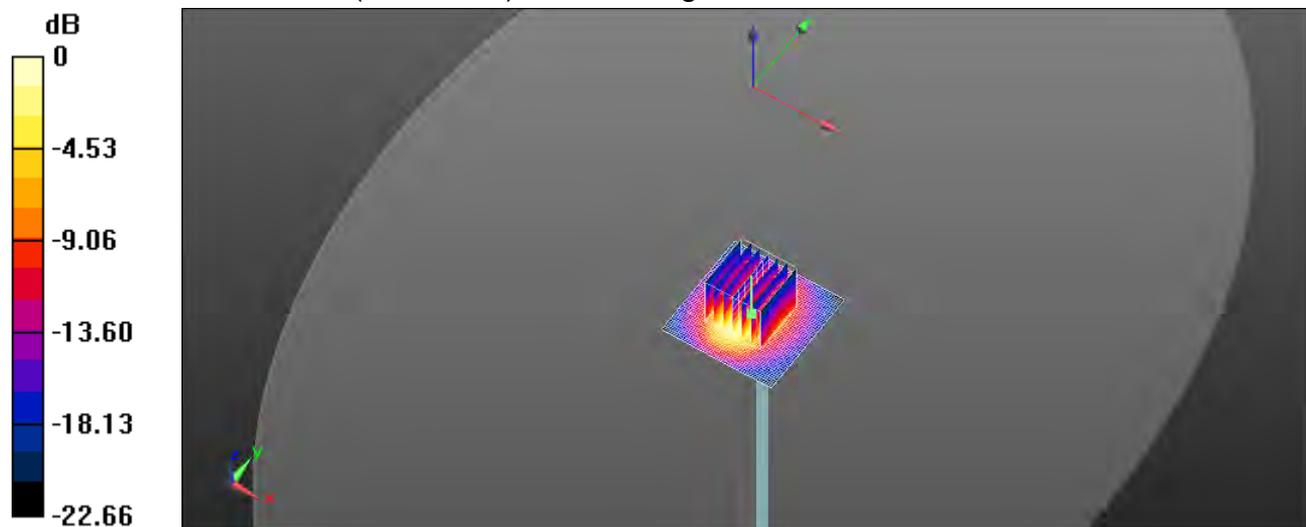
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.98 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 25.6 W/kg

**SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.66 W/kg**

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.0 W/kg = 12.79 dBW/kg

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Date: 2019/1/10

### Dipole 2450 MHz\_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.981$  S/m;  $\epsilon_r = 53.993$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(7.3, 7.3, 7.3);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=250mW/Area Scan (51x51x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.9 W/kg

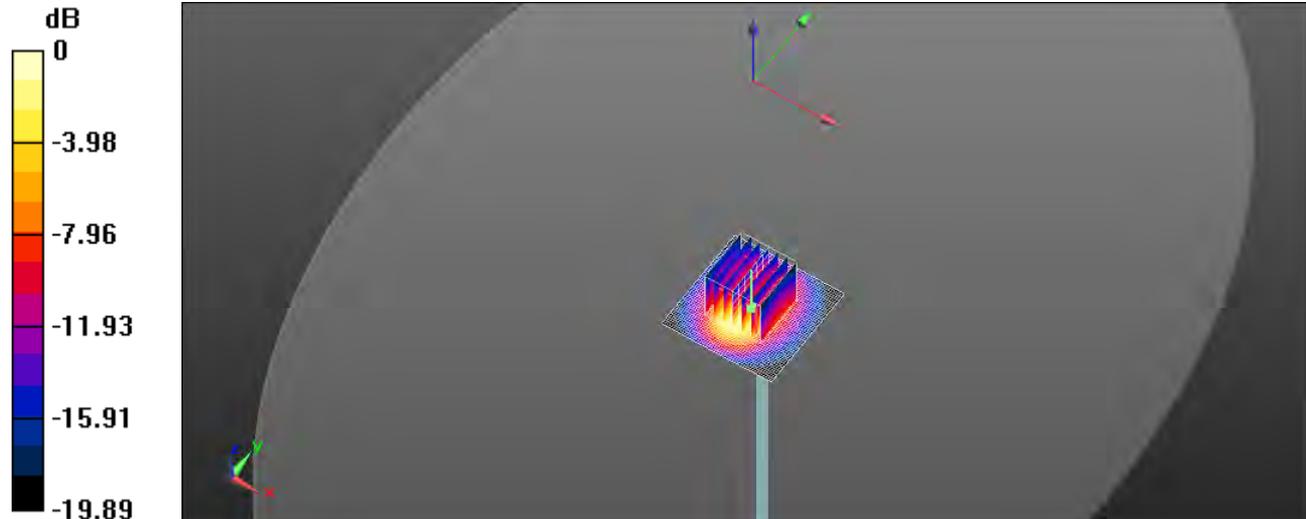
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.53 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 25.3 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.32 W/kg**

Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg

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Date: 2019/1/24

### Dipole 2600 MHz\_SN:1058

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.073$  S/m;  $\epsilon_r = 52.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 22.3°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=12 mm, dy=12 mm  
Maximum value of SAR (interpolated) = 21.6 W/kg

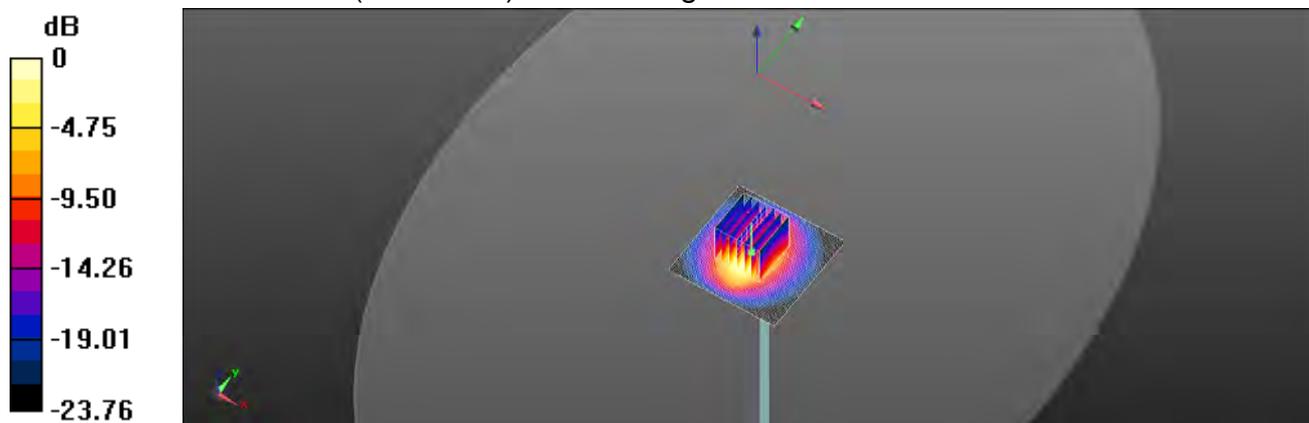
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.63 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 29.9 W/kg

**SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.13 W/kg**

Maximum value of SAR (measured) = 21.7 W/kg



0 dB = 21.7 W/kg = 13.36 dBW/kg

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Date: 2019/1/4

### Dipole 5200 MHz\_SN:1023

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.162$  S/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=100mW/Area Scan (51x51x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.4 W/kg

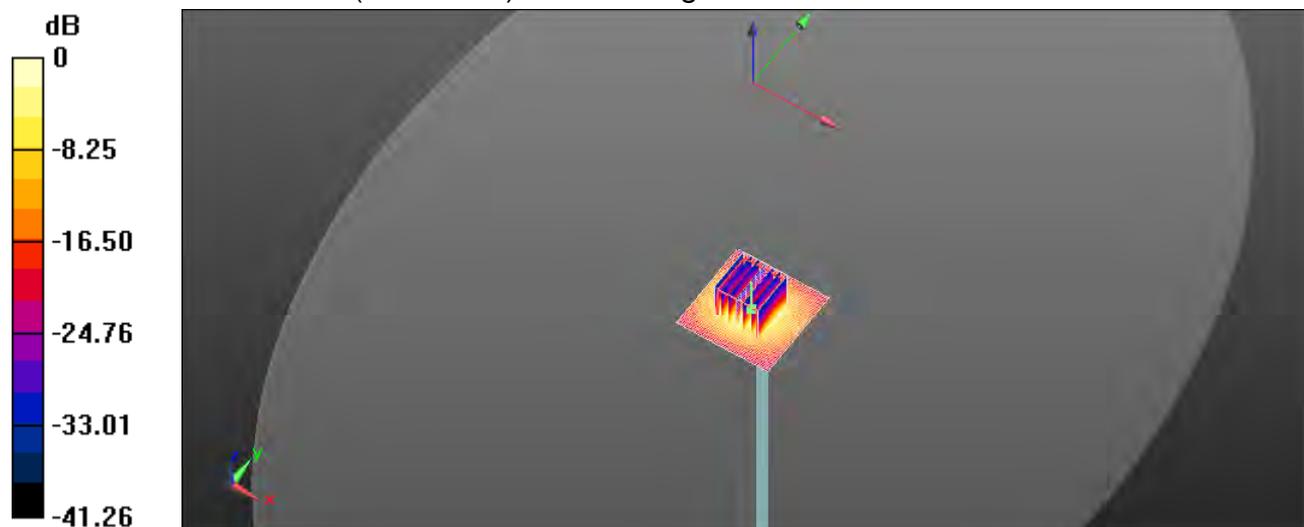
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.31 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 32.6 W/kg

