

# SAR TEST REPORT



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

<b>Equipment Under Test</b>	Portable Computing Device
<b>Brand Name</b>	Microsoft
<b>Model No.</b>	2022
<b>Contains Wi-Fi Module</b>	
<b>Model No.</b>	1956
<b>Company Name</b>	Microsoft Corporation
<b>Company Address</b>	One Microsoft Way, Redmond, WA 98052-6399 USA
<b>Standards</b>	IEEE/ANSI C95.1-1992, IEEE 1528-2013
<b>FCC ID</b>	C3K2022
<b>Contains FCC ID</b>	C3K1956
<b>Date of Receipt</b>	Aug. 25, 2021
<b>Date of Test(s)</b>	Sep. 01, 2021 ~ Sep. 12, 2021
<b>Date of Issue</b>	Oct. 15, 2021



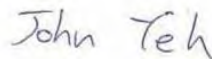
In the configuration tested, the EUT complied with the standards specified above.

## Remarks:

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

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## Signed on behalf of SGS

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

**Date: Oct. 15, 2021**

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## Revision History

Report Number	Revision	Description	Issue Date
E5/2021/80015	Rev.00	Initial creation of document	Oct. 15, 2021

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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

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## 0. Guidance applied

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB616217D04v01r02

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB447498D01v06

KDB248227D01v02r02

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# 1. General Information

## 1.1 Testing Laboratory

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

## 1.2 Details of Applicant

Company Name	Microsoft Corporation
Company Address	One Microsoft Way, Redmond, WA 98052-6399 USA

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### 1.3 Description of EUT

Equipment Under Test	Portable Computing Device			
Brand Name	Microsoft			
Model No.	2022			
FCC ID	C3K2022			
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/ac/ax(20M/40M/80M/160M) <input checked="" type="checkbox"/> Bluetooth			
Duty Cycle	WCDMA		100%	
	LTE FDD		100%	
	LTE TDD		63.3%	
	WLAN802.11 a/b/g/n/ac/ax(20M/40M/80/160M)		Refer to page 106	
	Bluetooth		76.8%	
TX Frequency Range (MHz)	WCDMA Band II	1850	—	1910
	WCDMA Band V	824	—	849
	LTE FDD Band 2	1850	—	1910
	LTE FDD Band 4	1710	—	1755
	LTE FDD Band 5	824	—	849
	LTE FDD Band 7	2500	—	2570
	LTE FDD Band 12	699	—	716
	LTE FDD Band 13	777	—	787
	LTE FDD Band 14	788	—	798
	LTE FDD Band 25	1850	—	1915
	LTE FDD Band 26	814	—	849
	LTE FDD Band 30	2305	—	2315

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TX Frequency Range (MHz)	LTE TDD Band 38	2570	—	2620
	LTE TDD Band 41	2496	—	2690
	LTE FDD Band 66	1710	—	1780
	WLAN802.11 b/g/n/ac(20M)	2412	—	2472
	WLAN802.11 n/ac(40M)	2422	—	2462
	WLAN802.11 a/n/ac/ax(20M) 5.2G	5180	—	5240
	WLAN802.11 n/ac/ax(40M) 5.2G	5190	—	5230
	WLAN802.11 ac/ax(80M) 5.2G			5210
	WLAN802.11 ac/ax(160M) 5.2G			5250
	WLAN802.11 a/n/ac/ax(20M) 5.3G	5260	—	5320
	WLAN802.11 n/ac/ax(40M) 5.3G	5270	—	5310
	WLAN802.11 ac/ax(80M) 5.3G			5290
	WLAN802.11 a/n/ac/ax(20M) 5.6G	5500	—	5720
	WLAN802.11 n/ac/ax(40M) 5.6G	5510	—	5710
	WLAN802.11 ac/ax(80M) 5.6G	5530	—	5690
	WLAN802.11 ac/ax(160M) 5.6G			5570
	WLAN802.11 a/n/ac/ax(20M) 5.8G	5745	—	5825
	WLAN802.11 n/ac/ax(40M) 5.8G	5755	—	5795
WLAN802.11 ac/ax(80M) 5.8G			5775	
Bluetooth	2402	—	2480	
Channel Number (ARFCN)	WCDMA Band II	9262	—	9538
	WCDMA Band V	4132	—	4233
	LTE FDD Band 2	18607	—	19193
	LTE FDD Band 4	19957	—	20393
	LTE FDD Band 5	20407	—	20643
	LTE FDD Band 7	20775	—	21425
	LTE FDD Band 12	23017	—	23173
	LTE FDD Band 13	23205	—	23255
	LTE FDD Band 14	23305	—	23355
	LTE FDD Band 25	26047	—	26683

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Channel Number (ARFCN)	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/ac(20M)	1	—	13
	WLAN802.11 n/ac(40M)	3	—	11
	WLAN802.11 a/n/ac/ax(20M) 5.2G	36	—	48
	WLAN802.11 n/ac/ax(40M) 5.2G	38	—	46
	WLAN802.11 ac/ax(80M) 5.2G			42
	WLAN802.11 ac/ax(160M) 5.2G			50
	WLAN802.11 a/n/ac/ax(20M) 5.3G	52	—	64
	WLAN802.11 n/ac/ax(40M) 5.3G	54	—	62
	WLAN802.11 ac/ax(80M) 5.3G			58
	WLAN802.11 a/n/ac/ax(20M) 5.6G	100	—	144
	WLAN802.11 n/ac/ax(40M) 5.6G	102	—	142
	WLAN802.11 ac/ax(80M) 5.6G	106	—	138
	WLAN802.11 ac/ax(160M) 5.6G			114
	WLAN802.11 a/n/ac/ax(20M) 5.8G	149	—	165
	WLAN802.11 n/ac/ax(40M) 5.8G	151	—	159
WLAN802.11 ac/ax(80M) 5.8G			155	
Bluetooth	0	—	78	

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**WWAN (sensor off)**

Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WCDMA Band II	0.81	1.01	9262	Top Edge
WCDMA Band V	0.28	0.36	4233	Left Edge
LTE FDD Band 2	0.57	0.68	18700	Back Surface
LTE FDD Band 4	0.93	0.95	20050	Top Edge
LTE FDD Band 5	0.20	0.33	20600	Back Surface
LTE FDD Band 7	0.79	0.95	20850	Left Edge
LTE FDD Band 12	0.23	0.28	23130	Back Surface
LTE FDD Band 13	0.20	0.24	23230	Back Surface
LTE FDD Band 14	0.21	0.25	23330	Back Surface
LTE FDD Band 25	0.76	0.90	26140	Top Edge
LTE FDD Band 26	0.21	0.26	26965	Back Surface
LTE FDD Band 30	0.23	0.24	27710	Left Edge
LTE TDD Band 38	0.29	0.35	37850	Left Edge
LTE TDD Band 41	0.47	0.58	39750	Left Edge

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**WWAN (sensor on)**

Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WCDMA Band II	0.65	0.74	9400	Back Surface
WCDMA Band V	0.71	0.85	4233	Top Edge
LTE FDD Band 2	0.68	0.73	18700	Back Surface
LTE FDD Band 4	0.70	0.76	20050	Top Edge
LTE FDD Band 5	0.44	0.53	20450	Back Surface
LTE FDD Band 7	0.64	0.72	21100	Back Surface
LTE FDD Band 12	0.58	0.72	23060	Back Surface
LTE FDD Band 13	0.50	0.59	23230	Back Surface
LTE FDD Band 14	0.44	0.51	23330	Back Surface
LTE FDD Band 25	0.68	0.73	26140	Back Surface
LTE FDD Band 26	0.43	0.51	26965	Back Surface
LTE FDD Band 30	0.56	0.67	27710	Back Surface
LTE TDD Band 38	0.58	0.68	37850	Back Surface
LTE TDD Band 41	0.56	0.61	40620	Back Surface

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**WLAN hotspot (sensor off)**

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
TX1	WLAN 802.11b	0.21	0.27	1	Back Surface
	WLAN 802.11ac(160M) 5.2G	0.13	0.14	50	Back Surface
	WLAN 802.11ac(80M) 5.3G	0.15	0.17	58	Back Surface
	WLAN 802.11ac(80M) 5.6G	0.14	0.18	138	Back Surface
	WLAN 802.11ac(160M) 5.6G	0.16	0.18	114	Back Surface
	WLAN 802.11ac(80M) 5.8G	0.20	0.24	155	Back Surface
TX2	WLAN 802.11b	0.22	0.30	1	Back Surface
	Bluetooth(GFSK)	0.30	0.42	39	Back Surface
	WLAN 802.11ac(160M) 5.2G	0.12	0.13	50	Back Surface
	WLAN 802.11ac(80M) 5.3G	0.10	0.12	58	Back Surface
	WLAN 802.11ac(80M) 5.6G	0.08	0.10	106	Back Surface
	WLAN 802.11ac(160M) 5.6G	0.16	0.18	114	Back Surface
	WLAN 802.11ac(80M) 5.8G	0.13	0.15	155	Back Surface

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**WLAN hotspot (sensor on)**

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
TX1	WLAN 802.11b	0.08	0.10	1	Top Curve Edge
	WLAN 802.11ac(160M) 5.2G	0.12	0.12	50	Top Edge
	WLAN 802.11ac(80M) 5.3G	0.13	0.15	58	Top Edge
	WLAN 802.11ac(80M) 5.6G	0.13	0.16	106	Top Edge
	WLAN 802.11ac(160M) 5.6G	0.15	0.17	114	Top Edge
	WLAN 802.11ac(80M) 5.8G	0.09	0.10	155	Top Edge
TX2	WLAN 802.11b	0.20	0.28	1	Back Surface
	WLAN 802.11ac(160M) 5.2G	0.10	0.11	50	Back Surface
	WLAN 802.11ac(80M) 5.3G	0.09	0.11	58	Back Surface
	WLAN 802.11ac(80M) 5.6G	0.11	0.13	106	Back Surface
	WLAN 802.11ac(160M) 5.6G	0.12	0.14	114	Back Surface
	WLAN 802.11ac(80M) 5.8G	0.08	0.09	155	Back Surface

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**WLAN only (sensor off)**

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
TX1	WLAN 802.11b	0.79	1.00	11	Back Surface
	WLAN 802.11n(40M) 5.2G	0.55	0.70	46	Back Surface
	WLAN 802.11n(40M) 5.3G	0.72	0.92	62	Back Surface
	WLAN 802.11ac(80M) 5.6G	0.51	0.70	106	Back Surface
	WLAN 802.11n(40M) 5.8G	0.77	0.99	159	Back Surface
	WLAN 802.11ac(80M) 5.8G	0.64	0.81	155	Back Surface
TX2	WLAN 802.11b	0.81	1.15	1	Back Surface
	Bluetooth(GFSK)	0.30	0.42	39	Back Surface
	WLAN 802.11a 5.2G	0.84	1.18	40	Back Surface*
	WLAN 802.11n(40M) 5.2G	0.89	1.15	46	Back Surface
	WLAN 802.11a 5.3G	0.82	1.18	60	Back Surface
	WLAN 802.11n(40M) 5.3G	0.88	1.13	54	Back Surface
	WLAN 802.11n(40M) 5.6G	0.80	1.16	110	Back Surface*
	WLAN 802.11ac(80M) 5.6G	0.86	1.08	138	Back Surface
	WLAN 802.11n(40M) 5.8G	0.85	1.16	151	Back Surface
	WLAN 802.11ac(80M) 5.8G	0.90	1.14	155	Back Surface

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**WLAN only (sensor on)**

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
TX1	WLAN 802.11b	0.65	0.83	1	Top Curve Edge
	WLAN 802.11ac(80M) 5.2G	0.59	0.72	42	Top Edge
	WLAN 802.11ac(160M) 5.2G	0.59	0.72	42	Top Edge
	WLAN 802.11n(40M) 5.3G	0.71	0.79	50	Top Edge
	WLAN 802.11ac(80M) 5.3G	0.71	0.79	50	Top Edge
	WLAN 802.11ac(80M) 5.6G	0.71	0.90	62	Top Edge
	WLAN 802.11ac(160M) 5.6G	0.87	1.05	114	Top Edge
	WLAN 802.11ac(80M) 5.8G	0.53	0.67	155	Top Edge
TX2	WLAN 802.11b	0.89	1.14	11	Back Surface
	Bluetooth(GFSK)	0.30	0.42	39	Back Surface
	WLAN 802.11ac(80M) 5.2G	0.66	0.83	42	Back Surface
	WLAN 802.11ac(160M) 5.2G	0.76	0.89	50	Back Surface
	WLAN 802.11n(40M) 5.3G	0.67	0.87	62	Back Surface
	WLAN 802.11ac(80M) 5.3G	0.68	0.87	58	Back Surface
	WLAN 802.11ac(80M) 5.6G	0.87	1.15	106	Back Surface
	WLAN 802.11ac(160M) 5.6G	0.91	1.15	114	Back Surface
	WLAN 802.11n(40M) 5.8G	0.81	1.09	151	Back Surface
	WLAN 802.11ac(80M) 5.8G	0.84	1.07	155	Back Surface

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## Antenna Information

TB										
Vendor	Advanced Wireless & Antenna Inc.									
Antenna	TX1 (Monopole)					TX2(Monopole)				
Part Number	DQ60AML0001									
Frequency	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	0.30	-1.80	-2.50	-0.20	-1.50	-0.90	-1.80	-1.90	-1.70	-1.40

Gain table(dBi)	
Antenna	WWAN Main
Part Number	DQ60AML0001
Mode	Tablet mode
WCDMA BII	0.70
WCDMA BV	-2.50
LTE Band 2	0.70
LTE Band 4	2.40
LTE Band 5	-2.50
LTE Band 7	1.30
LTE Band 12	-2.00
LTE Band 13	-1.90
LTE Band 14	-1.90
LTE Band 25	0.70
LTE Band 26	-2.50
LTE Band 30	0.40
LTE Band 38	0.60
LTE Band 41	1.30
LTE Band 66	2.40

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

### 1.3.1 Sensor off-WCDMA

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

Unit: dBm

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		25.00		
3GPP Rel 99	RMC 12.2Kbps	24.03	24.16	24.19
3GPP Rel 5	HSDPA Subtest-1	23.97	23.84	24.03
	HSDPA Subtest-2	23.85	23.90	23.93
	HSDPA Subtest-3	23.44	23.47	23.46
	HSDPA Subtest-4	23.33	23.53	23.34
3GPP Rel 6	HSUPA Subtest-1	23.89	23.97	23.86
	HSUPA Subtest-2	21.99	22.02	21.96
	HSUPA Subtest-3	22.84	22.88	23.00
	HSUPA Subtest-4	21.95	21.83	21.96
	HSUPA Subtest-5	23.93	23.95	23.83
3GPP Rel 7	HSPA+	21.41	21.52	21.38
3GPP Rel 8	DC-HSDPA Subtest-1	24.01	23.85	23.91
	DC-HSDPA Subtest-2	23.86	23.88	23.95
	DC-HSDPA Subtest-3	23.49	23.38	23.45
	DC-HSDPA Subtest-4	23.50	23.45	23.50

Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		25.00		
3GPP Rel 99	RMC 12.2Kbps	23.98	24.21	23.91
3GPP Rel 5	HSDPA Subtest-1	23.77	23.81	23.84
	HSDPA Subtest-2	23.73	23.91	23.84
	HSDPA Subtest-3	23.22	23.40	23.40
	HSDPA Subtest-4	23.27	23.28	23.30
3GPP Rel 6	HSUPA Subtest-1	23.89	23.74	23.85
	HSUPA Subtest-2	21.85	21.74	21.84
	HSUPA Subtest-3	22.84	22.90	22.89
	HSUPA Subtest-4	21.81	21.71	21.78
	HSUPA Subtest-5	23.76	23.84	23.81
3GPP Rel 7	HSPA+	21.41	21.31	21.41
3GPP Rel 8	DC-HSDPA Subtest-1	23.80	23.91	23.84
	DC-HSDPA Subtest-2	23.73	23.81	23.74
	DC-HSDPA Subtest-3	23.31	23.35	23.23
	DC-HSDPA Subtest-4	23.33	23.39	23.26

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### 1.3.2 Sensor on-WCDMA

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

Unit: dBm

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		16.00		
3GPP Rel 99	RMC 12.2Kbps	15.31	15.42	15.43
3GPP Rel 5	HSDPA Subtest-1	15.24	15.16	15.16
	HSDPA Subtest-2	15.16	15.26	15.31
	HSDPA Subtest-3	14.79	14.69	14.68
	HSDPA Subtest-4	14.69	14.80	14.80
3GPP Rel 6	HSUPA Subtest-1	15.29	15.25	15.30
	HSUPA Subtest-2	13.20	13.29	13.19
	HSUPA Subtest-3	14.12	14.20	14.22
	HSUPA Subtest-4	13.24	13.28	13.12
3GPP Rel 7	HSUPA Subtest-5	15.21	15.23	15.20
	HSPA+	12.74	12.63	12.72
3GPP Rel 8	DC-HSDPA Subtest-1	15.15	15.28	15.14
	DC-HSDPA Subtest-2	15.23	15.21	15.21
	DC-HSDPA Subtest-3	14.64	14.73	14.71
	DC-HSDPA Subtest-4	14.74	14.78	14.79

Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		19.50		
3GPP Rel 99	RMC 12.2Kbps	18.68	18.78	18.72
3GPP Rel 5	HSDPA Subtest-1	18.58	18.61	18.55
	HSDPA Subtest-2	18.59	18.59	18.60
	HSDPA Subtest-3	18.10	18.09	18.13
	HSDPA Subtest-4	18.04	18.07	18.00
3GPP Rel 6	HSUPA Subtest-1	18.58	18.62	18.59
	HSUPA Subtest-2	16.64	16.58	16.54
	HSUPA Subtest-3	17.62	17.63	17.56
	HSUPA Subtest-4	16.63	16.66	16.58
3GPP Rel 7	HSUPA Subtest-5	18.61	18.66	18.59
	HSPA+	16.13	16.01	16.04
3GPP Rel 8	DC-HSDPA Subtest-1	18.61	18.58	18.56
	DC-HSDPA Subtest-2	18.59	18.59	18.61
	DC-HSDPA Subtest-3	18.07	18.16	18.09
	DC-HSDPA Subtest-4	18.01	17.99	18.16

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**Sub-Test for HSDPA**

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

**Sub-Test for HSUPA**

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

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### 1.3.3 Sensor off-LTE FDD

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

LTE Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1860	1880	1900			
Channel			18700	18900	19100			
20	QPSK	1	0	24.23	24.26	24.36	25.00	0
		1	50	24.11	24.22	24.21	25.00	0
		1	99	24.18	24.18	24.16	25.00	0
		50	0	23.13	23.05	23.08	24.00	1
		50	25	23.09	23.19	23.20	24.00	1
		50	50	23.06	23.17	23.06	24.00	1
		100	0	23.15	23.13	23.06	24.00	1
	16-QAM	1	0	23.09	23.19	23.16	24.00	1
		1	50	23.03	23.10	23.11	24.00	1
		1	99	23.06	23.19	23.20	24.00	1
		50	0	22.14	22.08	22.10	23.00	2
		50	25	22.11	22.09	22.21	23.00	2
		50	50	22.13	22.12	22.10	23.00	2
		100	0	22.06	22.06	22.22	23.00	2
	64-QAM	1	0	22.14	22.18	22.10	23.00	2
		1	50	22.12	22.12	22.13	23.00	2
		1	99	22.21	22.11	22.08	23.00	2
		50	0	21.13	21.16	21.15	22.00	3
		50	25	21.05	21.19	21.06	22.00	3
		50	50	21.08	21.04	21.05	22.00	3
		100	0	21.21	21.04	21.10	22.00	3
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1857.5	1880	1902.5			
Channel			18675	18900	19125			
15	QPSK	1	0	24.18	24.20	24.18	25.00	0
		1	36	24.13	24.13	24.22	25.00	0
		1	74	24.07	24.06	24.11	25.00	0
		36	0	23.17	23.11	23.19	24.00	1
		36	18	23.19	23.04	23.17	24.00	1
		36	37	23.14	23.03	23.09	24.00	1
		75	0	23.20	23.13	23.04	24.00	1
	16-QAM	1	0	23.04	23.17	23.10	24.00	1
		1	36	23.07	23.10	23.15	24.00	1
		1	74	23.05	23.09	23.22	24.00	1
		36	0	22.22	22.18	22.17	23.00	2
		36	18	22.07	22.09	22.16	23.00	2
		36	37	22.13	22.08	22.11	23.00	2
		75	0	22.06	22.07	22.18	23.00	2
	64-QAM	1	0	22.15	22.19	22.21	23.00	2
		1	36	22.15	22.20	22.05	23.00	2
		1	74	22.09	22.18	22.14	23.00	2
		36	0	21.21	21.15	21.07	22.00	3
		36	18	21.13	21.22	21.19	22.00	3
		36	37	21.07	21.06	21.06	22.00	3
		75	0	21.04	21.08	21.10	22.00	3

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LTE Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1880	1905			
Channel			18650	18900	19150			
10	QPSK	1	0	24.21	24.07	24.13	25.00	0
		1	25	24.14	24.16	24.13	25.00	0
		1	49	24.13	24.12	24.11	25.00	0
		25	0	23.13	23.03	23.22	24.00	1
		25	12	23.09	23.14	23.05	24.00	1
		25	25	23.22	23.11	23.18	24.00	1
	16-QAM	50	0	23.10	23.04	23.12	24.00	1
		1	0	23.05	23.19	23.12	24.00	1
		1	25	23.05	23.15	23.17	24.00	1
		1	49	23.04	23.19	23.06	24.00	1
		25	0	22.18	22.20	22.07	23.00	2
		25	12	22.07	22.06	22.23	23.00	2
	64-QAM	25	25	22.21	22.12	22.08	23.00	2
		50	0	22.09	22.21	22.13	23.00	2
		1	0	22.08	22.14	22.06	23.00	2
		1	25	22.04	22.17	22.18	23.00	2
		1	49	22.18	22.18	22.13	23.00	2
		25	0	21.07	21.19	21.16	22.00	3
	Frequency (MHz)			1852.5	1880	1907.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			18625	18900	19175		
	5	QPSK	1	0	24.12	24.12	24.15	25.00
1			12	24.20	24.10	24.05	25.00	0
1			24	24.18	24.14	24.16	25.00	0
12			0	23.14	23.20	23.19	24.00	1
12			6	23.12	23.09	23.04	24.00	1
12			13	23.17	23.04	23.09	24.00	1
16-QAM		25	0	23.19	23.09	23.16	24.00	1
		1	0	23.20	23.18	23.14	24.00	1
		1	12	23.10	23.17	23.07	24.00	1
		1	24	23.11	23.06	23.23	24.00	1
		12	0	22.05	22.20	22.16	23.00	2
		12	6	22.13	22.06	22.08	23.00	2
64-QAM		12	13	22.09	22.20	22.16	23.00	2
		25	0	22.12	22.23	22.06	23.00	2
		1	0	22.08	22.04	22.06	23.00	2
		1	12	22.04	22.08	22.06	23.00	2
		1	24	22.21	22.22	22.09	23.00	2
		12	0	21.08	21.13	21.03	22.00	3
Frequency (MHz)			1852.5	1880	1907.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			18625	18900	19175			
5		QPSK	12	6	22.13	22.06	22.08	23.00
	12		13	22.09	22.20	22.16	23.00	2
	25		0	22.12	22.23	22.06	23.00	2
	1		0	22.08	22.04	22.06	23.00	2
	1		12	22.04	22.08	22.06	23.00	2
	1		24	22.21	22.22	22.09	23.00	2
	16-QAM	12	0	21.08	21.13	21.03	22.00	3
		12	6	21.05	21.11	21.04	22.00	3
		12	13	21.09	21.13	21.08	22.00	3
		25	0	21.17	21.21	21.03	22.00	3

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LTE Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1851.5	1880	1908.5				
Channel			18615	18900	19185				
3	QPSK	1	0	24.12	24.21	24.15	25.00	0	
		1	7	24.13	24.09	24.04	25.00	0	
		1	14	24.08	24.10	24.16	25.00	0	
		8	0	23.14	23.21	23.10	24.00	1	
		8	4	23.12	23.21	23.08	24.00	1	
		8	7	23.16	23.11	23.12	24.00	1	
	16-QAM	15	0	23.21	23.15	23.23	24.00	1	
		1	0	23.11	23.09	23.20	24.00	1	
		1	7	23.20	23.06	23.10	24.00	1	
		1	14	23.04	23.14	23.16	24.00	1	
		8	0	22.11	22.10	22.11	23.00	2	
		8	4	22.16	22.14	22.14	23.00	2	
	64-QAM	8	7	22.19	22.22	22.15	23.00	2	
		15	0	22.05	22.07	22.17	23.00	2	
		1	0	22.10	22.21	22.22	23.00	2	
		1	7	22.06	22.22	22.16	23.00	2	
		1	14	22.19	22.18	22.16	23.00	2	
		8	0	21.08	21.18	21.15	22.00	3	
	1.4	QPSK	8	4	21.19	21.05	21.15	22.00	3
			8	7	21.04	21.05	21.09	22.00	3
			15	0	21.22	21.11	21.07	22.00	3
Frequency (MHz)			1850.7	1880	1909.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			18607	18900	19193				
1.4			QPSK	1	0			24.06	23.99
		1		2	24.16	24.17	24.15	25.00	0
		1		5	24.13	24.05	24.12	25.00	0
		3		0	24.03	23.97	23.98	25.00	0
		3		2	24.12	24.02	24.15	25.00	0
		3		3	23.98	24.00	24.09	25.00	0
		16-QAM	6	0	23.16	23.07	23.05	24.00	1
			1	0	23.07	23.08	23.00	24.00	1
			1	2	23.03	23.00	23.08	24.00	1
			1	5	23.05	23.14	23.02	24.00	1
			3	0	23.12	22.99	23.03	24.00	1
			3	2	23.14	23.04	23.11	24.00	1
		64-QAM	3	3	22.97	23.11	23.07	24.00	1
			6	0	22.14	22.17	22.05	23.00	2
			1	0	21.97	21.97	22.05	23.00	2
			1	2	22.04	22.00	22.07	23.00	2
	1		5	21.97	22.14	22.11	23.00	2	
	3		0	22.14	22.00	22.12	23.00	2	
64-QAM	3	2	22.17	22.17	22.12	23.00	2		
	3	3	22.10	22.06	22.14	23.00	2		
	6	0	21.06	21.11	21.11	22.00	3		

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LTE Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1720	1732.5	1745			
Channel			20050	20175	20300			
20	QPSK	1	0	23.92	23.81	23.76	24.00	0
		1	50	23.70	23.70	23.61	24.00	0
		1	99	23.58	23.60	23.75	24.00	0
		50	0	22.56	22.73	22.64	23.00	1
		50	25	22.69	22.63	22.67	23.00	1
		50	50	22.61	22.64	22.72	23.00	1
	16-QAM	100	0	22.69	22.72	22.74	23.00	1
		1	0	22.69	22.70	22.71	23.00	1
		1	50	22.62	22.65	22.57	23.00	1
		1	99	22.66	22.65	22.74	23.00	1
		50	0	21.72	21.65	21.67	22.00	2
		50	25	21.65	21.59	21.76	22.00	2
	64-QAM	50	50	21.65	21.57	21.71	22.00	2
		100	0	21.67	21.64	21.68	22.00	2
		1	0	21.64	21.66	21.67	22.00	2
		1	50	21.60	21.60	21.61	22.00	2
		1	99	21.58	21.72	21.57	22.00	2
		50	0	20.67	20.66	20.70	21.00	3
		50	25	20.75	20.56	20.70	21.00	3
		50	50	20.56	20.58	20.70	21.00	3
		100	0	20.68	20.72	20.69	21.00	3
Frequency (MHz)			1717.5	1732.5	1747.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20025	20175	20325			
15	QPSK	1	0	23.56	23.57	23.75	24.00	0
		1	36	23.67	23.74	23.66	24.00	0
		1	74	23.64	23.67	23.62	24.00	0
		36	0	22.72	22.67	22.74	23.00	1
		36	18	22.64	22.73	22.73	23.00	1
		36	37	22.62	22.62	22.62	23.00	1
	16-QAM	75	0	22.70	22.73	22.75	23.00	1
		1	0	22.62	22.68	22.71	23.00	1
		1	36	22.73	22.57	22.67	23.00	1
		1	74	22.74	22.63	22.69	23.00	1
		36	0	21.59	21.66	21.74	22.00	2
		36	18	21.66	21.61	21.57	22.00	2
	64-QAM	36	37	21.60	21.74	21.63	22.00	2
		75	0	21.61	21.62	21.70	22.00	2
		1	0	21.58	21.70	21.67	22.00	2
		1	36	21.60	21.60	21.58	22.00	2
		1	74	21.69	21.72	21.65	22.00	2
		36	0	20.67	20.66	20.67	21.00	3
		36	18	20.75	20.67	20.62	21.00	3
		36	37	20.70	20.65	20.67	21.00	3
		75	0	20.65	20.70	20.60	21.00	3

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LTE Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1715	1732.5	1750			
Channel				20000	20175	20350			
10	QPSK	1	0	23.74	23.58	23.66	24.00	0	
		1	25	23.74	23.62	23.75	24.00	0	
		1	49	23.62	23.58	23.68	24.00	0	
		25	0	22.66	22.75	22.59	23.00	1	
		25	12	22.70	22.71	22.74	23.00	1	
		25	25	22.74	22.58	22.73	23.00	1	
	16-QAM	50	0	22.60	22.57	22.57	23.00	1	
		1	0	22.68	22.69	22.59	23.00	1	
		1	25	22.68	22.76	22.74	23.00	1	
		1	49	22.58	22.73	22.62	23.00	1	
		25	0	21.73	21.58	21.63	22.00	2	
		25	12	21.57	21.56	21.61	22.00	2	
	64-QAM	25	25	21.69	21.65	21.64	22.00	2	
		50	0	21.71	21.56	21.62	22.00	2	
		1	0	21.56	21.64	21.65	22.00	2	
		1	25	21.75	21.66	21.60	22.00	2	
		1	49	21.65	21.58	21.68	22.00	2	
		25	0	20.74	20.65	20.59	21.00	3	
	Frequency (MHz)				1712.5	1732.5	1752.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				19975	20175	20375		
	5	QPSK	1	0	23.62	23.62	23.69	24.00	0
1			12	23.60	23.63	23.74	24.00	0	
1			24	23.59	23.70	23.67	24.00	0	
12			0	22.58	22.64	22.64	23.00	1	
12			6	22.73	22.70	22.62	23.00	1	
12			13	22.69	22.56	22.60	23.00	1	
16-QAM		25	0	22.67	22.56	22.75	23.00	1	
		1	0	22.59	22.67	22.61	23.00	1	
		1	12	22.70	22.72	22.67	23.00	1	
		1	24	22.63	22.75	22.56	23.00	1	
		12	0	21.65	21.64	21.58	22.00	2	
		12	6	21.65	21.67	21.66	22.00	2	
64-QAM		12	13	21.71	21.69	21.65	22.00	2	
		25	0	21.67	21.70	21.63	22.00	2	
		1	0	21.57	21.71	21.62	22.00	2	
		1	12	21.71	21.57	21.61	22.00	2	
		1	24	21.62	21.75	21.69	22.00	2	
		12	0	20.58	20.76	20.63	21.00	3	
Frequency (MHz)				1712.5	1732.5	1752.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				19975	20175	20375			
5		QPSK	12	6	20.62	20.62	20.56	21.00	3
	12		13	20.74	20.68	20.66	21.00	3	
	25		0	20.64	20.73	20.65	21.00	3	
	25		0	20.64	20.73	20.65	21.00	3	

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LTE Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1711.5	1732.5	1753.5			
Channel			19965	20175	20385			
3	QPSK	1	0	23.70	23.73	23.67	24.00	0
		1	7	23.73	23.62	23.67	24.00	0
		1	14	23.68	23.60	23.63	24.00	0
		8	0	22.76	22.59	22.66	23.00	1
		8	4	22.76	22.63	22.68	23.00	1
		8	7	22.72	22.59	22.72	23.00	1
	16-QAM	15	0	22.72	22.63	22.73	23.00	1
		1	0	22.58	22.67	22.75	23.00	1
		1	7	22.73	22.76	22.75	23.00	1
		1	14	22.68	22.59	22.59	23.00	1
		8	0	21.74	21.68	21.72	22.00	2
		8	4	21.59	21.63	21.63	22.00	2
	64-QAM	8	7	21.69	21.65	21.70	22.00	2
		15	0	21.61	21.70	21.70	22.00	2
		1	0	21.71	21.62	21.64	22.00	2
		1	7	21.75	21.58	21.74	22.00	2
		1	14	21.60	21.67	21.64	22.00	2
		8	0	20.74	20.57	20.68	21.00	3
		8	4	20.74	20.65	20.59	21.00	3
		8	7	20.71	20.64	20.71	21.00	3
		15	0	20.57	20.71	20.67	21.00	3
Frequency (MHz)			1710.7	1732.5	1754.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			19957	20175	20393			
1.4	QPSK	1	0	23.62	23.66	23.63	24.00	0
		1	2	23.60	23.73	23.68	24.00	0
		1	5	23.65	23.57	23.63	24.00	0
		3	0	23.71	23.68	23.59	24.00	0
		3	2	23.72	23.74	23.67	24.00	0
		3	3	23.69	23.56	23.64	24.00	0
	16-QAM	6	0	22.58	22.62	22.66	23.00	1
		1	0	22.68	22.64	22.72	23.00	1
		1	2	22.64	22.58	22.67	23.00	1
		1	5	22.58	22.72	22.70	23.00	1
		3	0	22.64	22.74	22.70	23.00	1
		3	2	22.58	22.63	22.67	23.00	1
	64-QAM	3	3	22.58	22.68	22.72	23.00	1
		6	0	21.64	21.72	21.65	22.00	2
		1	0	21.74	21.62	21.66	22.00	2
		1	2	21.58	21.71	21.68	22.00	2
		1	5	21.56	21.59	21.56	22.00	2
		3	0	21.69	21.63	21.57	22.00	2
		3	2	21.61	21.59	21.66	22.00	2
		3	3	21.75	21.68	21.63	22.00	2
		6	0	20.64	20.57	20.58	21.00	3

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LTE Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			829	836.5	844			
Channel			20450	20525	20600			
10	QPSK	1	0	23.98	24.04	24.02	25.00	0
		1	25	23.85	23.95	23.80	25.00	0
		1	49	23.96	23.95	23.95	25.00	0
		25	0	22.91	22.88	22.97	24.00	1
		25	12	22.89	22.93	22.81	24.00	1
		25	25	22.96	22.85	22.96	24.00	1
	16-QAM	50	0	22.92	22.83	22.83	24.00	1
		1	0	22.80	22.84	22.93	24.00	1
		1	25	22.97	22.96	22.88	24.00	1
		1	49	22.83	22.95	22.85	24.00	1
		25	0	21.83	21.90	21.90	23.00	2
		25	12	21.81	21.83	21.89	23.00	2
	64-QAM	25	25	21.93	21.81	21.82	23.00	2
		50	0	21.88	21.82	21.78	23.00	2
		1	0	21.81	21.89	21.82	23.00	2
		1	25	21.93	21.95	21.88	23.00	2
		1	49	21.93	21.84	21.83	23.00	2
		25	0	20.95	20.92	20.91	22.00	3
		25	12	20.80	20.90	20.91	22.00	3
		25	25	20.87	20.97	20.93	22.00	3
Frequency (MHz)			826.5	836.5	846.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20425	20525	20625			
5	QPSK	1	0	23.80	23.96	23.97	25.00	0
		1	12	23.97	23.80	23.80	25.00	0
		1	24	23.91	23.85	23.95	25.00	0
		12	0	22.85	22.84	22.83	24.00	1
		12	6	22.93	22.94	22.81	24.00	1
		12	13	22.84	22.90	22.95	24.00	1
	16-QAM	25	0	22.96	22.97	22.84	24.00	1
		1	0	22.98	22.80	22.96	24.00	1
		1	12	22.95	22.87	22.90	24.00	1
		1	24	22.88	22.80	22.97	24.00	1
		12	0	21.90	21.83	21.78	23.00	2
		12	6	21.95	21.80	21.96	23.00	2
	64-QAM	12	13	21.82	21.93	21.87	23.00	2
		25	0	21.78	21.90	21.89	23.00	2
		1	0	21.87	21.90	21.96	23.00	2
		1	12	21.88	21.86	21.89	23.00	2
		1	24	21.88	21.92	21.82	23.00	2
		12	0	20.94	20.80	20.90	22.00	3
		12	6	20.95	20.80	20.80	22.00	3
		12	13	20.93	20.80	20.97	22.00	3
25	0	20.95	20.79	20.95	22.00	3		