**SAR(1 g) = 7.15 W/kg; SAR(10 g) = 2 W/kg**

Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.85 dBW/kg

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Date: 2019/1/10

### Dipole 5200 MHz\_SN:1023

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.164$  S/m;  $\epsilon_r = 49.299$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=100mW/Area Scan (51x51x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 14.7 W/kg

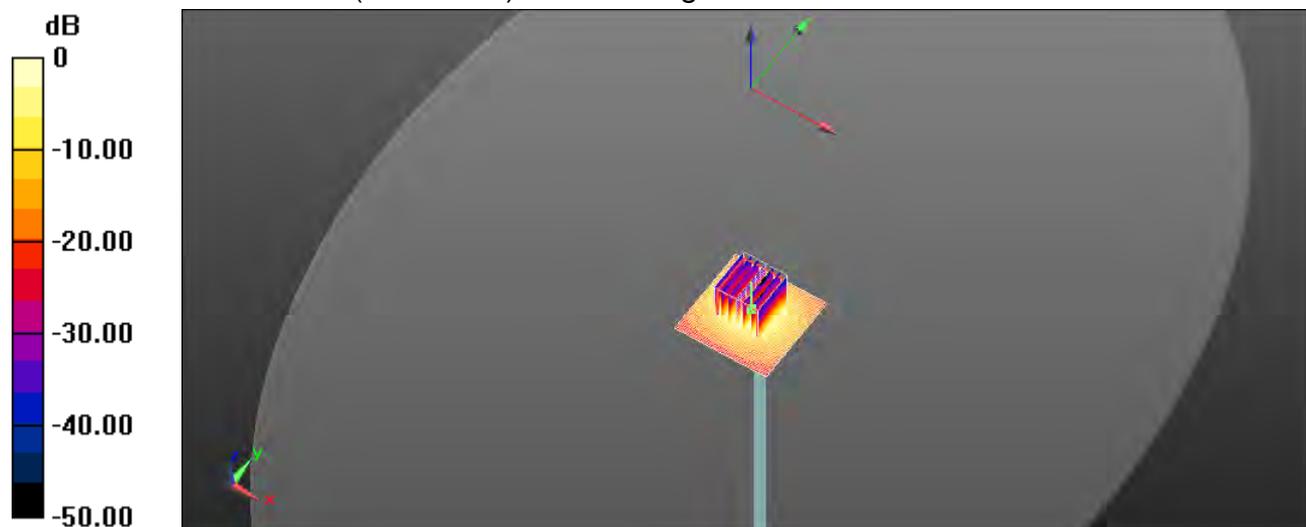
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.01 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 32.8 W/kg

**SAR(1 g) = 7.14 W/kg; SAR(10 g) = 1.99 W/kg**

Maximum value of SAR (measured) = 15.4 W/kg



0 dB = 15.4 W/kg = 11.88 dBW/kg

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Date: 2019/1/7

**Dipole 5300 MHz\_SN:1023**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 5.329 \text{ S/m}$ ;  $\epsilon_r = 49.036$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=100mW/Area Scan (51x51x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