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LTE Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				825.5	836.5	847.5			
Channel				20415	20525	20635			
3	QPSK	1	0	23.89	23.79	23.81	25.00	0	
		1	7	23.96	23.90	23.79	25.00	0	
		1	14	23.91	23.97	23.85	25.00	0	
		8	0	22.87	22.82	22.95	24.00	1	
		8	4	22.84	22.96	22.92	24.00	1	
		8	7	22.81	22.92	22.83	24.00	1	
	16-QAM	15	0	22.94	22.81	22.84	24.00	1	
		1	0	22.94	22.83	22.88	24.00	1	
		1	7	22.89	22.80	22.79	24.00	1	
		1	14	22.84	22.88	22.81	24.00	1	
		8	0	21.95	21.96	21.92	23.00	2	
		8	4	21.91	21.82	21.85	23.00	2	
	64-QAM	8	7	21.93	21.79	21.83	23.00	2	
		15	0	21.97	21.95	21.86	23.00	2	
		1	0	21.91	21.83	21.83	23.00	2	
		1	7	21.91	21.84	21.97	23.00	2	
		1	14	21.97	21.81	21.96	23.00	2	
		8	0	20.92	20.91	20.88	22.00	3	
	Frequency (MHz)				824.7	836.5	848.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				20407	20525	20643		
	1.4	QPSK	8	7	20.80	20.97	20.93		
15			0	20.79	20.92	20.94	22.00	3	
1			0	23.74	23.94	23.82	25.00	0	
1			2	23.91	23.85	23.92	25.00	0	
1			5	23.86	23.86	23.92	25.00	0	
3			0	23.82	23.87	23.78	25.00	0	
16-QAM		3	2	23.74	23.90	23.74	25.00	0	
		3	3	23.76	23.80	23.83	25.00	0	
		6	0	22.91	22.84	22.85	24.00	1	
		1	0	22.88	22.92	22.90	24.00	1	
		1	2	22.87	22.91	22.89	24.00	1	
		1	5	22.77	22.86	22.91	24.00	1	
64-QAM		3	0	22.87	22.86	22.78	24.00	1	
		3	2	22.82	22.89	22.86	24.00	1	
		3	3	22.91	22.83	22.80	24.00	1	
		6	0	21.78	21.89	21.79	23.00	2	
		1	0	21.88	21.84	21.76	23.00	2	
		1	2	21.91	21.94	21.78	23.00	2	
64-QAM	1	5	21.82	21.83	21.88	23.00	2		
	3	0	21.88	21.84	21.80	23.00	2		
	3	2	21.85	21.83	21.92	23.00	2		
	3	3	21.75	21.81	21.75	23.00	2		
	6	0	20.82	20.90	20.90	22.00	3		

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LTE Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2510	2535	2560			
Channel			20850	21100	21350			
20	QPSK	1	0	21.09	21.07	21.16	21.90	0
		1	50	21.03	21.06	20.97	21.90	0
		1	99	20.96	21.03	21.06	21.90	0
		50	0	19.88	20.03	19.96	20.90	1
		50	25	19.88	19.94	19.94	20.90	1
		50	50	19.91	19.89	19.93	20.90	1
	100	0	19.97	19.89	20.00	20.90	1	
	16-QAM	1	0	20.05	19.90	19.91	20.90	1
		1	50	19.96	19.98	19.99	20.90	1
		1	99	19.96	20.04	20.03	20.90	1
		50	0	19.04	19.05	19.01	19.90	2
		50	25	19.05	19.00	19.01	19.90	2
		50	50	19.02	18.96	18.97	19.90	2
	64-QAM	100	0	18.95	18.89	19.07	19.90	2
		1	0	18.90	18.91	18.94	19.90	2
		1	50	18.95	18.98	18.88	19.90	2
		1	99	19.01	19.04	18.88	19.90	2
		50	0	17.89	17.92	18.05	18.90	3
		50	25	18.04	18.05	18.03	18.90	3
	50	50	17.93	17.98	18.01	18.90	3	
	100	0	18.05	17.96	17.98	18.90	3	
Frequency (MHz)			2507.5	2535	2562.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20825	21100	21375			
15	QPSK	1	0	20.90	20.91	20.93	21.90	0
		1	36	20.99	20.98	20.89	21.90	0
		1	74	21.05	20.87	21.06	21.90	0
		36	0	20.06	19.91	20.03	20.90	1
		36	18	19.97	19.88	20.01	20.90	1
		36	37	19.94	19.93	19.92	20.90	1
		75	0	19.97	19.87	20.05	20.90	1
	16-QAM	1	0	20.05	20.06	19.87	20.90	1
		1	36	20.02	19.93	19.93	20.90	1
		1	74	20.03	20.00	19.89	20.90	1
		36	0	18.95	18.96	18.98	19.90	2
		36	18	18.91	19.04	19.01	19.90	2
		36	37	19.01	19.07	18.95	19.90	2
		75	0	18.88	19.02	19.01	19.90	2
	64-QAM	1	0	18.99	19.00	18.90	19.90	2
		1	36	18.96	19.00	19.06	19.90	2
		1	74	18.95	18.93	19.04	19.90	2
		36	0	18.00	17.92	17.90	18.90	3
		36	18	17.95	17.91	17.96	18.90	3
		36	37	17.92	17.87	18.01	18.90	3
		75	0	18.02	17.94	17.99	18.90	3

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LTE Band 7										
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Frequency (MHz)				2505	2535	2565				
Channel				20800	21100	21400				
10	QPSK	1	0	21.04	20.89	20.94	21.90	0		
		1	25	20.92	20.99	20.96	21.90	0		
		1	49	20.91	20.95	20.96	21.90	0		
		25	0	19.94	19.89	19.94	20.90	1		
		25	12	19.90	19.93	19.98	20.90	1		
		25	25	19.93	19.96	19.89	20.90	1		
	16-QAM	50	0	19.88	20.05	20.01	20.90	1		
		1	0	19.87	20.02	19.90	20.90	1		
		1	25	19.99	19.94	19.89	20.90	1		
		1	49	19.95	20.05	20.05	20.90	1		
		25	0	18.88	19.00	18.88	19.90	2		
		25	12	19.06	18.96	18.93	19.90	2		
	64-QAM	25	25	19.04	19.00	19.01	19.90	2		
		50	0	18.96	18.97	19.06	19.90	2		
		1	0	18.98	18.95	18.93	19.90	2		
		1	25	19.04	18.90	18.98	19.90	2		
		1	49	19.02	18.88	19.02	19.90	2		
		25	0	17.95	18.06	17.91	18.90	3		
	5	QPSK	25	12	18.05	18.03	17.88	18.90	3	
			25	25	17.93	17.90	18.04	18.90	3	
50			0	18.03	18.05	17.96	18.90	3		
Frequency (MHz)				2502.5	2535	2567.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel				20775	21100	21425				
5			QPSK	1	0	20.90			21.07	21.01
		1		12	20.89	20.89	20.97	21.90	0	
		1		24	20.95	20.93	20.97	21.90	0	
		12		0	20.04	19.98	20.02	20.90	1	
		12		6	20.00	19.98	20.04	20.90	1	
		12		13	20.00	19.88	19.90	20.90	1	
		16-QAM	25	0	19.90	19.88	19.90	20.90	1	
			1	0	19.91	20.04	20.07	20.90	1	
			1	12	19.90	19.88	20.06	20.90	1	
			1	24	19.98	19.97	20.00	20.90	1	
			12	0	18.95	19.06	19.00	19.90	2	
			12	6	19.06	18.93	19.02	19.90	2	
		64-QAM	12	13	19.05	19.02	19.07	19.90	2	
			25	0	18.96	18.96	18.99	19.90	2	
1			0	19.00	19.01	19.03	19.90	2		
1	12		19.00	18.93	19.01	19.90	2			
1	24		18.95	19.05	18.89	19.90	2			
12	0		17.94	18.05	18.03	18.90	3			
Frequency (MHz)				2502.5	2535	2567.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel				20775	21100	21425				
5	QPSK	12	6	17.94	17.89	18.03			18.90	3
		12	13	18.00	18.00	18.00	18.90	3		
		25	0	18.06	18.06	17.93	18.90	3		

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LTE Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			704	707.5	711			
Channel			23060	23095	23130			
10	QPSK	1	0	24.03	24.10	24.17	25.00	0
		1	25	24.02	23.94	23.89	25.00	0
		1	49	23.93	24.00	23.87	25.00	0
		25	0	22.98	22.93	23.00	24.00	1
		25	12	22.85	22.96	22.85	24.00	1
		25	25	22.90	22.91	22.91	24.00	1
	16-QAM	50	0	22.97	22.89	22.93	24.00	1
		1	0	22.84	22.92	22.96	24.00	1
		1	25	22.92	22.98	22.93	24.00	1
		1	49	22.87	22.83	22.89	24.00	1
		25	0	22.00	21.91	21.98	23.00	2
		25	12	21.83	21.97	21.89	23.00	2
	64-QAM	25	25	21.87	21.93	21.85	23.00	2
		50	0	22.03	21.97	21.88	23.00	2
		1	0	21.93	22.01	22.01	23.00	2
		1	25	21.99	21.93	21.90	23.00	2
		1	49	21.86	21.84	22.00	23.00	2
		25	0	20.94	20.89	20.92	22.00	3
	Frequency (MHz)			701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			23035	23095	23155		
	5	QPSK	1	0	23.98	23.96	23.84	25.00
1			12	24.00	23.98	23.91	25.00	0
1			24	23.90	23.94	23.89	25.00	0
12			0	22.95	22.91	22.99	24.00	1
12			6	22.86	22.97	22.92	24.00	1
12			13	22.88	22.97	22.96	24.00	1
16-QAM		25	0	22.95	23.02	22.83	24.00	1
		1	0	22.92	22.96	23.02	24.00	1
		1	12	22.91	22.90	22.85	24.00	1
		1	24	22.86	22.97	23.01	24.00	1
		12	0	21.94	21.83	21.89	23.00	2
		12	6	21.96	21.94	21.97	23.00	2
64-QAM		12	13	21.92	21.93	22.03	23.00	2
		25	0	22.03	22.00	21.86	23.00	2
		1	0	22.01	21.92	22.02	23.00	2
		1	12	21.84	21.90	21.95	23.00	2
		1	24	21.89	21.95	22.00	23.00	2
		12	0	20.93	21.01	20.95	22.00	3
Frequency (MHz)			701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23035	23095	23155			
5		QPSK	12	6	20.93	20.99	21.00	22.00
	12		13	20.92	20.93	20.90	22.00	3
	25		0	21.02	20.95	20.87	22.00	3
	25		0	21.02	20.95	20.87	22.00	3

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LTE Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			700.5	707.5	714.5				
Channel			23025	23095	23165				
3	QPSK	1	0	23.94	23.86	23.90	25.00	0	
		1	7	23.92	24.03	23.91	25.00	0	
		1	14	23.91	23.87	23.87	25.00	0	
		8	0	22.89	23.02	22.97	24.00	1	
		8	4	22.92	22.98	22.89	24.00	1	
		8	7	22.94	22.94	22.90	24.00	1	
	16-QAM	15	0	22.97	23.03	22.86	24.00	1	
		1	0	22.83	22.86	22.86	24.00	1	
		1	7	23.03	22.99	22.98	24.00	1	
		1	14	22.95	22.98	22.85	24.00	1	
		8	0	21.95	21.89	21.93	23.00	2	
		8	4	21.95	22.02	21.84	23.00	2	
	64-QAM	8	7	21.85	21.96	21.85	23.00	2	
		15	0	22.00	21.98	21.91	23.00	2	
		1	0	21.99	22.01	21.85	23.00	2	
		1	7	22.00	21.90	21.94	23.00	2	
		1	14	21.97	21.91	21.87	23.00	2	
		8	0	20.93	20.89	20.94	22.00	3	
	1.4	QPSK	8	4	20.90	20.84	20.92	22.00	3
			8	7	20.90	20.85	21.03	22.00	3
			15	0	20.83	20.88	20.94	22.00	3
Frequency (MHz)			699.7	707.5	715.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			23017	23095	23173				
1.4			QPSK	1	0	23.89	23.99	23.85	25.00
		1		2	23.91	23.88	23.86	25.00	0
		1		5	23.83	23.95	23.84	25.00	0
		3		0	23.98	24.01	23.84	25.00	0
	3	2		23.94	23.91	23.89	25.00	0	
	3	3		23.91	23.92	23.90	25.00	0	
	16-QAM	6	0	22.98	22.93	22.89	24.00	1	
		1	0	22.85	22.93	22.89	24.00	1	
		1	2	22.84	22.90	22.93	24.00	1	
		1	5	22.86	22.85	22.96	24.00	1	
		3	0	22.92	22.94	22.99	24.00	1	
		3	2	22.87	22.97	22.96	24.00	1	
	64-QAM	3	3	22.84	23.02	22.98	24.00	1	
		6	0	21.94	21.94	21.86	23.00	2	
		1	0	21.90	21.94	21.90	23.00	2	
		1	2	21.91	21.83	21.90	23.00	2	
		1	5	21.89	21.92	21.83	23.00	2	
		3	0	21.92	21.83	21.95	23.00	2	
1.4	64-QAM	3	2	21.94	21.87	22.02	23.00	2	
		3	3	21.94	21.89	21.96	23.00	2	
		6	0	21.00	20.89	20.95	22.00	3	

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LTE Band 13								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			782	782	782			
Channel			23230	23230	23230			
10	QPSK	1	0	24.29			25.00	0
		1	25	24.21			25.00	0
		1	49	24.10			25.00	0
		25	0	23.24			24.00	1
		25	12	23.21			24.00	1
		25	25	23.20			24.00	1
	16-QAM	50	0	23.19			24.00	1
		1	0	23.18			24.00	1
		1	25	23.22			24.00	1
		1	49	23.13			24.00	1
		25	0	22.20			23.00	2
		25	12	22.10			23.00	2
	64-QAM	25	25	22.13			23.00	2
		50	0	22.16			23.00	2
		1	0	22.25			23.00	2
		1	25	22.16			23.00	2
		1	49	22.27			23.00	2
		25	0	21.09			22.00	3
	Frequency (MHz)			779.5	782	784.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			23205	23230	23255		
5	QPSK	1	0	24.23	24.28	24.13	25.00	0
		1	12	24.16	24.12	24.20	25.00	0
		1	24	24.22	24.12	24.12	25.00	0
		12	0	23.12	23.09	23.21	24.00	1
		12	6	23.11	23.18	23.18	24.00	1
		12	13	23.18	23.21	23.14	24.00	1
	16-QAM	25	0	23.12	23.08	23.25	24.00	1
		1	0	23.09	23.14	23.26	24.00	1
		1	12	23.15	23.26	23.08	24.00	1
		1	24	23.20	23.24	23.27	24.00	1
		12	0	22.17	22.25	22.26	23.00	2
		12	6	22.21	22.16	22.26	23.00	2
	64-QAM	12	13	22.15	22.13	22.27	23.00	2
		25	0	22.26	22.24	22.15	23.00	2
		1	0	22.22	22.27	22.28	23.00	2
		1	12	22.16	22.25	22.15	23.00	2
		1	24	22.26	22.12	22.26	23.00	2
		12	0	21.27	21.13	21.16	22.00	3
		12	6	21.12	21.23	21.18	22.00	3
		12	13	21.16	21.15	21.18	22.00	3
25	0	21.11	21.28	21.25	22.00	3		

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LTE Band 14								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			793	793	793			
Channel			23330	23330	23330			
10	QPSK	1	0	24.25			25.00	0
		1	25	24.07			25.00	0
		1	49	24.05			25.00	0
		25	0	23.08			24.00	1
		25	12	23.13			24.00	1
		25	25	23.03			24.00	1
	16-QAM	50	0	23.13			24.00	1
		1	0	23.19			24.00	1
		1	25	23.19			24.00	1
		1	49	23.13			24.00	1
		25	0	22.11			23.00	2
		25	12	22.06			23.00	2
	64-QAM	25	25	22.03			23.00	2
		50	0	22.15			23.00	2
		1	0	22.13			23.00	2
		1	25	22.05			23.00	2
		1	49	22.12			23.00	2
		25	0	21.04			22.00	3
Frequency (MHz)			790.5	793	795.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23305	23330	23355			
5	QPSK	1	0	24.03	24.10	24.12	25.00	0
		1	12	24.04	24.09	24.12	25.00	0
		1	24	24.13	24.07	24.10	25.00	0
		12	0	23.20	23.03	23.11	24.00	1
		12	6	23.18	23.10	23.17	24.00	1
		12	13	23.14	23.09	23.19	24.00	1
	16-QAM	25	0	23.15	23.08	23.15	24.00	1
		1	0	23.17	23.13	23.06	24.00	1
		1	12	23.15	23.02	23.04	24.00	1
		1	24	23.03	23.16	23.05	24.00	1
		12	0	22.01	22.14	22.17	23.00	2
		12	6	22.04	22.19	22.19	23.00	2
	64-QAM	12	13	22.04	22.19	22.11	23.00	2
		25	0	22.19	22.12	22.09	23.00	2
		1	0	22.05	22.05	22.09	23.00	2
		1	12	22.06	22.18	22.18	23.00	2
		1	24	22.03	22.11	22.09	23.00	2
		12	0	21.14	21.09	21.12	22.00	3
Frequency (MHz)			790.5	793	795.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23305	23330	23355			
5	QPSK	12	6	21.09	21.00	21.15	22.00	3
		12	13	21.13	21.03	21.01	22.00	3
		25	0	21.19	21.13	21.16	22.00	3

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LTE Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1860	1882.5	1905				
Channel			26140	26365	26590				
20	QPSK	1	0	24.28	24.22	24.19	25.00	0	
		1	50	24.11	24.00	24.09	25.00	0	
		1	99	24.16	24.14	24.08	25.00	0	
		50	0	23.18	23.00	23.12	24.00	1	
		50	25	23.08	23.08	23.01	24.00	1	
		50	50	23.07	23.14	23.15	24.00	1	
	16-QAM	100	0	23.08	23.04	23.06	24.00	1	
		1	0	23.11	23.17	23.12	24.00	1	
		1	50	23.15	23.14	23.13	24.00	1	
		1	99	23.16	23.16	23.10	24.00	1	
		50	0	22.05	22.15	21.99	23.00	2	
		50	25	22.14	22.16	22.08	23.00	2	
	64-QAM	50	50	22.03	22.16	22.06	23.00	2	
		100	0	22.05	22.19	22.13	23.00	2	
		1	0	22.18	22.08	22.10	23.00	2	
		1	50	22.04	22.17	22.17	23.00	2	
		1	99	22.12	22.13	22.13	23.00	2	
		50	0	21.13	21.17	21.07	22.00	3	
			50	25	21.18	21.16	21.08	22.00	3
			50	50	21.17	21.14	21.14	22.00	3
			100	0	21.02	21.18	21.18	22.00	3
BW(Mhz)		Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1857.5	1882.5	1907.5				
Channel			26115	26365	26615				
15	QPSK	1	0	24.05	24.17	24.10	25.00	0	
		1	36	24.07	24.02	24.09	25.00	0	
		1	74	24.09	23.99	24.14	25.00	0	
		36	0	23.15	23.07	23.00	24.00	1	
		36	18	23.19	23.19	23.12	24.00	1	
		36	37	23.09	22.99	23.05	24.00	1	
	16-QAM	75	0	22.99	23.10	23.03	24.00	1	
		1	0	22.99	23.03	23.04	24.00	1	
		1	36	23.18	23.05	23.12	24.00	1	
		1	74	23.04	23.13	23.19	24.00	1	
		36	0	22.04	22.16	22.14	23.00	2	
		36	18	22.06	22.07	22.13	23.00	2	
	64-QAM	36	37	22.01	22.12	22.04	23.00	2	
		75	0	22.17	22.07	22.00	23.00	2	
		1	0	22.17	22.10	22.00	23.00	2	
		1	36	22.05	22.01	22.05	23.00	2	
		1	74	22.11	22.02	22.09	23.00	2	
		36	0	21.01	21.16	21.09	22.00	3	
			36	18	21.06	21.15	21.05	22.00	3
			36	37	21.03	21.13	21.18	22.00	3
			75	0	21.01	21.04	21.08	22.00	3