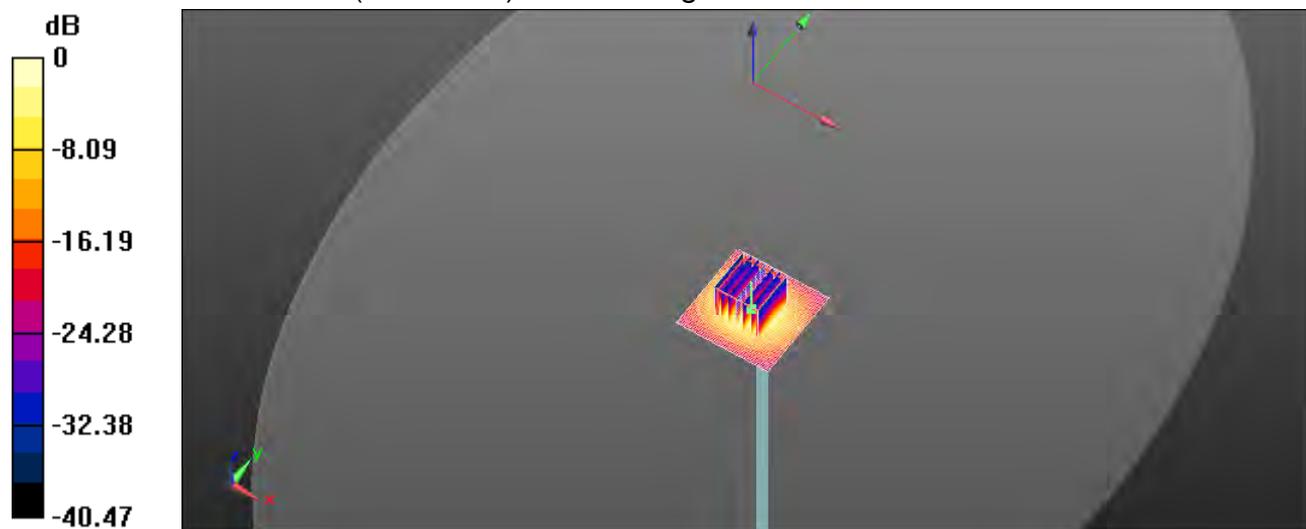
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.41 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 33.4 W/kg

**SAR(1 g) = 7.39 W/kg; SAR(10 g) = 2.05 W/kg**

Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 15.7 W/kg = 11.96 dBW/kg

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Date: 2019/1/11

### Dipole 5300 MHz\_SN:1023

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.329$  S/m;  $\epsilon_r = 49.013$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 22.2°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4.23, 4.23, 4.23);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

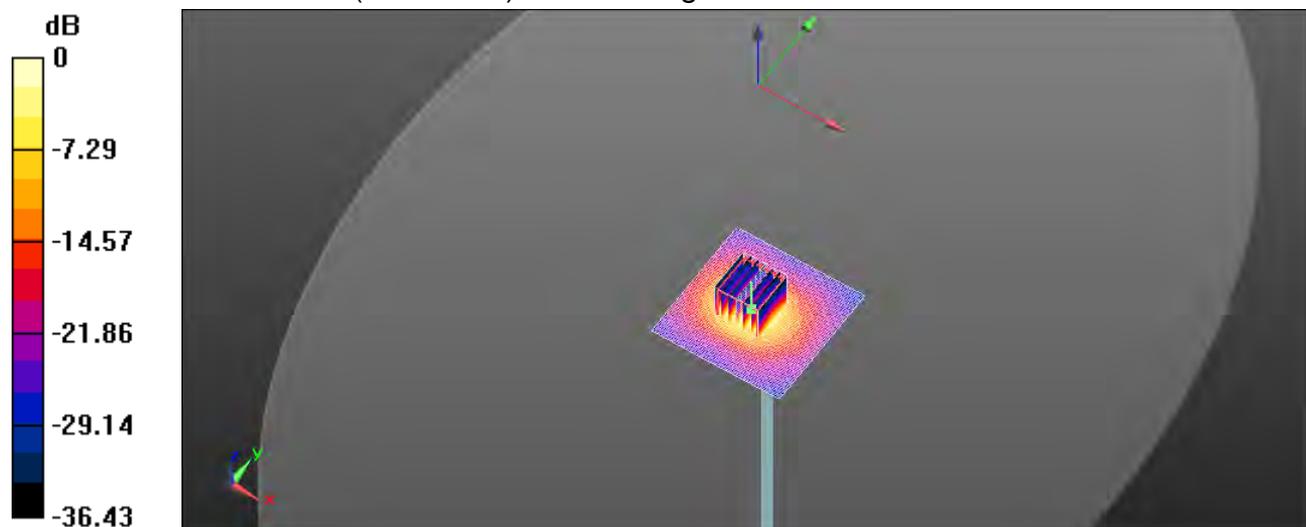
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.73 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 33.1 W/kg

**SAR(1 g) = 7.6 W/kg; SAR(10 g) = 2.13 W/kg**

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg

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Date: 2019/1/8

### Dipole 5600 MHz\_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.814$  S/m;  $\epsilon_r = 48.071$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(3.77, 3.77, 3.77);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=100mW/Area Scan (81x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

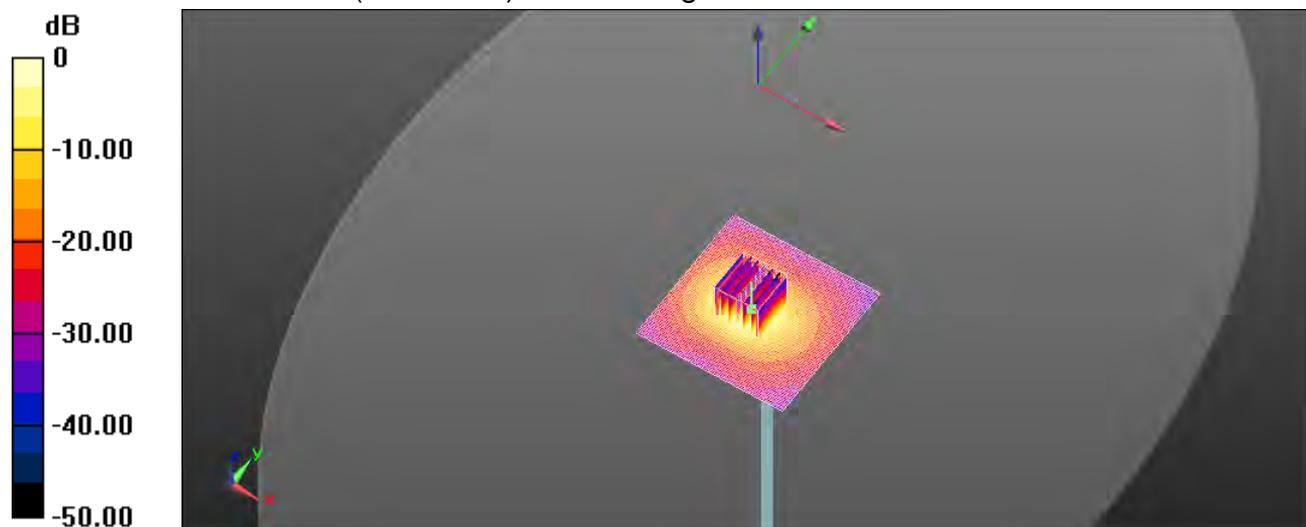
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 54.90 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 37.0 W/kg

**SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.23 W/kg**

Maximum value of SAR (measured) = 17.5 W/kg



0 dB = 17.5 W/kg = 12.43 dBW/kg

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Date: 2019/1/12

### Dipole 5600 MHz\_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.824$  S/m;  $\epsilon_r = 48.035$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(3.77, 3.77, 3.77);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=100mW/Area Scan (81x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

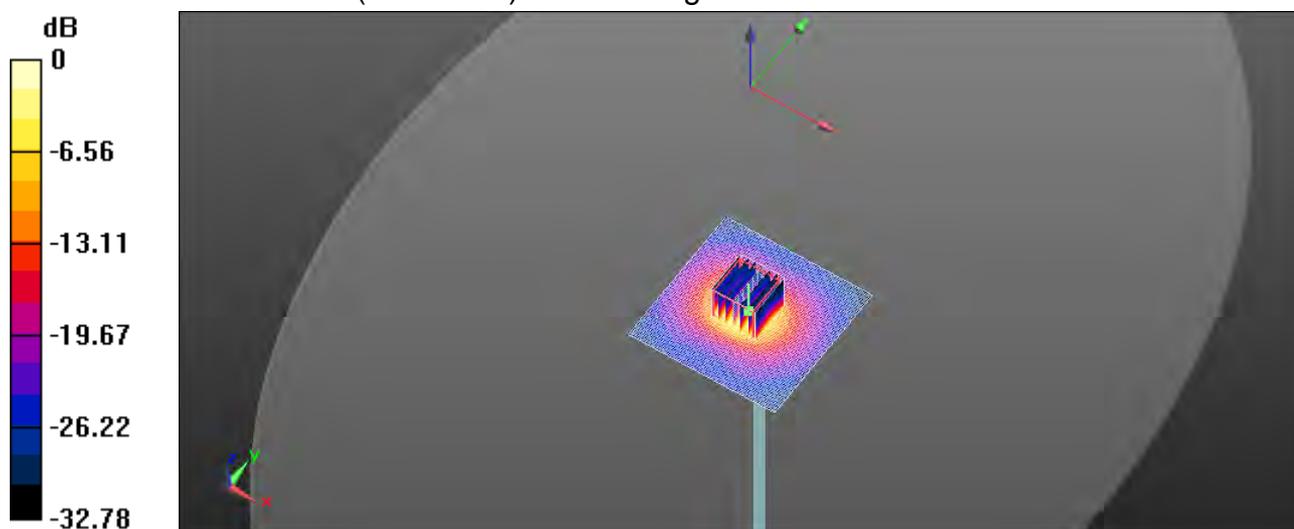
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.57 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 37.6 W/kg