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LTE Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1882.5	1910			
Channel			26090	26365	26640			
10	QPSK	1	0	24.15	24.19	24.17	25.00	0
		1	25	24.12	24.07	24.18	25.00	0
		1	49	24.08	24.14	24.15	25.00	0
		25	0	23.04	23.06	23.08	24.00	1
		25	12	23.05	23.03	23.03	24.00	1
		25	25	23.09	23.05	23.00	24.00	1
	16-QAM	50	0	23.19	23.03	23.15	24.00	1
		1	0	23.13	23.07	23.18	24.00	1
		1	25	23.12	23.16	23.06	24.00	1
		1	49	23.11	23.17	23.10	24.00	1
		25	0	22.09	22.13	22.01	23.00	2
		25	12	22.06	22.08	22.18	23.00	2
	64-QAM	25	25	22.14	22.06	22.07	23.00	2
		50	0	22.01	22.16	22.10	23.00	2
		1	0	21.99	22.09	22.08	23.00	2
		1	25	22.02	22.07	22.13	23.00	2
		1	49	22.06	22.17	22.03	23.00	2
		25	0	21.03	21.13	21.13	22.00	3
	Frequency (MHz)			1852.5	1882.5	1912.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			26065	26365	26665		
	5	QPSK	1	0	24.07	24.01	24.07	25.00
1			12	24.11	24.06	24.16	25.00	0
1			24	24.19	24.17	24.06	25.00	0
12			0	23.19	23.00	23.10	24.00	1
12			6	23.02	23.18	23.17	24.00	1
12			13	23.19	23.19	23.03	24.00	1
16-QAM		25	0	23.10	23.01	23.16	24.00	1
		1	0	23.13	23.01	23.00	24.00	1
		1	12	23.15	23.05	23.06	24.00	1
		1	24	23.06	23.00	23.11	24.00	1
		12	0	22.14	22.14	22.07	23.00	2
		12	6	22.04	22.11	22.17	23.00	2
64-QAM		12	13	22.12	22.17	22.09	23.00	2
		25	0	22.00	22.13	22.01	23.00	2
		1	0	22.01	22.00	22.16	23.00	2
		1	12	22.04	22.11	22.09	23.00	2
		1	24	22.14	22.08	22.01	23.00	2
		12	0	21.17	21.14	21.13	22.00	3
Frequency (MHz)			1852.5	1882.5	1912.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26065	26365	26665			
5		QPSK	12	6	22.04	22.11	22.17	23.00
	12		13	22.12	22.17	22.09	23.00	2
	25		0	22.00	22.13	22.01	23.00	2
	1		0	22.01	22.00	22.16	23.00	2
	1		12	22.04	22.11	22.09	23.00	2
	1		24	22.14	22.08	22.01	23.00	2
	64-QAM	12	0	21.17	21.14	21.13	22.00	3
		12	6	21.18	21.06	21.12	22.00	3
		12	13	21.04	21.14	21.05	22.00	3
		25	0	21.03	21.06	21.11	22.00	3

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LTE Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1851.5	1882.5	1913.5				
Channel			26055	26365	26675				
3	QPSK	1	0	24.11	24.08	24.07	25.00	0	
		1	7	24.05	24.13	24.09	25.00	0	
		1	14	24.06	24.09	24.08	25.00	0	
		8	0	23.02	23.11	23.07	24.00	1	
		8	4	23.06	23.09	22.99	24.00	1	
		8	7	23.06	23.16	23.00	24.00	1	
	16-QAM	15	0	23.18	23.12	23.13	24.00	1	
		1	0	23.09	23.09	23.08	24.00	1	
		1	7	23.02	23.16	23.15	24.00	1	
		1	14	23.16	23.05	23.01	24.00	1	
		8	0	22.05	22.00	22.18	23.00	2	
		8	4	22.04	22.09	22.08	23.00	2	
	64-QAM	8	7	22.17	22.07	21.99	23.00	2	
		15	0	22.04	21.99	22.11	23.00	2	
		1	0	22.07	22.10	22.08	23.00	2	
		1	7	22.18	22.17	22.18	23.00	2	
		1	14	22.15	22.15	22.18	23.00	2	
		8	0	21.19	21.10	21.15	22.00	3	
	1.4	QPSK	8	4	21.17	21.14	21.13	22.00	3
			8	7	21.13	21.10	21.14	22.00	3
			15	0	21.16	21.12	21.04	22.00	3
Frequency (MHz)			1850.7	1880	1909.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			18607	18900	19193				
1.4			QPSK	1	0			24.18	24.01
		1		2	24.16	24.13	24.10	25.00	0
		1		5	24.17	24.12	24.18	25.00	0
		3		0	24.17	24.00	24.13	25.00	0
		3		2	24.16	24.05	24.08	25.00	0
		3		3	24.18	24.13	24.07	25.00	0
		16-QAM	6	0	23.05	23.11	23.11	24.00	1
			1	0	23.19	23.17	23.15	24.00	1
			1	2	23.01	23.15	23.15	24.00	1
			1	5	23.02	23.06	23.15	24.00	1
			3	0	23.14	23.12	23.03	24.00	1
			3	2	23.08	23.18	23.01	24.00	1
		64-QAM	3	3	23.13	23.02	23.09	24.00	1
			6	0	22.04	22.00	22.01	23.00	2
			1	0	22.02	22.12	22.01	23.00	2
			1	2	22.02	22.06	22.00	23.00	2
	1		5	22.02	22.04	22.03	23.00	2	
	3		0	22.02	22.17	22.15	23.00	2	
1.4	64-QAM	3	2	22.15	22.08	22.07	23.00	2	
		3	3	22.07	22.02	22.11	23.00	2	
		6	0	21.03	21.11	21.01	22.00	3	

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LTE Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			821.5	831.5	841.5				
Channel			26765	26865	26965				
15	QPSK	1	0	23.96	23.98	24.03	25.00	0	
		1	36	23.95	23.92	23.77	25.00	0	
		1	74	23.91	23.90	23.95	25.00	0	
		36	0	22.93	22.77	22.94	24.00	1	
		36	18	22.88	22.93	22.84	24.00	1	
		36	37	22.86	22.79	22.86	24.00	1	
	16-QAM	75	0	22.87	22.84	22.92	24.00	1	
		1	0	22.96	22.77	22.89	24.00	1	
		1	36	22.85	22.88	22.89	24.00	1	
		1	74	22.77	22.85	22.80	24.00	1	
		36	0	21.77	21.78	21.94	23.00	2	
		36	18	21.84	21.95	21.86	23.00	2	
	64-QAM	36	37	21.81	21.89	21.82	23.00	2	
		75	0	21.81	21.80	21.77	23.00	2	
		1	0	21.95	21.87	21.79	23.00	2	
		1	36	21.82	21.94	21.76	23.00	2	
		1	74	21.79	21.77	21.94	23.00	2	
		36	0	20.87	20.85	20.94	22.00	3	
	10	QPSK	36	18	20.93	20.94	20.94	22.00	3
			36	37	20.95	20.87	20.81	22.00	3
			75	0	20.87	20.90	20.87	22.00	3
Frequency (MHz)			819	831.5	844	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			26740	26865	26990				
10			QPSK	1	0			23.93	23.79
		1		25	23.94	23.82	23.78	25.00	0
		1		49	23.96	23.82	23.84	25.00	0
		25		0	22.82	22.91	22.84	24.00	1
		25		12	22.82	22.81	22.86	24.00	1
		25		25	22.93	22.79	22.84	24.00	1
		16-QAM	50	0	22.76	22.90	22.77	24.00	1
			1	0	22.95	22.89	22.83	24.00	1
			1	25	22.81	22.92	22.79	24.00	1
			1	49	22.95	22.95	22.83	24.00	1
			25	0	21.87	21.77	21.84	23.00	2
			25	12	21.82	21.95	21.93	23.00	2
		64-QAM	25	25	21.91	21.91	21.95	23.00	2
			50	0	21.93	21.81	21.88	23.00	2
			1	0	21.89	21.89	21.83	23.00	2
1			25	21.81	21.96	21.79	23.00	2	
1	49		21.93	21.86	21.84	23.00	2		
25	0		20.93	20.80	20.92	22.00	3		
Frequency (MHz)			819	831.5	844	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			26740	26865	26990				
10	QPSK	25	12	20.90	20.94			20.80	22.00
		25	25	20.92	20.86	20.84	22.00	3	
		50	0	20.95	20.96	20.92	22.00	3	

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LTE Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			816.5	831.5	846.5				
Channel			26715	26865	27015				
5	QPSK	1	0	23.90	23.86	23.91	25.00	0	
		1	12	23.88	23.76	23.88	25.00	0	
		1	24	23.82	23.81	23.83	25.00	0	
		12	0	22.93	22.87	22.79	24.00	1	
		12	6	22.89	22.80	22.84	24.00	1	
		12	13	22.81	22.94	22.78	24.00	1	
	16-QAM	25	0	22.88	22.82	22.82	24.00	1	
		1	0	22.92	22.90	22.84	24.00	1	
		1	12	22.81	22.80	22.89	24.00	1	
		1	24	22.90	22.82	22.88	24.00	1	
		12	0	21.87	21.88	21.94	23.00	2	
		12	6	21.86	21.95	21.87	23.00	2	
	64-QAM	12	13	21.88	21.80	21.92	23.00	2	
		25	0	21.86	21.88	21.92	23.00	2	
		1	0	21.79	21.80	21.94	23.00	2	
		1	12	21.76	21.94	21.94	23.00	2	
		1	24	21.91	21.80	21.84	23.00	2	
		12	0	20.80	20.87	20.81	22.00	3	
	3	QPSK	12	6	20.95	20.86	20.91	22.00	3
			12	13	20.89	20.89	20.79	22.00	3
			25	0	20.77	20.89	20.90	22.00	3
1			0	23.95	23.91	23.80	25.00	0	
1			7	23.78	23.86	23.79	25.00	0	
1			14	23.80	23.85	23.96	25.00	0	
16-QAM		8	0	22.82	22.85	22.81	24.00	1	
		8	4	22.92	22.93	22.88	24.00	1	
		8	7	22.78	22.91	22.77	24.00	1	
		15	0	22.87	22.85	22.91	24.00	1	
		1	0	22.85	22.77	22.96	24.00	1	
		1	7	22.77	22.80	22.90	24.00	1	
64-QAM		1	14	22.77	22.91	22.90	24.00	1	
		8	0	21.78	21.86	21.79	23.00	2	
		8	4	21.84	21.83	21.80	23.00	2	
	8	7	21.95	21.91	21.86	23.00	2		
	15	0	21.77	21.84	21.86	23.00	2		
	1	0	21.82	21.80	21.78	23.00	2		
16-QAM	1	7	21.93	21.81	21.83	23.00	2		
	1	14	21.92	21.81	21.84	23.00	2		
	8	0	20.90	20.94	20.95	22.00	3		
	8	4	20.95	20.93	20.87	22.00	3		
	8	7	20.91	20.91	20.90	22.00	3		
	15	0	20.85	20.94	20.83	22.00	3		

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LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			814.7	831.5	848.3			
Channel			26697	26865	27033			
1.4	QPSK	1	0	23.77	23.87	23.92	25.00	0
		1	2	23.84	23.86	23.79	25.00	0
		1	5	23.85	23.92	23.93	25.00	0
		3	0	23.88	23.89	23.89	25.00	0
		3	2	23.75	23.85	23.75	25.00	0
		3	3	23.76	23.91	23.78	25.00	0
	16-QAM	6	0	22.77	22.81	22.74	24.00	1
		1	0	22.75	22.83	22.77	24.00	1
		1	2	22.93	22.81	22.82	24.00	1
		1	5	22.75	22.82	22.82	24.00	1
		3	0	22.88	22.86	22.87	24.00	1
		3	2	22.91	22.81	22.77	24.00	1
	64-QAM	3	3	22.84	22.79	22.73	24.00	1
		6	0	21.78	21.79	21.90	23.00	2
		1	0	21.86	21.79	21.82	23.00	2
		1	2	21.75	21.74	21.91	23.00	2
		1	5	21.92	21.86	21.83	23.00	2
		3	0	21.86	21.88	21.73	23.00	2
	64-QAM	3	2	21.89	21.81	21.81	23.00	2
		3	3	21.76	21.91	21.86	23.00	2
		6	0	20.89	20.90	20.84	22.00	3

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LTE Band 30								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2310	2310	2310			
Channel			27710	27710	27710			
10	QPSK	1	0	23.37			23.50	0
		1	25	23.10			23.50	0
		1	49	23.23			23.50	0
		25	0	22.28			22.50	1
		25	12	22.18			22.50	1
		25	25	22.20			22.50	1
	16-QAM	50	0	22.18			22.50	1
		1	0	22.19			22.50	1
		1	25	22.26			22.50	1
		1	49	22.13			22.50	1
		25	0	21.23			21.50	2
		25	12	21.20			21.50	2
	64-QAM	25	25	21.11			21.50	2
		50	0	21.17			21.50	2
		1	0	21.19			21.50	2
		1	25	21.29			21.50	2
		1	49	21.21			21.50	2
		25	0	20.19			20.50	3
Frequency (MHz)			2307.5	2310	2312.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			27685	27710	27735			
5	QPSK	1	0	23.26	23.15	23.15	23.50	0
		1	12	23.16	23.23	23.23	23.50	0
		1	24	23.23	23.17	23.29	23.50	0
		12	0	22.28	22.22	22.17	22.50	1
		12	6	22.22	22.16	22.23	22.50	1
		12	13	22.28	22.25	22.19	22.50	1
	16-QAM	25	0	22.28	22.21	22.29	22.50	1
		1	0	22.14	22.28	22.24	22.50	1
		1	12	22.26	22.17	22.17	22.50	1
		1	24	22.19	22.18	22.18	22.50	1
		12	0	21.16	21.11	21.19	21.50	2
		12	6	21.16	21.25	21.18	21.50	2
	64-QAM	12	13	21.24	21.17	21.29	21.50	2
		25	0	21.14	21.20	21.18	21.50	2
		1	0	21.29	21.16	21.20	21.50	2
		1	12	21.19	21.27	21.14	21.50	2
		1	24	21.24	21.22	21.20	21.50	2
		12	0	20.28	20.18	20.16	20.50	3
Frequency (MHz)			2307.5	2310	2312.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			27685	27710	27735			
5	QPSK	12	6	20.23	20.22	20.30	20.50	3
		12	13	20.20	20.15	20.28	20.50	3
		25	0	20.27	20.12	20.25	20.50	3

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LTE Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1720	1745	1770			
Channel			132072	132322	132572			
20	QPSK	1	0	23.81	23.87	23.63	24.00	0
		1	50	23.45	23.53	23.49	24.00	0
		1	99	23.44	23.52	23.47	24.00	0
		50	0	22.56	22.59	22.53	23.00	1
		50	25	22.55	22.53	22.45	23.00	1
		50	50	22.48	22.59	22.53	23.00	1
	16-QAM	100	0	22.59	22.54	22.44	23.00	1
		1	0	22.58	22.53	22.49	23.00	1
		1	50	22.55	22.44	22.53	23.00	1
		1	99	22.55	22.60	22.47	23.00	1
		50	0	21.58	21.52	21.52	22.00	2
		50	25	21.57	21.49	21.45	22.00	2
	64-QAM	50	50	21.47	21.61	21.53	22.00	2
		100	0	21.56	21.59	21.51	22.00	2
		1	0	21.51	21.48	21.47	22.00	2
		1	50	21.46	21.46	21.60	22.00	2
		1	99	21.54	21.47	21.56	22.00	2
		50	0	20.60	20.46	20.46	21.00	3
15	QPSK	50	25	20.59	20.44	20.52	21.00	3
		50	50	20.43	20.51	20.62	21.00	3
		100	0	20.52	20.61	20.61	21.00	3
		1	0	23.57	23.47	23.56	24.00	0
		1	36	23.49	23.44	23.54	24.00	0
		1	74	23.56	23.59	23.51	24.00	0
	16-QAM	36	0	22.53	22.55	22.47	23.00	1
		36	18	22.55	22.51	22.56	23.00	1
		36	37	22.51	22.52	22.58	23.00	1
		75	0	22.47	22.55	22.54	23.00	1
		1	0	22.51	22.58	22.55	23.00	1
		1	36	22.44	22.44	22.49	23.00	1
	64-QAM	1	74	22.47	22.62	22.49	23.00	1
		36	0	21.61	21.56	21.62	22.00	2
		36	18	21.62	21.60	21.45	22.00	2
		36	37	21.54	21.46	21.46	22.00	2
		75	0	21.61	21.48	21.46	22.00	2
		1	0	21.50	21.54	21.47	22.00	2
64-QAM	1	36	21.58	21.43	21.47	22.00	2	
	1	74	21.51	21.57	21.49	22.00	2	
	36	0	20.48	20.49	20.58	21.00	3	
	36	18	20.53	20.56	20.61	21.00	3	
	36	37	20.50	20.62	20.45	21.00	3	
	75	0	20.54	20.48	20.62	21.00	3	

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LTE Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1715	1745	1775			
Channel			132022	132322	132622			
10	QPSK	1	0	23.45	23.51	23.52	24.00	0
		1	25	23.44	23.47	23.44	24.00	0
		1	49	23.44	23.56	23.44	24.00	0
		25	0	22.46	22.51	22.56	23.00	1
		25	12	22.56	22.55	22.59	23.00	1
		25	25	22.50	22.48	22.47	23.00	1
	16-QAM	50	0	22.46	22.51	22.61	23.00	1
		1	0	22.48	22.46	22.56	23.00	1
		1	25	22.45	22.45	22.48	23.00	1
		1	49	22.51	22.63	22.58	23.00	1
		25	0	21.45	21.60	21.44	22.00	2
		25	12	21.53	21.50	21.52	22.00	2
	64-QAM	25	25	21.57	21.46	21.55	22.00	2
		50	0	21.50	21.48	21.50	22.00	2
		1	0	21.47	21.59	21.62	22.00	2
		1	25	21.52	21.56	21.49	22.00	2
		1	49	21.57	21.47	21.56	22.00	2
		25	0	20.47	20.61	20.48	21.00	3
		25	12	20.51	20.55	20.54	21.00	3
		25	25	20.63	20.46	20.49	21.00	3
Frequency (MHz)			1712.5	1745	1777.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			131997	132322	132647			
5	QPSK	1	0	23.56	23.59	23.55	24.00	0
		1	12	23.55	23.56	23.47	24.00	0
		1	24	23.45	23.56	23.44	24.00	0
		12	0	22.52	22.46	22.62	23.00	1
		12	6	22.46	22.48	22.57	23.00	1
		12	13	22.52	22.57	22.43	23.00	1
	16-QAM	25	0	22.61	22.56	22.46	23.00	1
		1	0	22.44	22.63	22.60	23.00	1
		1	12	22.55	22.43	22.54	23.00	1
		1	24	22.44	22.48	22.52	23.00	1
		12	0	21.49	21.52	21.62	22.00	2
		12	6	21.45	21.45	21.46	22.00	2
	64-QAM	12	13	21.61	21.53	21.55	22.00	2
		25	0	21.49	21.55	21.54	22.00	2
		1	0	21.54	21.61	21.58	22.00	2
		1	12	21.44	21.44	21.48	22.00	2
		1	24	21.61	21.44	21.55	22.00	2
		12	0	20.59	20.52	20.56	21.00	3
		12	6	20.60	20.53	20.44	21.00	3
		12	13	20.52	20.45	20.51	21.00	3
25	0	20.50	20.49	20.55	21.00	3		

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LTE Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1711.5	1745	1778.5			
Channel			131987	132322	132657			
3	QPSK	1	0	23.59	23.58	23.59	24.00	0
		1	7	23.50	23.45	23.58	24.00	0
		1	14	23.63	23.43	23.47	24.00	0
		8	0	22.63	22.53	22.45	23.00	1
		8	4	22.60	22.62	22.61	23.00	1
		8	7	22.47	22.63	22.53	23.00	1
	16-QAM	15	0	22.52	22.45	22.54	23.00	1
		1	0	22.61	22.51	22.44	23.00	1
		1	7	22.56	22.51	22.49	23.00	1
		1	14	22.50	22.43	22.50	23.00	1
		8	0	21.45	21.62	21.53	22.00	2
		8	4	21.54	21.55	21.48	22.00	2
	64-QAM	8	7	21.61	21.60	21.57	22.00	2
		15	0	21.60	21.45	21.50	22.00	2
		1	0	21.46	21.48	21.48	22.00	2
		1	7	21.59	21.44	21.44	22.00	2
		1	14	21.59	21.58	21.63	22.00	2
		8	0	20.59	20.46	20.53	21.00	3
	Frequency (MHz)			1710.7	1745	1779.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			131979	132322	132665		
	1.4	QPSK	1	0	23.39	23.43	23.40	24.00
1			2	23.42	23.36	23.51	24.00	0
1			5	23.38	23.43	23.39	24.00	0
3			0	23.47	23.44	23.39	24.00	0
3			2	23.45	23.46	23.39	24.00	0
3			3	23.37	23.51	23.49	24.00	0
16-QAM		6	0	22.34	22.38	22.40	23.00	1
		1	0	22.39	22.51	22.49	23.00	1
		1	2	22.42	22.43	22.49	23.00	1
		1	5	22.39	22.47	22.42	23.00	1
		3	0	22.41	22.52	22.46	23.00	1
		3	2	22.51	22.36	22.44	23.00	1
64-QAM		3	3	22.34	22.43	22.49	23.00	1
		6	0	21.50	21.41	21.37	22.00	2
		1	0	21.35	21.51	21.43	22.00	2
		1	2	21.44	21.47	21.42	22.00	2
		1	5	21.41	21.34	21.35	22.00	2
		3	0	21.36	21.51	21.46	22.00	2
Frequency (MHz)			1710.7	1745	1779.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			131979	132322	132665			
1.4	QPSK	3	2	21.48	21.46	21.49	22.00	2
		3	3	21.36	21.46	21.35	22.00	2
		6	0	20.35	20.52	20.50	21.00	3

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### 1.3.4 Sensor off-LTE TDD

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

LTE Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				2580	2595	2610			
Channel				37850	38000	38150			
20	QPSK	1	0	23.73	23.52	23.63	24.50	0	
		1	50	23.50	23.49	23.39	24.50	0	
		1	99	23.52	23.38	23.32	24.50	0	
		50	0	22.49	22.51	22.38	23.50	1	
		50	25	22.40	22.43	22.44	23.50	1	
		50	50	22.42	22.44	22.34	23.50	1	
	100	0	22.41	22.38	22.46	23.50	1		
	16-QAM	1	0	22.45	22.49	22.34	23.50	1	
		1	50	22.40	22.50	22.35	23.50	1	
		1	99	22.39	22.46	22.47	23.50	1	
		50	0	21.48	21.45	21.39	22.50	2	
		50	25	21.39	21.46	21.35	22.50	2	
		50	50	21.40	21.48	21.38	22.50	2	
	100	0	21.37	21.48	21.46	22.50	2		
	64-QAM	1	0	21.40	21.48	21.40	22.50	2	
		1	50	21.35	21.35	21.48	22.50	2	
		1	99	21.48	21.33	21.38	22.50	2	
		50	0	20.38	20.35	20.47	21.50	3	
		50	25	20.43	20.34	20.41	21.50	3	
		50	50	20.32	20.49	20.37	21.50	3	
	100	0	20.35	20.43	20.42	21.50	3		
	Frequency (MHz)				2577.5	2595	2612.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				37825	38000	38175		
	15	QPSK	1	0	23.37	23.46	23.50	24.50	0
1			36	23.32	23.37	23.45	24.50	0	
1			74	23.40	23.35	23.38	24.50	0	
36			0	22.34	22.48	22.46	23.50	1	
36			18	22.39	22.47	22.33	23.50	1	
36			37	22.36	22.41	22.47	23.50	1	
75		0	22.33	22.33	22.44	23.50	1		
16-QAM		1	0	22.40	22.36	22.39	23.50	1	
		1	36	22.51	22.43	22.38	23.50	1	
		1	74	22.45	22.36	22.50	23.50	1	
		36	0	21.45	21.49	21.46	22.50	2	
		36	18	21.36	21.45	21.46	22.50	2	
		36	37	21.37	21.39	21.39	22.50	2	
75		0	21.43	21.33	21.37	22.50	2		
64-QAM		1	0	21.51	21.48	21.49	22.50	2	
		1	36	21.39	21.39	21.36	22.50	2	
		1	74	21.37	21.36	21.37	22.50	2	
		36	0	20.33	20.37	20.40	21.50	3	
		36	18	20.41	20.39	20.49	21.50	3	
		36	37	20.50	20.38	20.46	21.50	3	
75		0	20.41	20.41	20.38	21.50	3		

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LTE Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			2575	2595	2615				
Channel			37800	38000	38200				
10	QPSK	1	0	23.34	23.40	23.46	24.50	0	
		1	25	23.49	23.52	23.46	24.50	0	
		1	49	23.43	23.35	23.36	24.50	0	
		25	0	22.42	22.32	22.45	23.50	1	
		25	12	22.40	22.47	22.33	23.50	1	
		25	25	22.40	22.33	22.47	23.50	1	
	16-QAM	50	0	22.50	22.46	22.36	23.50	1	
		1	0	22.32	22.42	22.36	23.50	1	
		1	25	22.47	22.49	22.43	23.50	1	
		1	49	22.40	22.40	22.39	23.50	1	
		25	0	21.47	21.37	21.47	22.50	2	
		25	12	21.46	21.42	21.47	22.50	2	
	64-QAM	25	25	21.36	21.50	21.49	22.50	2	
		50	0	21.36	21.42	21.47	22.50	2	
		1	0	21.48	21.38	21.39	22.50	2	
		1	25	21.35	21.43	21.33	22.50	2	
		1	49	21.44	21.47	21.51	22.50	2	
		25	0	20.42	20.48	20.46	21.50	3	
	5	QPSK	25	12	20.41	20.40	20.49	21.50	3
			25	25	20.50	20.41	20.34	21.50	3
			50	0	20.44	20.48	20.40	21.50	3
Frequency (MHz)			2572.5	2595	2617.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			37775	38000	38225				
5			QPSK	1	0			23.36	23.38
		1		12	23.41	23.33	23.44	24.50	0
		1		24	23.49	23.52	23.45	24.50	0
		12		0	22.38	22.49	22.49	23.50	1
		12		6	22.51	22.50	22.45	23.50	1
		12		13	22.39	22.32	22.45	23.50	1
		16-QAM	25	0	22.51	22.43	22.49	23.50	1
			1	0	22.37	22.39	22.51	23.50	1
			1	12	22.44	22.34	22.51	23.50	1
			1	24	22.40	22.43	22.48	23.50	1
			12	0	21.45	21.52	21.37	22.50	2
			12	6	21.35	21.33	21.45	22.50	2
		64-QAM	12	13	21.41	21.48	21.50	22.50	2
			25	0	21.44	21.40	21.38	22.50	2
			1	0	21.37	21.51	21.48	22.50	2
1			12	21.39	21.44	21.39	22.50	2	
1	24		21.40	21.35	21.45	22.50	2		
12	0		20.38	20.33	20.38	21.50	3		
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LTE Band 41											
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
Channel				39750	40185	40620	41055	41490			
20	QPSK	1	0	23.53	23.66	23.63	23.68	23.38	24.50	0	
		1	50	23.23	23.21	23.23	23.24	23.25	24.50	0	
		1	99	23.33	23.34	23.24	23.37	23.32	24.50	0	
		50	0	22.38	22.19	22.30	22.34	22.37	23.50	1	
		50	25	22.38	22.28	22.22	22.29	22.25	23.50	1	
		50	50	22.27	22.35	22.23	22.26	22.18	23.50	1	
	16-QAM	100	0	22.19	22.23	22.24	22.23	22.33	23.50	1	
		1	0	22.24	22.38	22.33	22.36	22.28	23.50	1	
		1	50	22.26	22.35	22.36	22.29	22.32	23.50	1	
		1	99	22.26	22.35	22.22	22.30	22.32	23.50	1	
		50	0	21.33	21.22	21.36	21.36	21.34	22.50	2	
		50	25	21.21	21.19	21.36	21.20	21.38	22.50	2	
	64-QAM	50	50	21.20	21.20	21.23	21.21	21.34	22.50	2	
		100	0	21.25	21.28	21.29	21.30	21.24	22.50	2	
		1	0	21.29	21.25	21.19	21.33	21.23	22.50	2	
		1	50	21.30	21.19	21.31	21.27	21.37	22.50	2	
		1	99	21.22	21.26	21.29	21.20	21.38	22.50	2	
		50	0	20.35	20.34	20.30	20.26	20.24	21.50	3	
	Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				39725	40173	40620	41068	41515		
	15	QPSK	1	0	23.23	23.23	23.24	23.32	23.19	24.50	0
			1	36	23.24	23.23	23.20	23.19	23.23	24.50	0
			1	74	23.23	23.28	23.38	23.27	23.35	24.50	0
			36	0	22.37	22.33	22.26	22.33	22.20	23.50	1
36			18	22.21	22.25	22.22	22.34	22.30	23.50	1	
36			37	22.22	22.27	22.20	22.35	22.29	23.50	1	
16-QAM		75	0	22.33	22.27	22.25	22.18	22.31	23.50	1	
		1	0	22.27	22.35	22.31	22.35	22.23	23.50	1	
		1	36	22.37	22.24	22.28	22.31	22.25	23.50	1	
		1	74	22.33	22.32	22.33	22.33	22.32	23.50	1	
		36	0	21.31	21.32	21.24	21.23	21.29	22.50	2	
		36	18	21.25	21.37	21.29	21.21	21.30	22.50	2	
64-QAM		36	37	21.34	21.32	21.32	21.37	21.24	22.50	2	
		75	0	21.33	21.31	21.22	21.20	21.30	22.50	2	
		1	0	21.36	21.24	21.29	21.22	21.27	22.50	2	
		1	36	21.22	21.22	21.30	21.33	21.23	22.50	2	
		1	74	21.23	21.26	21.27	21.22	21.34	22.50	2	
		36	0	20.30	20.21	20.31	20.34	20.28	21.50	3	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				39725	40173	40620	41068	41515			
15		QPSK	36	18	20.25	20.33	20.24	20.38	20.20	21.50	3
			36	37	20.34	20.24	20.36	20.22	20.28	21.50	3
			36	0	20.29	20.22	20.19	20.38	20.37	21.50	3
			75	0	20.29	20.22	20.19	20.38	20.37	21.50	3

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LTE Band 41											
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				2501	2547	2593	2639	2685			
Channel				39700	40160	40620	41080	41540			
10	QPSK	1	0	23.34	23.27	23.24	23.18	23.38	24.50	0	
		1	25	23.18	23.19	23.31	23.33	23.22	24.50	0	
		1	49	23.22	23.28	23.30	23.35	23.37	24.50	0	
		25	0	22.32	22.24	22.27	22.21	22.22	23.50	1	
		25	12	22.31	22.35	22.33	22.32	22.24	23.50	1	
		25	25	22.23	22.27	22.26	22.20	22.31	23.50	1	
	16-QAM	50	0	22.34	22.25	22.35	22.27	22.37	23.50	1	
		1	0	22.31	22.20	22.36	22.24	22.28	23.50	1	
		1	25	22.25	22.19	22.31	22.26	22.31	23.50	1	
		1	49	22.33	22.25	22.28	22.36	22.28	23.50	1	
		25	0	21.28	21.23	21.34	21.32	21.36	22.50	2	
		25	12	21.35	21.32	21.19	21.27	21.25	22.50	2	
	64-QAM	25	25	21.21	21.36	21.27	21.33	21.34	22.50	2	
		50	0	21.35	21.26	21.37	21.25	21.29	22.50	2	
		1	0	21.29	21.19	21.35	21.25	21.34	22.50	2	
		1	25	21.38	21.30	21.23	21.34	21.35	22.50	2	
		1	49	21.21	21.35	21.35	21.20	21.20	22.50	2	
		25	0	20.32	20.35	20.38	20.19	20.18	21.50	3	
	Frequency (MHz)				2498.5	2547.8	2593	2640.3	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				39675	40148	40620	41093	41565		
	5	QPSK	1	0	23.37	23.23	23.25	23.33	23.34	24.50	0
			1	12	23.32	23.19	23.32	23.35	23.33	24.50	0
			1	24	23.28	23.26	23.22	23.26	23.23	24.50	0
			12	0	22.18	22.31	22.29	22.25	22.24	23.50	1
12			6	22.35	22.35	22.32	22.36	22.32	23.50	1	
12			13	22.30	22.35	22.31	22.22	22.36	23.50	1	
16-QAM		25	0	22.21	22.34	22.26	22.32	22.23	23.50	1	
		1	0	22.27	22.28	22.37	22.33	22.21	23.50	1	
		1	12	22.25	22.32	22.23	22.29	22.19	23.50	1	
		1	24	22.37	22.38	22.31	22.37	22.31	23.50	1	
		12	0	21.26	21.35	21.28	21.38	21.20	22.50	2	
		12	6	21.31	21.34	21.22	21.33	21.30	22.50	2	
64-QAM		12	13	21.28	21.33	21.24	21.18	21.35	22.50	2	
		25	0	21.31	21.21	21.30	21.26	21.27	22.50	2	
		1	0	21.23	21.27	21.23	21.35	21.31	22.50	2	
		1	12	21.33	21.23	21.24	21.33	21.23	22.50	2	
		1	24	21.36	21.19	21.23	21.23	21.33	22.50	2	
		12	0	20.22	20.23	20.37	20.36	20.32	21.50	3	
Frequency (MHz)				2498.5	2547.8	2593	2640.3	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				39675	40148	40620	41093	41565			
5		QPSK	12	6	22.35	22.35	22.32	22.36	22.32	23.50	1
			12	13	22.30	22.35	22.31	22.22	22.36	23.50	1
			25	0	22.21	22.34	22.26	22.32	22.23	23.50	1
			1	0	22.27	22.28	22.37	22.33	22.21	23.50	1
	16-QAM	1	12	22.25	22.32	22.23	22.29	22.19	23.50	1	
		1	24	22.37	22.38	22.31	22.37	22.31	23.50	1	
		12	0	21.26	21.35	21.28	21.38	21.20	22.50	2	
		12	6	21.31	21.34	21.22	21.33	21.30	22.50	2	
	64-QAM	12	13	21.28	21.33	21.24	21.18	21.35	22.50	2	
		25	0	21.31	21.21	21.30	21.26	21.27	22.50	2	
		1	0	21.23	21.27	21.23	21.35	21.31	22.50	2	
		1	12	21.33	21.23	21.24	21.33	21.23	22.50	2	
64-QAM	1	24	21.36	21.19	21.23	21.23	21.33	22.50	2		
	12	0	20.22	20.23	20.37	20.36	20.32	21.50	3		
	12	6	20.33	20.27	20.28	20.38	20.31	21.50	3		
	12	13	20.35	20.30	20.34	20.27	20.21	21.50	3		
Frequency (MHz)				2498.5	2547.8	2593	2640.3	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				39675	40148	40620	41093	41565			
5	QPSK	25	0	20.20	20.24	20.21	20.37	20.22	21.50	3	
		1	0	21.29	21.19	21.35	21.25	21.34	22.50	2	
		1	25	21.38	21.30	21.23	21.34	21.35	22.50	2	
		1	49	21.21	21.35	21.35	21.20	21.20	22.50	2	
	16-QAM	25	0	20.32	20.35	20.38	20.19	20.18	21.50	3	
		25	12	20.36	20.21	20.26	20.19	20.30	21.50	3	
		25	25	20.30	20.21	20.27	20.21	20.23	21.50	3	
		50	0	20.20	20.24	20.21	20.37	20.22	21.50	3	
	Frequency (MHz)				2498.5	2547.8	2593	2640.3	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				39675	40148	40620	41093	41565		