**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.23 W/kg**

Maximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg

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Date: 2019/1/9

### Dipole 5800 MHz\_SN:1023

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.143$  S/m;  $\epsilon_r = 47.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.8°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=100mW/Area Scan (81x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 14.3 W/kg

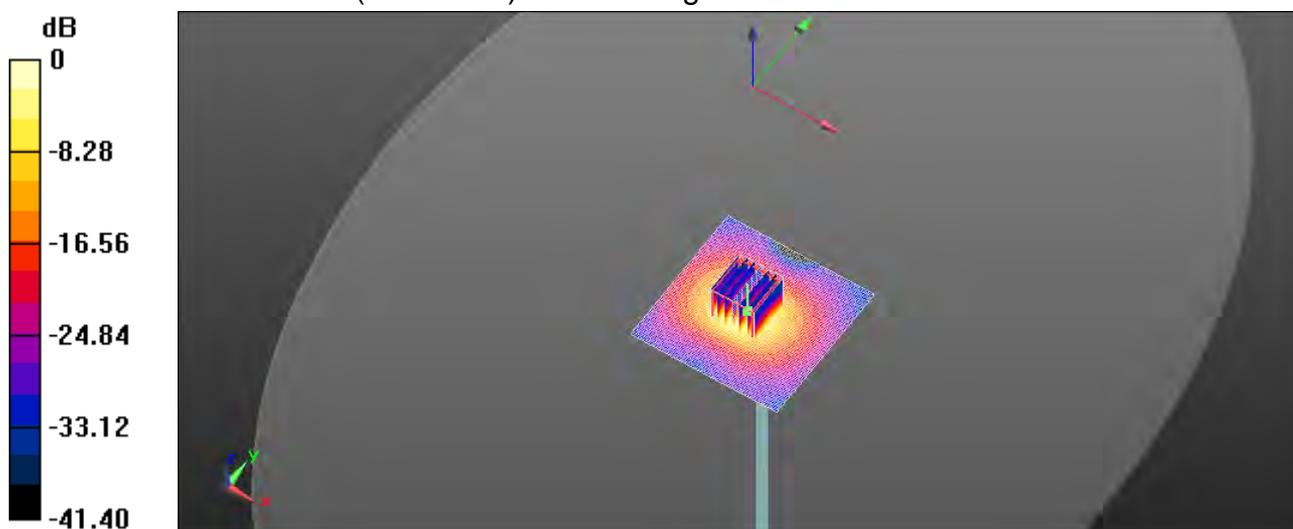
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 50.61 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 34.6 W/kg

**SAR(1 g) = 7.14 W/kg; SAR(10 g) = 1.98 W/kg**

Maximum value of SAR (measured) = 15.5 W/kg



0 dB = 15.5 W/kg = 11.90 dBW/kg

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Date: 2019/1/14

**Dipole 5800 MHz\_SN:1023**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

 Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 6.153 \text{ S/m}$ ;  $\epsilon_r = 47.438$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

 Ambient temperature:  $21.5^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$ 
**DASY5 Configuration:**