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### 1.3.5 Sensor on-LTE FDD

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

LTE Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1860	1880	1900			
Channel			18700	18900	19100			
20	QPSK	1	0	15.28	15.12	15.37	15.60	0
		1	50	15.07	15.00	14.93	15.60	0
		1	99	14.99	14.96	15.07	15.60	0
		50	0	14.01	14.04	14.04	14.60	1
		50	25	14.04	14.11	14.07	14.60	1
		50	50	14.07	14.01	14.06	14.60	1
		100	0	14.02	13.99	13.94	14.60	1
	16-QAM	1	0	13.99	13.94	14.03	14.60	1
		1	50	13.95	14.04	13.97	14.60	1
		1	99	14.08	14.09	14.11	14.60	1
		50	0	13.09	13.07	13.03	13.60	2
		50	25	13.10	13.06	13.07	13.60	2
		50	50	12.99	13.11	13.08	13.60	2
		100	0	13.01	12.93	13.11	13.60	2
	64-QAM	1	0	13.02	13.08	12.93	13.60	2
		1	50	13.01	13.08	13.00	13.60	2
		1	99	13.00	12.93	13.06	13.60	2
		50	0	11.97	12.07	12.01	12.60	3
		50	25	12.05	11.99	11.98	12.60	3
		50	50	12.09	12.03	12.01	12.60	3
		100	0	12.08	11.97	11.95	12.60	3
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1857.5	1880	1902.5			
Channel			18675	18900	19125			
15	QPSK	1	0	14.94	15.05	14.94	15.60	0
		1	36	14.95	15.04	15.00	15.60	0
		1	74	15.06	15.02	14.94	15.60	0
		36	0	14.05	13.98	13.97	14.60	1
		36	18	13.99	13.98	13.94	14.60	1
		36	37	14.11	13.93	13.93	14.60	1
		75	0	14.06	14.07	14.07	14.60	1
	16-QAM	1	0	14.04	14.09	13.93	14.60	1
		1	36	14.10	14.09	14.04	14.60	1
		1	74	13.95	14.11	13.98	14.60	1
		36	0	13.04	13.02	13.09	13.60	2
		36	18	12.94	12.97	12.92	13.60	2
		36	37	13.07	12.97	12.98	13.60	2
		75	0	13.10	13.10	13.10	13.60	2
	64-QAM	1	0	13.03	13.08	13.07	13.60	2
		1	36	12.99	13.02	13.08	13.60	2
		1	74	12.93	13.02	13.03	13.60	2
		36	0	12.08	12.06	11.98	12.60	3
		36	18	12.02	12.08	12.08	12.60	3
		36	37	12.02	12.01	11.94	12.60	3
		75	0	12.04	12.10	11.95	12.60	3

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LTE Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1880	1905			
Channel			18650	18900	19150			
10	QPSK	1	0	15.03	15.09	14.98	15.60	0
		1	25	15.03	15.03	15.09	15.60	0
		1	49	14.94	15.04	15.03	15.60	0
		25	0	13.97	14.07	14.10	14.60	1
		25	12	14.04	13.92	14.11	14.60	1
		25	25	14.11	14.09	14.05	14.60	1
	16-QAM	50	0	13.92	14.12	13.96	14.60	1
		1	0	13.96	13.95	14.10	14.60	1
		1	25	14.11	13.97	14.04	14.60	1
		1	49	14.00	14.09	14.01	14.60	1
		25	0	13.01	12.93	13.07	13.60	2
		25	12	12.94	12.94	13.03	13.60	2
	64-QAM	25	25	12.98	12.98	13.10	13.60	2
		50	0	13.02	13.01	13.09	13.60	2
		1	0	12.95	13.05	12.95	13.60	2
		1	25	13.02	12.93	13.08	13.60	2
		1	49	13.11	13.00	12.99	13.60	2
		25	0	11.97	12.00	11.94	12.60	3
		25	12	11.99	12.00	12.06	12.60	3
		25	25	12.01	12.09	11.95	12.60	3
	50	0	12.07	12.04	12.11	12.60	3	
Frequency (MHz)			1852.5	1880	1907.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			18625	18900	19175			
5	QPSK	1	0	14.95	14.98	15.07	15.60	0
		1	12	14.94	14.95	15.09	15.60	0
		1	24	15.09	14.96	15.08	15.60	0
		12	0	14.07	14.01	13.96	14.60	1
		12	6	13.93	13.97	14.00	14.60	1
		12	13	13.94	14.03	14.10	14.60	1
	16-QAM	25	0	14.07	14.01	14.07	14.60	1
		1	0	14.00	14.11	14.07	14.60	1
		1	12	14.05	13.93	13.97	14.60	1
		1	24	14.03	14.00	14.08	14.60	1
		12	0	12.98	13.07	13.07	13.60	2
		12	6	13.07	12.97	12.94	13.60	2
	64-QAM	12	13	13.00	12.96	13.11	13.60	2
		25	0	13.04	13.10	13.05	13.60	2
		1	0	13.04	12.96	12.96	13.60	2
		1	12	12.98	12.99	13.09	13.60	2
		1	24	13.01	13.06	12.94	13.60	2
		12	0	12.03	12.06	11.92	12.60	3
		12	6	12.05	11.95	12.02	12.60	3
		12	13	11.96	11.96	11.95	12.60	3
	25	0	12.02	12.02	12.12	12.60	3	

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LTE Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1851.5	1880	1908.5				
Channel			18615	18900	19185				
3	QPSK	1	0	15.12	15.02	15.10	15.60	0	
		1	7	14.98	14.97	15.01	15.60	0	
		1	14	15.11	15.03	14.93	15.60	0	
		8	0	14.05	13.97	14.01	14.60	1	
		8	4	13.97	14.01	14.02	14.60	1	
		8	7	14.11	14.06	13.98	14.60	1	
	16-QAM	15	0	13.99	14.02	13.93	14.60	1	
		1	0	14.05	13.98	13.96	14.60	1	
		1	7	14.00	14.09	14.10	14.60	1	
		1	14	13.92	13.92	14.09	14.60	1	
		8	0	13.00	12.99	12.95	13.60	2	
		8	4	13.07	13.09	12.92	13.60	2	
	64-QAM	8	7	12.96	13.07	13.09	13.60	2	
		15	0	13.01	13.05	13.12	13.60	2	
		1	0	13.07	13.01	13.06	13.60	2	
		1	7	12.93	12.96	13.01	13.60	2	
		1	14	13.01	13.10	13.08	13.60	2	
		8	0	11.95	12.10	11.96	12.60	3	
	1.4	QPSK	8	4	11.97	12.11	12.09	12.60	3
			8	7	11.97	12.08	12.10	12.60	3
			15	0	12.12	11.94	12.11	12.60	3
Frequency (MHz)			1850.7	1880	1909.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			18607	18900	19193				
1.4		QPSK	1	0	14.95	14.91	15.03	15.60	0
			1	2	15.04	14.97	14.98	15.60	0
			1	5	15.07	14.95	14.96	15.60	0
			3	0	14.98	15.07	14.94	15.60	0
	3		2	15.08	15.08	14.92	15.60	0	
	3		3	14.97	14.94	14.92	15.60	0	
	16-QAM	6	0	13.97	13.93	14.10	14.60	1	
		1	0	14.10	14.07	14.11	14.60	1	
		1	2	14.04	14.01	13.98	14.60	1	
		1	5	14.10	13.96	14.01	14.60	1	
		3	0	14.06	14.09	13.98	14.60	1	
		3	2	13.96	14.05	14.11	14.60	1	
	64-QAM	3	3	13.97	14.04	14.05	14.60	1	
		6	0	12.97	13.03	13.00	13.60	2	
		1	0	12.92	13.06	12.99	13.60	2	
		1	2	12.99	12.95	12.95	13.60	2	
		1	5	13.02	13.04	13.06	13.60	2	
		3	0	13.03	13.08	12.96	13.60	2	
1.4	64-QAM	3	2	13.05	13.06	12.91	13.60	2	
		3	3	13.10	12.96	13.02	13.60	2	
		6	0	11.93	12.08	11.92	12.60	3	

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LTE Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1720	1732.5	1745				
Channel			20050	20175	20300				
20	QPSK	1	0	16.55	16.54	16.46	16.90	0	
		1	50	16.30	16.43	16.26	16.90	0	
		1	99	16.27	16.39	16.38	16.90	0	
		50	0	15.39	15.41	15.38	15.90	1	
		50	25	15.27	15.31	15.34	15.90	1	
		50	50	15.35	15.45	15.38	15.90	1	
	16-QAM	100	0	15.28	15.36	15.42	15.90	1	
		1	0	15.32	15.41	15.30	15.90	1	
		1	50	15.40	15.27	15.38	15.90	1	
		1	99	15.36	15.27	15.44	15.90	1	
		50	0	14.32	14.43	14.30	14.90	2	
		50	25	14.26	14.36	14.40	14.90	2	
	64-QAM	50	50	14.33	14.43	14.37	14.90	2	
		100	0	14.33	14.31	14.38	14.90	2	
		1	0	14.28	14.45	14.30	14.90	2	
		1	50	14.27	14.31	14.27	14.90	2	
		1	99	14.34	14.35	14.35	14.90	2	
		50	0	13.36	13.40	13.27	13.90	3	
	15	QPSK	50	25	13.40	13.38	13.26	13.90	3
			50	50	13.34	13.39	13.38	13.90	3
			100	0	13.27	13.43	13.41	13.90	3
Frequency (MHz)			1717.5	1732.5	1747.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			20025	20175	20325				
15			QPSK	1	0	16.36	16.42	16.32	16.90
		1		36	16.27	16.45	16.35	16.90	0
		1		74	16.31	16.45	16.32	16.90	0
		36		0	15.44	15.28	15.42	15.90	1
		36		18	15.45	15.36	15.45	15.90	1
		36		37	15.44	15.38	15.43	15.90	1
		16-QAM	75	0	15.36	15.42	15.43	15.90	1
	1		0	15.41	15.43	15.30	15.90	1	
	1		36	15.43	15.42	15.27	15.90	1	
	1		74	15.45	15.38	15.31	15.90	1	
	36		0	14.42	14.33	14.34	14.90	2	
	36		18	14.45	14.36	14.30	14.90	2	
	64-QAM	36	37	14.27	14.40	14.36	14.90	2	
		75	0	14.41	14.32	14.42	14.90	2	
		1	0	14.40	14.31	14.43	14.90	2	
		1	36	14.38	14.45	14.37	14.90	2	
		1	74	14.33	14.45	14.28	14.90	2	
		36	0	13.40	13.36	13.30	13.90	3	
64-QAM	36	18	13.27	13.29	13.31	13.90	3		
	36	37	13.28	13.35	13.45	13.90	3		
	75	0	13.43	13.28	13.29	13.90	3		

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LTE Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1715	1732.5	1750			
Channel			20000	20175	20350			
10	QPSK	1	0	16.26	16.46	16.38	16.90	0
		1	25	16.45	16.30	16.26	16.90	0
		1	49	16.26	16.34	16.44	16.90	0
		25	0	15.36	15.32	15.40	15.90	1
		25	12	15.27	15.36	15.39	15.90	1
		25	25	15.32	15.44	15.44	15.90	1
	16-QAM	50	0	15.45	15.26	15.40	15.90	1
		1	0	15.31	15.35	15.43	15.90	1
		1	25	15.27	15.41	15.27	15.90	1
		1	49	15.36	15.28	15.28	15.90	1
		25	0	14.28	14.38	14.33	14.90	2
		25	12	14.35	14.28	14.28	14.90	2
	64-QAM	25	25	14.45	14.31	14.44	14.90	2
		50	0	14.27	14.34	14.38	14.90	2
		1	0	14.37	14.33	14.45	14.90	2
		1	25	14.43	14.45	14.29	14.90	2
		1	49	14.32	14.32	14.42	14.90	2
		25	0	13.30	13.46	13.42	13.90	3
		25	12	13.40	13.32	13.40	13.90	3
		25	25	13.39	13.36	13.36	13.90	3
50	0	13.45	13.43	13.44	13.90	3		
Frequency (MHz)			1712.5	1732.5	1752.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			19975	20175	20375			
5	QPSK	1	0	16.34	16.29	16.38	16.90	0
		1	12	16.41	16.44	16.30	16.90	0
		1	24	16.42	16.42	16.33	16.90	0
		12	0	15.28	15.43	15.32	15.90	1
		12	6	15.40	15.44	15.30	15.90	1
		12	13	15.33	15.30	15.42	15.90	1
	16-QAM	25	0	15.35	15.41	15.34	15.90	1
		1	0	15.43	15.31	15.31	15.90	1
		1	12	15.29	15.35	15.35	15.90	1
		1	24	15.39	15.40	15.32	15.90	1
		12	0	14.33	14.41	14.46	14.90	2
		12	6	14.31	14.44	14.36	14.90	2
	64-QAM	12	13	14.31	14.37	14.41	14.90	2
		25	0	14.33	14.45	14.42	14.90	2
		1	0	14.31	14.42	14.27	14.90	2
		1	12	14.32	14.43	14.34	14.90	2
		1	24	14.31	14.33	14.36	14.90	2
		12	0	13.38	13.27	13.38	13.90	3
		12	6	13.42	13.31	13.39	13.90	3
		12	13	13.44	13.27	13.28	13.90	3
25	0	13.31	13.40	13.41	13.90	3		

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LTE Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1711.5	1732.5	1753.5			
Channel			19965	20175	20385			
3	QPSK	1	0	16.30	16.44	16.40	16.90	0
		1	7	16.39	16.43	16.30	16.90	0
		1	14	16.40	16.39	16.39	16.90	0
		8	0	15.37	15.39	15.33	15.90	1
		8	4	15.28	15.31	15.36	15.90	1
		8	7	15.35	15.45	15.36	15.90	1
	16-QAM	15	0	15.34	15.27	15.42	15.90	1
		1	0	15.45	15.28	15.34	15.90	1
		1	7	15.38	15.35	15.41	15.90	1
		1	14	15.45	15.32	15.38	15.90	1
		8	0	14.42	14.45	14.27	14.90	2
		8	4	14.33	14.28	14.34	14.90	2
	64-QAM	8	7	14.33	14.39	14.45	14.90	2
		15	0	14.43	14.45	14.31	14.90	2
		1	0	14.28	14.36	14.36	14.90	2
		1	7	14.32	14.33	14.32	14.90	2
		1	14	14.44	14.28	14.30	14.90	2
		8	0	13.32	13.43	13.43	13.90	3
		8	4	13.35	13.34	13.40	13.90	3
		8	7	13.43	13.32	13.36	13.90	3
		15	0	13.44	13.37	13.28	13.90	3
Frequency (MHz)			1710.7	1732.5	1754.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			19957	20175	20393			
1.4	QPSK	1	0	16.23	16.37	16.37	16.90	0
		1	2	16.29	16.27	16.22	16.90	0
		1	5	16.25	16.31	16.23	16.90	0
		3	0	16.33	16.39	16.35	16.90	0
		3	2	16.29	16.34	16.28	16.90	0
		3	3	16.38	16.24	16.34	16.90	0
	16-QAM	6	0	15.38	15.38	15.35	15.90	1
		1	0	15.28	15.27	15.19	15.90	1
		1	2	15.24	15.25	15.32	15.90	1
		1	5	15.34	15.28	15.29	15.90	1
		3	0	15.22	15.21	15.28	15.90	1
		3	2	15.26	15.28	15.35	15.90	1
	64-QAM	3	3	15.38	15.22	15.36	15.90	1
		6	0	14.26	14.36	14.28	14.90	2
		1	0	14.19	14.25	14.23	14.90	2
		1	2	14.32	14.39	14.29	14.90	2
		1	5	14.26	14.31	14.24	14.90	2
		3	0	14.20	14.37	14.27	14.90	2
		3	2	14.24	14.34	14.27	14.90	2
		3	3	14.24	14.29	14.39	14.90	2
		6	0	13.38	13.34	13.25	13.90	3

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LTE Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			829	836.5	844			
Channel			20450	20525	20600			
10	QPSK	1	0	19.14	19.22	19.14	20.00	0
		1	25	19.08	19.08	19.13	20.00	0
		1	49	19.07	18.99	18.96	20.00	0
		25	0	17.97	18.00	18.12	19.00	1
		25	12	18.04	18.10	18.01	19.00	1
		25	25	17.99	18.06	18.07	19.00	1
	16-QAM	50	0	17.98	18.04	18.10	19.00	1
		1	0	18.05	18.01	17.96	19.00	1
		1	25	18.09	18.08	17.99	19.00	1
		1	49	18.10	17.97	17.96	19.00	1
		25	0	17.08	17.10	16.97	18.00	2
		25	12	17.01	17.11	17.10	18.00	2
	64-QAM	25	25	17.04	16.96	17.08	18.00	2
		50	0	16.95	17.02	17.06	18.00	2
		1	0	17.00	17.05	16.95	18.00	2
		1	25	17.07	17.10	17.05	18.00	2
		1	49	17.10	16.97	16.98	18.00	2
		25	0	16.07	16.02	15.96	17.00	3
	Frequency (MHz)			826.5	836.5	846.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			20425	20525	20625		
	5	QPSK	1	0	19.01	19.03	19.01	20.00
1			12	19.11	19.07	18.97	20.00	0
1			24	19.04	18.98	19.10	20.00	0
12			0	18.07	18.05	17.97	19.00	1
12			6	18.04	18.12	18.06	19.00	1
12			13	18.08	17.99	17.95	19.00	1
16-QAM		25	0	18.13	17.99	17.95	19.00	1
		1	0	18.03	18.08	17.97	19.00	1
		1	12	17.99	18.06	18.14	19.00	1
		1	24	18.02	17.96	17.97	19.00	1
		12	0	17.13	16.95	17.10	18.00	2
		12	6	17.07	16.95	16.97	18.00	2
64-QAM		12	13	16.95	17.04	17.11	18.00	2
		25	0	17.13	17.03	17.00	18.00	2
		1	0	16.95	16.99	16.97	18.00	2
		1	12	16.98	17.03	17.01	18.00	2
		1	24	17.03	17.05	16.95	18.00	2
		12	0	16.03	15.96	16.03	17.00	3
Frequency (MHz)			826.5	836.5	846.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20425	20525	20625			
5		QPSK	12	6	15.95	15.98	16.04	17.00
	12		13	15.97	16.09	15.99	17.00	3
	25		0	16.07	15.99	15.96	17.00	3
	25		0	16.07	15.99	15.96	17.00	3

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LTE Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			825.5	836.5	847.5			
Channel			20415	20525	20635			
3	QPSK	1	0	18.95	18.95	19.12	20.00	0
		1	7	19.05	19.07	19.13	20.00	0
		1	14	19.06	19.09	19.12	20.00	0
		8	0	18.13	18.00	18.00	19.00	1
		8	4	18.01	18.02	18.07	19.00	1
		8	7	18.13	18.05	17.98	19.00	1
	16-QAM	15	0	18.03	17.98	18.13	19.00	1
		1	0	18.00	17.99	17.98	19.00	1
		1	7	18.05	18.13	18.06	19.00	1
		1	14	18.08	17.96	18.02	19.00	1
		8	0	17.00	17.05	16.97	18.00	2
		8	4	17.01	17.05	17.12	18.00	2
	64-QAM	8	7	17.03	17.13	16.97	18.00	2
		15	0	17.00	16.98	16.95	18.00	2
		1	0	17.05	17.03	16.99	18.00	2
		1	7	17.02	17.06	17.01	18.00	2
		1	14	17.06	16.99	17.02	18.00	2
		8	0	16.11	16.06	16.11	17.00	3
		8	4	16.02	16.11	15.98	17.00	3
		8	7	16.05	15.98	16.09	17.00	3
		15	0	16.11	15.95	16.07	17.00	3
Frequency (MHz)			824.7	836.5	848.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20407	20525	20643			
1.4	QPSK	1	0	18.96	18.92	19.04	20.00	0
		1	2	19.03	18.93	18.95	20.00	0
		1	5	19.04	18.97	19.03	20.00	0
		3	0	18.92	19.01	19.06	20.00	0
		3	2	18.98	19.05	18.94	20.00	0
		3	3	19.08	18.93	19.07	20.00	0
	16-QAM	6	0	18.00	18.07	17.92	19.00	1
		1	0	17.96	17.96	18.00	19.00	1
		1	2	17.99	18.04	17.99	19.00	1
		1	5	18.04	18.06	18.03	19.00	1
		3	0	17.93	17.92	18.03	19.00	1
		3	2	18.04	18.01	17.97	19.00	1
	64-QAM	3	3	18.02	18.07	17.95	19.00	1
		6	0	17.04	17.06	17.06	18.00	2
		1	0	17.05	17.05	16.92	18.00	2
		1	2	17.07	17.04	17.06	18.00	2
		1	5	17.08	16.95	16.96	18.00	2
		3	0	17.07	16.96	17.07	18.00	2
		3	2	16.98	16.90	16.92	18.00	2
		3	3	16.91	17.06	17.07	18.00	2
		6	0	15.99	16.01	16.05	17.00	3

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LTE Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2510	2535	2560			
Channel			20850	21100	21350			
20	QPSK	1	0	14.53	14.45	14.38	15.00	0
		1	50	14.29	14.35	14.31	15.00	0
		1	99	14.32	14.21	14.34	15.00	0
		50	0	13.28	13.18	13.31	14.00	1
		50	25	13.23	13.31	13.28	14.00	1
		50	50	13.32	13.34	13.30	14.00	1
	100	0	13.32	13.28	13.25	14.00	1	
	16-QAM	1	0	13.22	13.25	13.21	14.00	1
		1	50	13.27	13.33	13.32	14.00	1
		1	99	13.25	13.20	13.35	14.00	1
		50	0	12.29	12.27	12.36	13.00	2
		50	25	12.21	12.37	12.21	13.00	2
		50	50	12.31	12.37	12.37	13.00	2
	100	0	12.28	12.38	12.30	13.00	2	
	64-QAM	1	0	12.27	12.30	12.20	13.00	2
		1	50	12.30	12.34	12.19	13.00	2
		1	99	12.18	12.20	12.30	13.00	2
		50	0	11.28	11.27	11.18	12.00	3
		50	25	11.27	11.35	11.21	12.00	3
		50	50	11.30	11.22	11.34	12.00	3
	100	0	11.22	11.38	11.28	12.00	3	
Frequency (MHz)			2507.5	2535	2562.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20825	21100	21375			
15	QPSK	1	0	14.19	14.24	14.19	15.00	0
		1	36	14.21	14.32	14.23	15.00	0
		1	74	14.22	14.37	14.33	15.00	0
		36	0	13.22	13.36	13.19	14.00	1
		36	18	13.25	13.36	13.34	14.00	1
		36	37	13.25	13.29	13.36	14.00	1
	75	0	13.19	13.32	13.26	14.00	1	
	16-QAM	1	0	13.23	13.29	13.20	14.00	1
		1	36	13.22	13.37	13.35	14.00	1
		1	74	13.20	13.29	13.18	14.00	1
		36	0	12.29	12.35	12.24	13.00	2
		36	18	12.20	12.37	12.25	13.00	2
		36	37	12.26	12.33	12.30	13.00	2
	75	0	12.35	12.33	12.34	13.00	2	
	64-QAM	1	0	12.29	12.26	12.28	13.00	2
		1	36	12.20	12.27	12.27	13.00	2
		1	74	12.36	12.22	12.22	13.00	2
		36	0	11.26	11.33	11.31	12.00	3
		36	18	11.20	11.29	11.31	12.00	3
		36	37	11.37	11.35	11.21	12.00	3
	75	0	11.23	11.36	11.24	12.00	3	

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LTE Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2505	2535	2565			
Channel			20800	21100	21400			
10	QPSK	1	0	14.25	14.18	14.31	15.00	0
		1	25	14.19	14.28	14.21	15.00	0
		1	49	14.32	14.21	14.34	15.00	0
		25	0	13.25	13.27	13.29	14.00	1
		25	12	13.26	13.30	13.18	14.00	1
		25	25	13.34	13.25	13.35	14.00	1
	16-QAM	50	0	13.32	13.29	13.26	14.00	1
		1	0	13.25	13.37	13.26	14.00	1
		1	25	13.22	13.34	13.22	14.00	1
		1	49	13.20	13.33	13.30	14.00	1
		25	0	12.22	12.28	12.37	13.00	2
		25	12	12.33	12.23	12.35	13.00	2
	64-QAM	25	25	12.33	12.31	12.23	13.00	2
		50	0	12.22	12.21	12.27	13.00	2
		1	0	12.38	12.24	12.20	13.00	2
		1	25	12.38	12.24	12.22	13.00	2
		1	49	12.35	12.34	12.30	13.00	2
		25	0	11.26	11.26	11.24	12.00	3
Frequency (MHz)			2502.5	2535	2567.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20775	21100	21425			
5	QPSK	1	0	14.19	14.20	14.38	15.00	0
		1	12	14.23	14.26	14.36	15.00	0
		1	24	14.26	14.28	14.37	15.00	0
		12	0	13.23	13.37	13.26	14.00	1
		12	6	13.29	13.25	13.26	14.00	1
		12	13	13.19	13.31	13.34	14.00	1
	16-QAM	25	0	13.27	13.38	13.27	14.00	1
		1	0	13.37	13.25	13.26	14.00	1
		1	12	13.27	13.20	13.23	14.00	1
		1	24	13.18	13.19	13.37	14.00	1
		12	0	12.28	12.33	12.38	13.00	2
		12	6	12.31	12.24	12.26	13.00	2
	64-QAM	12	13	12.22	12.23	12.37	13.00	2
		25	0	12.27	12.34	12.35	13.00	2
		1	0	12.35	12.20	12.26	13.00	2
		1	12	12.32	12.31	12.34	13.00	2
		1	24	12.36	12.25	12.24	13.00	2
		12	0	11.35	11.38	11.25	12.00	3
Frequency (MHz)			2502.5	2535	2567.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			20775	21100	21425			
5	QPSK	1	0	14.19	14.20	14.38	15.00	0
		1	12	14.23	14.26	14.36	15.00	0
		1	24	14.26	14.28	14.37	15.00	0
		12	0	13.23	13.37	13.26	14.00	1
		12	6	13.29	13.25	13.26	14.00	1
		12	13	13.19	13.31	13.34	14.00	1
	16-QAM	25	0	13.27	13.38	13.27	14.00	1
		1	0	13.37	13.25	13.26	14.00	1
		1	12	13.27	13.20	13.23	14.00	1
		1	24	13.18	13.19	13.37	14.00	1
		12	0	12.28	12.33	12.38	13.00	2
		12	6	12.31	12.24	12.26	13.00	2
	64-QAM	12	13	12.22	12.23	12.37	13.00	2
		25	0	12.27	12.34	12.35	13.00	2
		1	0	12.35	12.20	12.26	13.00	2
		1	12	12.32	12.31	12.34	13.00	2
		1	24	12.36	12.25	12.24	13.00	2
		12	0	11.35	11.38	11.25	12.00	3

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LTE Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			704	707.5	711			
Channel			23060	23095	23130			
10	QPSK	1	0	19.03	19.07	19.17	20.00	0
		1	25	19.02	19.02	18.99	20.00	0
		1	49	18.90	19.02	18.95	20.00	0
		25	0	17.84	17.84	17.93	19.00	1
		25	12	17.90	17.87	17.93	19.00	1
		25	25	18.01	18.00	17.95	19.00	1
	16-QAM	50	0	17.99	17.98	17.83	19.00	1
		1	0	17.98	17.91	17.95	19.00	1
		1	25	17.84	18.03	17.94	19.00	1
		1	49	18.03	17.85	17.86	19.00	1
		25	0	16.86	16.91	17.01	18.00	2
		25	12	16.90	16.95	16.97	18.00	2
	64-QAM	25	25	16.88	16.97	16.98	18.00	2
		50	0	16.97	16.96	16.97	18.00	2
		1	0	17.00	16.89	17.00	18.00	2
		1	25	16.85	17.00	16.90	18.00	2
		1	49	16.97	16.84	16.85	18.00	2
		25	0	15.97	15.98	15.92	17.00	3
	Frequency (MHz)			701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			23035	23095	23155		
	5	QPSK	1	0	18.85	18.84	18.98	20.00
1			12	18.85	18.86	19.03	20.00	0
1			24	18.91	19.00	18.84	20.00	0
12			0	17.96	17.94	17.85	19.00	1
12			6	17.89	17.85	17.99	19.00	1
12			13	17.89	17.93	17.94	19.00	1
16-QAM		25	0	17.94	17.94	18.01	19.00	1
		1	0	17.86	18.01	17.88	19.00	1
		1	12	17.92	17.97	17.89	19.00	1
		1	24	18.01	17.97	18.01	19.00	1
		12	0	16.98	16.96	16.98	18.00	2
		12	6	16.93	16.97	16.84	18.00	2
64-QAM		12	13	16.84	16.96	16.89	18.00	2
		25	0	16.85	16.89	16.86	18.00	2
		1	0	16.93	16.96	16.85	18.00	2
		1	12	16.99	16.97	16.88	18.00	2
		1	24	16.90	16.88	16.95	18.00	2
		12	0	15.85	15.90	15.97	17.00	3
Frequency (MHz)			701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23035	23095	23155			
5		QPSK	12	6	15.95	15.95	15.98	17.00
	12		13	15.94	15.87	15.97	17.00	3
	25		0	16.01	15.95	15.84	17.00	3
	25		0	16.01	15.95	15.84	17.00	3

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LTE Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			700.5	707.5	714.5			
Channel			23025	23095	23165			
3	QPSK	1	0	18.88	18.89	18.98	20.00	0
		1	7	18.89	18.95	18.96	20.00	0
		1	14	18.92	19.00	18.88	20.00	0
		8	0	18.01	17.92	17.85	19.00	1
		8	4	17.97	17.87	18.02	19.00	1
		8	7	18.00	18.02	17.90	19.00	1
	16-QAM	15	0	18.02	17.99	17.92	19.00	1
		1	0	17.95	17.86	17.92	19.00	1
		1	7	17.98	17.90	17.84	19.00	1
		1	14	17.91	17.93	17.85	19.00	1
		8	0	16.92	16.90	16.91	18.00	2
		8	4	16.83	17.03	16.94	18.00	2
	64-QAM	8	7	16.87	16.87	17.02	18.00	2
		15	0	16.98	17.00	16.85	18.00	2
		1	0	16.96	16.97	16.93	18.00	2
		1	7	16.84	16.85	16.97	18.00	2
		1	14	16.91	16.88	16.96	18.00	2
		8	0	15.99	15.93	15.92	17.00	3
		8	4	15.99	16.00	15.87	17.00	3
		8	7	15.96	16.00	16.00	17.00	3
		15	0	15.84	15.94	15.86	17.00	3
Frequency (MHz)			699.7	707.5	715.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23017	23095	23173			
1.4	QPSK	1	0	19.02	18.98	18.94	20.00	0
		1	2	18.83	18.98	18.85	20.00	0
		1	5	18.88	18.86	18.90	20.00	0
		3	0	18.89	18.95	18.83	20.00	0
		3	2	18.94	18.86	19.01	20.00	0
		3	3	19.03	18.88	19.03	20.00	0
	16-QAM	6	0	17.85	17.97	17.90	19.00	1
		1	0	17.90	18.03	17.92	19.00	1
		1	2	17.84	17.96	18.01	19.00	1
		1	5	17.95	18.00	17.94	19.00	1
		3	0	18.01	17.91	18.03	19.00	1
		3	2	17.95	17.90	18.02	19.00	1
	64-QAM	3	3	18.01	17.89	17.96	19.00	1
		6	0	16.93	16.95	16.89	18.00	2
		1	0	16.99	16.98	16.88	18.00	2
		1	2	16.96	16.93	16.94	18.00	2
		1	5	16.84	17.00	16.96	18.00	2
		3	0	16.98	17.02	16.94	18.00	2
		3	2	16.96	16.85	16.98	18.00	2
		3	3	16.90	16.94	16.88	18.00	2
		6	0	16.01	15.86	15.94	17.00	3

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LTE Band 13								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			782	782	782			
Channel			23230	23230	23230			
10	QPSK	1	0	19.23			20.00	0
		1	25	19.06			20.00	0
		1	49	19.03			20.00	0
		25	0	18.20			19.00	1
		25	12	18.17			19.00	1
		25	25	18.05			19.00	1
	16-QAM	50	0	18.18			19.00	1
		1	0	18.03			19.00	1
		1	25	18.06			19.00	1
		1	49	18.05			19.00	1
		25	0	17.01			18.00	2
		25	12	17.14			18.00	2
	64-QAM	25	25	17.18			18.00	2
		50	0	17.13			18.00	2
		1	0	17.12			18.00	2
		1	25	17.18			18.00	2
		1	49	17.15			18.00	2
		25	0	16.14			17.00	3
	Frequency (MHz)			779.5	782	784.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			23205	23230	23255		
5	QPSK	1	0	19.12	19.12	19.14	20.00	0
		1	12	19.17	19.04	19.11	20.00	0
		1	24	19.11	19.19	19.13	20.00	0
		12	0	18.08	18.10	18.06	19.00	1
		12	6	18.12	18.15	18.07	19.00	1
		12	13	18.02	18.06	18.04	19.00	1
	16-QAM	25	0	18.17	18.20	18.17	19.00	1
		1	0	18.04	18.06	18.13	19.00	1
		1	12	18.02	18.00	18.19	19.00	1
		1	24	18.06	18.06	18.04	19.00	1
		12	0	17.11	17.11	17.00	18.00	2
		12	6	17.13	17.07	17.03	18.00	2
	64-QAM	12	13	17.02	17.14	17.19	18.00	2
		25	0	17.02	17.11	17.16	18.00	2
		1	0	17.03	17.03	17.13	18.00	2
		1	12	17.12	17.14	17.05	18.00	2
		1	24	17.14	17.02	17.18	18.00	2
		12	0	16.20	16.12	16.20	17.00	3
		12	6	16.04	16.14	16.08	17.00	3
		12	13	16.20	16.01	16.19	17.00	3
25	0	16.16	16.01	16.18	17.00	3		

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LTE Band 14								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			793	793	793			
Channel			23330	23330	23330			
10	QPSK	1	0	18.89			19.50	0
		1	25	18.62			19.50	0
		1	49	18.79			19.50	0
		25	0	17.76			18.50	1
		25	12	17.63			18.50	1
		25	25	17.63			18.50	1
	16-QAM	50	0	17.78			18.50	1
		1	0	17.73			18.50	1
		1	25	17.61			18.50	1
		1	49	17.66			18.50	1
		25	0	16.67			17.50	2
		25	12	16.77			17.50	2
	64-QAM	25	25	16.71			17.50	2
		50	0	16.68			17.50	2
		1	0	16.70			17.50	2
		1	25	16.65			17.50	2
		1	49	16.77			17.50	2
		25	0	15.70			16.50	3
Frequency (MHz)			790.5	793	795.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23305	23330	23355			
5	QPSK	1	0	18.69	18.71	18.62	19.50	0
		1	12	18.73	18.75	18.78	19.50	0
		1	24	18.79	18.69	18.79	19.50	0
		12	0	17.71	17.79	17.78	18.50	1
		12	6	17.67	17.63	17.63	18.50	1
		12	13	17.63	17.71	17.74	18.50	1
	16-QAM	25	0	17.79	17.64	17.76	18.50	1
		1	0	17.71	17.80	17.65	18.50	1
		1	12	17.64	17.72	17.70	18.50	1
		1	24	17.78	17.72	17.64	18.50	1
		12	0	16.70	16.61	16.61	17.50	2
		12	6	16.79	16.61	16.73	17.50	2
	64-QAM	12	13	16.62	16.76	16.78	17.50	2
		25	0	16.73	16.62	16.62	17.50	2
		1	0	16.74	16.68	16.61	17.50	2
		1	12	16.76	16.65	16.72	17.50	2
		1	24	16.68	16.66	16.78	17.50	2
		12	0	15.65	15.65	15.75	16.50	3
Frequency (MHz)			790.5	793	795.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			23305	23330	23355			
5	QPSK	1	0	15.63	15.61	15.66	16.50	3
		1	6	15.79	15.64	15.77	16.50	3
		12	13	15.63	15.61	15.66	16.50	3
		25	0	15.64	15.78	15.65	16.50	3

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LTE Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1860	1882.5	1905				
Channel			26140	26365	26590				
20	QPSK	1	0	15.25	15.07	15.22	15.60	0	
		1	50	14.97	15.06	14.99	15.60	0	
		1	99	14.90	15.07	14.96	15.60	0	
		50	0	13.99	14.00	14.06	14.60	1	
		50	25	13.94	13.89	13.96	14.60	1	
		50	50	13.99	13.92	14.01	14.60	1	
	16-QAM	100	0	14.04	13.97	13.97	14.60	1	
		1	0	13.90	14.01	14.01	14.60	1	
		1	50	13.96	13.92	13.89	14.60	1	
		1	99	13.93	13.93	13.87	14.60	1	
		50	0	13.06	12.89	13.02	13.60	2	
		50	25	13.07	12.92	12.94	13.60	2	
	64-QAM	50	50	13.06	12.92	12.92	13.60	2	
		100	0	12.96	13.01	12.94	13.60	2	
		1	0	12.99	13.03	12.99	13.60	2	
		1	50	12.92	12.94	12.91	13.60	2	
		1	99	13.00	12.87	12.93	13.60	2	
		50	0	12.05	12.05	12.05	12.60	3	
	15	QPSK	50	25	11.93	12.06	11.99	12.60	3
			50	50	11.93	11.99	11.92	12.60	3
			100	0	11.91	12.07	12.06	12.60	3
1			0	15.03	14.96	14.95	15.60	0	
1			36	14.92	14.90	15.04	15.60	0	
1			74	15.06	14.97	14.95	15.60	0	
16-QAM		36	0	13.91	13.98	13.88	14.60	1	
		36	18	13.94	13.94	14.01	14.60	1	
		36	37	14.04	13.89	13.99	14.60	1	
		75	0	13.92	13.96	14.00	14.60	1	
		1	0	13.90	14.00	14.05	14.60	1	
		1	36	13.90	14.02	13.98	14.60	1	
64-QAM	1	74	14.02	14.04	13.97	14.60	1		
	36	0	12.94	12.88	13.07	13.60	2		
	36	18	12.89	12.90	12.97	13.60	2		
	36	37	13.01	12.90	12.89	13.60	2		
	75	0	13.00	12.95	13.00	13.60	2		
	1	0	12.96	13.03	13.02	13.60	2		
LTE Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1857.5	1882.5	1907.5				
Channel			26115	26365	26615				
15	QPSK	1	0	15.03	14.96	14.95	15.60	0	
		1	36	14.92	14.90	15.04	15.60	0	
		1	74	15.06	14.97	14.95	15.60	0	
		36	0	13.91	13.98	13.88	14.60	1	
		36	18	13.94	13.94	14.01	14.60	1	
		36	37	14.04	13.89	13.99	14.60	1	
	16-QAM	75	0	13.92	13.96	14.00	14.60	1	
		1	0	13.90	14.00	14.05	14.60	1	
		1	36	13.90	14.02	13.98	14.60	1	
		1	74	14.02	14.04	13.97	14.60	1	
		36	0	12.94	12.88	13.07	13.60	2	
		36	18	12.89	12.90	12.97	13.60	2	
64-QAM	36	37	13.01	12.90	12.89	13.60	2		
	75	0	13.00	12.95	13.00	13.60	2		
	1	0	12.96	13.03	13.02	13.60	2		
	1	36	12.93	13.05	13.00	13.60	2		
	1	74	12.91	12.92	13.03	13.60	2		
	36	0	11.95	12.03	11.96	12.60	3		