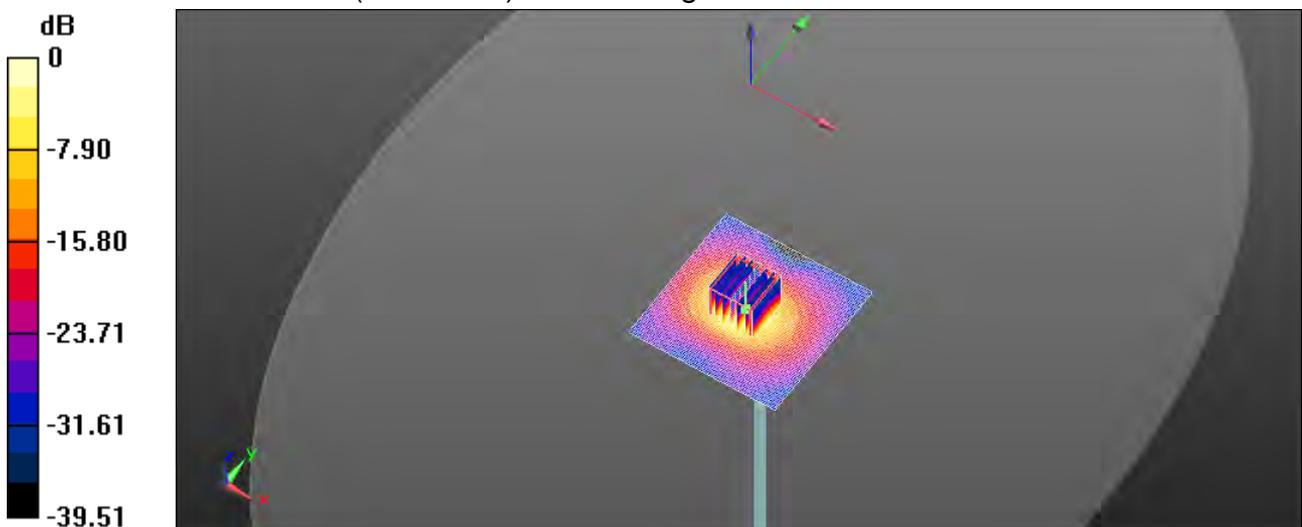
- Probe: EX3DV4 - SN3938;ConvF(4, 4, 4);Calibrated: 2018/10/24
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Pin=100mW/Area Scan (81x81x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$ 

 Maximum value of SAR (interpolated) =  $14.4 \text{ W/kg}$ 
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

 Reference Value =  $51.25 \text{ V/m}$ ; Power Drift =  $0.07 \text{ dB}$ 

 Peak SAR (extrapolated) =  $34.7 \text{ W/kg}$ 
**SAR(1 g) =  $7.21 \text{ W/kg}$ ; SAR(10 g) =  $2.01 \text{ W/kg}$** 

 Maximum value of SAR (measured) =  $15.7 \text{ W/kg}$ 

 $0 \text{ dB} = 15.7 \text{ W/kg} = 11.96 \text{ dBW/kg}$ 

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## 7. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	c	D	e		f	g	$h=c * f / e$	$i=c * g / e$	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
<b>Measurement system</b>									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	$\infty$
<i>Isotropy , Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	$\infty$
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	$\infty$
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	$\infty$
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	$\infty$
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	$\infty$
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	$\infty$
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	$\infty$
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	$\infty$
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	$\infty$
<b>Measurement drift (class A evaluation)</b>	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	$\infty$
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	$\infty$
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	$\infty$
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	$\infty$
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	$\infty$
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	$\infty$
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	$\infty$
<b>Test Sample related</b>									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	$\infty$
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	$\infty$
Liquid permittivity (mea.)	1.61%	N	1	1	0.64	0.43	1.03%	0.69%	M
Liquid Conductivity (mea.)	4.50%	N	1	1	0.6	0.49	2.70%	2.21%	M
Combined standard uncertainty		RSS					12.07%	11.93%	
Expant uncertainty (95% confidence interval), K=2							24.13%	23.87%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
<b>Measurement system</b>									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	4.64%	N	1	1	0.64	0.43	2.97%	2.00%	M
Liquid Conductivity (mea.)	4.83%	N	1	1	0.6	0.49	2.90%	2.37%	M
Combined standard uncertainty		RSS					12.15%	11.82%	
Expant uncertainty (95% confidence interval), K=2							24.30%	23.64%	

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## Appendixes

**Refer to separated files for the following appendixes.**

**EN2018C0018 SAR\_Appendix A Photographs**

**EN2018C0018 SAR\_Appendix B DAE & Probe Cal. Certificate**

**EN2018C0018 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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