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LTE Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1855	1882.5	1910				
Channel			26090	26365	26640				
10	QPSK	1	0	14.95	15.07	14.97	15.60	0	
		1	25	14.90	14.88	14.99	15.60	0	
		1	49	14.99	14.93	15.04	15.60	0	
		25	0	14.05	14.01	13.96	14.60	1	
		25	12	13.98	13.98	13.98	14.60	1	
		25	25	13.88	13.88	13.93	14.60	1	
	16-QAM	50	0	13.88	13.91	13.95	14.60	1	
		1	0	13.97	13.98	13.97	14.60	1	
		1	25	13.96	13.89	13.88	14.60	1	
		1	49	14.01	13.93	14.03	14.60	1	
		25	0	13.00	12.93	12.88	13.60	2	
		25	12	12.93	12.96	13.06	13.60	2	
	64-QAM	25	25	12.93	13.02	12.88	13.60	2	
		50	0	12.93	12.88	13.02	13.60	2	
		1	0	13.05	13.00	12.96	13.60	2	
		1	25	13.07	13.02	13.01	13.60	2	
		1	49	12.88	12.89	12.91	13.60	2	
		25	0	11.89	11.94	12.06	12.60	3	
	5	QPSK	25	12	12.05	11.97	12.06	12.60	3
			25	25	11.97	11.90	12.00	12.60	3
			50	0	12.04	12.00	12.00	12.60	3
Frequency (MHz)			1852.5	1882.5	1912.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			26065	26365	26665				
5			QPSK	1	0			14.91	14.99
		1		12	14.95	14.94	15.05	15.60	0
		1		24	14.89	14.88	14.88	15.60	0
		12		0	13.95	14.04	13.95	14.60	1
		12		6	14.07	13.94	14.05	14.60	1
		16-QAM	12	13	13.89	14.00	14.03	14.60	1
			25	0	13.92	14.05	14.02	14.60	1
			1	0	13.91	14.06	13.91	14.60	1
			1	12	13.98	13.97	13.91	14.60	1
			1	24	13.99	14.04	14.06	14.60	1
		64-QAM	12	0	12.95	13.03	13.06	13.60	2
			12	6	13.02	12.90	13.01	13.60	2
			12	13	13.01	13.01	13.01	13.60	2
			25	0	12.91	13.01	13.02	13.60	2
			1	0	12.97	12.95	13.05	13.60	2
64-QAM		1	12	13.02	12.95	12.93	13.60	2	
	1	24	13.00	12.91	13.04	13.60	2		
	12	0	11.87	12.02	12.07	12.60	3		
	12	6	12.03	11.90	11.97	12.60	3		
	12	13	11.95	11.96	11.97	12.60	3		
	25	0	11.99	12.07	11.88	12.60	3		

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LTE Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				1851.5	1882.5	1913.5			
Channel				26055	26365	26675			
3	QPSK	1	0	15.05	15.04	15.03	15.60	0	
		1	7	15.01	14.89	14.93	15.60	0	
		1	14	14.98	14.98	14.97	15.60	0	
		8	0	14.07	13.87	13.93	14.60	1	
		8	4	14.03	14.06	13.91	14.60	1	
		8	7	13.89	13.99	14.04	14.60	1	
	16-QAM	15	0	14.01	13.98	13.87	14.60	1	
		1	0	13.95	13.90	14.01	14.60	1	
		1	7	13.91	14.00	14.03	14.60	1	
		1	14	13.94	13.93	13.97	14.60	1	
		8	0	13.02	12.99	12.90	13.60	2	
		8	4	13.01	13.01	12.99	13.60	2	
	64-QAM	8	7	13.07	13.01	13.05	13.60	2	
		15	0	12.94	12.91	13.04	13.60	2	
		1	0	13.04	13.00	12.98	13.60	2	
		1	7	13.05	13.03	12.89	13.60	2	
		1	14	13.06	12.94	13.06	13.60	2	
		8	0	12.05	12.04	12.00	12.60	3	
	Frequency (MHz)				1850.7	1880	1909.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				18607	18900	19193		
	1.4	QPSK	1	0	14.90	15.00	15.01		
1			2	15.00	14.92	14.86	15.60	0	
1			5	15.00	15.03	14.93	15.60	0	
3			0	14.92	14.99	14.95	15.60	0	
3			2	14.95	14.98	15.04	15.60	0	
3			3	14.90	14.88	14.89	15.60	0	
16-QAM		6	0	13.95	14.05	13.92	14.60	1	
		1	0	13.97	13.97	13.98	14.60	1	
		1	2	13.99	13.91	13.89	14.60	1	
		1	5	14.00	14.02	14.06	14.60	1	
		3	0	14.00	13.98	14.04	14.60	1	
		3	2	14.03	14.06	13.96	14.60	1	
64-QAM		3	3	14.02	13.92	13.97	14.60	1	
		6	0	12.98	13.00	13.02	13.60	2	
		1	0	12.94	13.00	13.06	13.60	2	
		1	2	12.90	13.02	13.02	13.60	2	
		1	5	13.03	12.96	12.93	13.60	2	
		3	0	12.86	12.89	12.93	13.60	2	
Frequency (MHz)				1850.7	1880	1909.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				18607	18900	19193			
1.4	QPSK	3	2	13.01	13.01	12.90			13.60
		3	3	12.86	13.00	12.92	13.60	2	
		6	0	12.05	11.88	12.05	12.60	3	
		6	0	12.05	11.88	12.05	12.60	3	

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LTE Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			821.5	831.5	841.5				
Channel			26765	26865	26965				
15	QPSK	1	0	19.21	19.16	19.29	20.00	0	
		1	36	19.10	19.09	19.00	20.00	0	
		1	74	19.04	19.04	18.98	20.00	0	
		36	0	18.02	18.14	18.03	19.00	1	
		36	18	18.02	18.00	17.97	19.00	1	
		36	37	17.98	18.09	18.01	19.00	1	
	16-QAM	75	0	18.12	17.97	18.15	19.00	1	
		1	0	18.04	17.97	18.08	19.00	1	
		1	36	18.11	17.99	17.98	19.00	1	
		1	74	18.08	18.09	18.04	19.00	1	
		36	0	17.13	17.08	17.07	18.00	2	
		36	18	17.07	17.06	17.14	18.00	2	
	64-QAM	36	37	16.99	17.11	17.14	18.00	2	
		75	0	17.12	16.97	17.15	18.00	2	
		1	0	17.08	17.03	17.10	18.00	2	
		1	36	17.03	17.00	17.01	18.00	2	
		1	74	16.99	17.05	17.15	18.00	2	
		36	0	16.12	16.13	16.11	17.00	3	
	10	QPSK	36	18	16.04	16.11	16.04	17.00	3
			36	37	16.01	16.05	16.00	17.00	3
			75	0	16.04	16.04	15.99	17.00	3
Frequency (MHz)			819	831.5	844	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Channel			26740	26865	26990				
16-QAM			1	0	19.15			18.99	19.12
		1	25	19.11	18.99	19.03	20.00	0	
		1	49	19.04	19.07	19.15	20.00	0	
		25	0	18.07	18.07	18.12	19.00	1	
		25	12	18.15	18.03	18.03	19.00	1	
		25	25	17.99	17.98	18.05	19.00	1	
		50	0	18.05	17.98	18.09	19.00	1	
		64-QAM	1	0	18.06	18.11	17.99	19.00	1
			1	25	18.01	18.12	18.11	19.00	1
1			49	18.07	18.10	18.15	19.00	1	
25	0		17.11	17.02	16.99	18.00	2		
25	12		17.05	17.04	17.10	18.00	2		
25	25		17.09	17.10	16.98	18.00	2		
64-QAM	50	0	17.04	17.08	17.03	18.00	2		
	1	0	17.09	16.96	17.08	18.00	2		
	1	25	17.04	17.14	16.98	18.00	2		
	1	49	16.98	17.04	17.00	18.00	2		
	25	0	16.09	15.97	16.00	17.00	3		
	25	12	16.14	16.15	16.00	17.00	3		
	25	25	16.11	16.05	16.07	17.00	3		
	50	0	15.97	16.11	16.12	17.00	3		

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LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			816.5	831.5	846.5			
Channel			26715	26865	27015			
5	QPSK	1	0	18.97	18.99	19.02	20.00	0
		1	12	19.10	19.04	19.11	20.00	0
		1	24	19.10	19.02	19.08	20.00	0
		12	0	18.14	18.14	18.02	19.00	1
		12	6	18.08	18.10	18.00	19.00	1
		12	13	18.15	18.03	18.09	19.00	1
	16-QAM	25	0	18.13	18.11	17.96	19.00	1
		1	0	18.11	17.98	18.00	19.00	1
		1	12	18.10	18.00	18.13	19.00	1
		1	24	18.14	18.09	17.97	19.00	1
		12	0	17.09	17.01	17.03	18.00	2
		12	6	17.01	16.97	17.03	18.00	2
	64-QAM	12	13	17.15	17.10	17.12	18.00	2
		25	0	17.02	17.00	16.97	18.00	2
		1	0	16.99	17.09	17.00	18.00	2
		1	12	17.09	17.03	17.11	18.00	2
		1	24	17.00	17.10	17.16	18.00	2
		12	0	16.13	16.15	16.00	17.00	3
		12	6	16.07	16.08	16.03	17.00	3
		12	13	16.06	15.99	16.02	17.00	3
	25	0	16.00	16.14	16.08	17.00	3	
Frequency (MHz)			815.5	831.5	847.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			26705	26865	27025			
3	QPSK	1	0	19.12	18.97	18.97	20.00	0
		1	7	19.08	19.03	19.01	20.00	0
		1	14	18.98	19.06	19.00	20.00	0
		8	0	17.98	18.10	18.10	19.00	1
		8	4	18.11	18.10	18.10	19.00	1
		8	7	18.05	18.13	18.06	19.00	1
	16-QAM	15	0	17.97	18.00	18.14	19.00	1
		1	0	18.14	18.00	18.11	19.00	1
		1	7	18.00	18.04	18.16	19.00	1
		1	14	17.98	18.08	17.96	19.00	1
		8	0	17.05	16.99	17.15	18.00	2
		8	4	17.10	16.99	17.12	18.00	2
	64-QAM	8	7	17.15	16.99	17.09	18.00	2
		15	0	17.03	17.15	16.98	18.00	2
		1	0	16.99	17.15	17.14	18.00	2
		1	7	17.03	17.09	17.02	18.00	2
		1	14	17.13	16.98	17.15	18.00	2
		8	0	15.99	16.10	16.09	17.00	3
		8	4	16.09	16.10	15.99	17.00	3
		8	7	16.01	16.00	16.03	17.00	3
	15	0	16.01	16.14	16.09	17.00	3	

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

LTE Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			814.7	831.5	848.3			
Channel			26697	26865	27033			
1.4	QPSK	1	0	19.14	19.00	19.07	20.00	0
		1	2	18.98	19.00	18.96	20.00	0
		1	5	19.11	19.01	19.08	20.00	0
		3	0	19.12	19.04	18.99	20.00	0
		3	2	19.08	19.02	19.00	20.00	0
		3	3	19.13	18.99	19.09	20.00	0
	16-QAM	6	0	18.12	18.14	18.14	19.00	1
		1	0	18.11	18.03	18.10	19.00	1
		1	2	18.09	18.14	17.98	19.00	1
		1	5	18.11	18.03	18.04	19.00	1
		3	0	18.04	18.05	18.08	19.00	1
		3	2	18.14	18.11	18.14	19.00	1
	64-QAM	3	3	18.09	17.98	18.03	19.00	1
		6	0	17.09	17.09	17.01	18.00	2
		1	0	17.01	17.03	17.04	18.00	2
		1	2	17.14	17.08	17.04	18.00	2
		1	5	17.05	17.10	16.96	18.00	2
		3	0	17.04	17.00	17.12	18.00	2
		3	2	17.01	16.99	17.14	18.00	2
		3	3	17.05	17.15	17.14	18.00	2
		6	0	15.97	16.05	16.10	17.00	3

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LTE Band 30								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2310	2310	2310			
Channel			27710	27710	27710			
10	QPSK	1	0	15.71			16.50	0
		1	25	15.56			16.50	0
		1	49	15.59			16.50	0
		25	0	14.65			15.50	1
		25	12	14.69			15.50	1
		25	25	14.51			15.50	1
	16-QAM	50	0	14.55			15.50	1
		1	0	14.54			15.50	1
		1	25	14.61			15.50	1
		1	49	14.51			15.50	1
		25	0	13.57			14.50	2
		25	12	13.64			14.50	2
	64-QAM	25	25	13.55			14.50	2
		50	0	13.57			14.50	2
		1	0	13.60			14.50	2
		1	25	13.63			14.50	2
		1	49	13.58			14.50	2
		25	0	12.66			13.50	3
	Frequency (MHz)			2307.5	2310	2312.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			27685	27710	27735		
	5	QPSK	1	0	15.67	15.58	15.62	16.50
1			12	15.69	15.53	15.69	16.50	0
1			24	15.59	15.68	15.59	16.50	0
12			0	14.67	14.58	14.66	15.50	1
12			6	14.63	14.56	14.67	15.50	1
12			13	14.60	14.70	14.61	15.50	1
16-QAM		25	0	14.51	14.54	14.58	15.50	1
		1	0	14.57	14.55	14.65	15.50	1
		1	12	14.70	14.65	14.65	15.50	1
		1	24	14.67	14.55	14.65	15.50	1
		12	0	13.65	13.50	13.63	14.50	2
		12	6	13.55	13.68	13.65	14.50	2
64-QAM		12	13	13.68	13.65	13.63	14.50	2
		25	0	13.61	13.65	13.60	14.50	2
		1	0	13.66	13.69	13.61	14.50	2
		1	12	13.68	13.69	13.51	14.50	2
		1	24	13.54	13.59	13.52	14.50	2
		12	0	12.60	12.55	12.64	13.50	3
Frequency (MHz)			2307.5	2310	2312.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			27685	27710	27735			
5		QPSK	12	6	12.69	12.56	12.70	13.50
	12		13	12.68	12.52	12.59	13.50	3
	25		0	12.53	12.53	12.53	13.50	3
	25		0	12.53	12.53	12.53	13.50	3

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LTE Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)			1720	1745	1770				
Channel			132072	132322	132572				
20	QPSK	1	0	16.51	16.54	16.37	16.90	0	
		1	50	16.36	16.19	16.33	16.90	0	
		1	99	16.36	16.31	16.31	16.90	0	
		50	0	15.21	15.33	15.24	15.90	1	
		50	25	15.24	15.17	15.19	15.90	1	
		50	50	15.26	15.34	15.35	15.90	1	
	16-QAM	100	0	15.37	15.24	15.25	15.90	1	
		1	0	15.23	15.17	15.33	15.90	1	
		1	50	15.20	15.37	15.25	15.90	1	
		1	99	15.35	15.32	15.34	15.90	1	
		50	0	14.34	14.19	14.30	14.90	2	
		50	25	14.24	14.30	14.34	14.90	2	
	64-QAM	50	50	14.25	14.32	14.28	14.90	2	
		100	0	14.20	14.30	14.20	14.90	2	
		1	0	14.34	14.22	14.21	14.90	2	
		1	50	14.21	14.30	14.26	14.90	2	
		1	99	14.25	14.19	14.18	14.90	2	
		50	0	13.23	13.25	13.27	13.90	3	
15	QPSK	50	25	13.21	13.19	13.22	13.90	3	
		50	50	13.26	13.34	13.33	13.90	3	
		100	0	13.28	13.29	13.25	13.90	3	
		Frequency (MHz)			1717.5	1745	1772.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
		Channel			132047	132322	132597		
		15	QPSK	1	0	16.19	16.24		
	1			36	16.34	16.23	16.32	16.90	0
	1			74	16.35	16.19	16.29	16.90	0
	36			0	15.34	15.26	15.27	15.90	1
	36			18	15.23	15.34	15.18	15.90	1
	36			37	15.24	15.36	15.25	15.90	1
	16-QAM		75	0	15.32	15.31	15.18	15.90	1
			1	0	15.34	15.24	15.33	15.90	1
			1	36	15.33	15.20	15.25	15.90	1
			1	74	15.35	15.25	15.30	15.90	1
			36	0	14.35	14.18	14.35	14.90	2
			36	18	14.33	14.27	14.24	14.90	2
	64-QAM		36	37	14.21	14.25	14.24	14.90	2
75			0	14.27	14.23	14.25	14.90	2	
1			0	14.21	14.28	14.23	14.90	2	
1			36	14.30	14.27	14.23	14.90	2	
1			74	14.32	14.31	14.21	14.90	2	
36			0	13.25	13.22	13.29	13.90	3	
64-QAM	36	18	13.20	13.30	13.33	13.90	3		
	36	37	13.32	13.36	13.34	13.90	3		
	75	0	13.34	13.23	13.20	13.90	3		

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LTE Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1745	1775		
Channel				132022	132322	132622		
10	QPSK	1	0	16.35	16.30	16.32	16.90	0
		1	25	16.19	16.22	16.25	16.90	0
		1	49	16.20	16.27	16.21	16.90	0
		25	0	15.37	15.34	15.29	15.90	1
		25	12	15.33	15.28	15.17	15.90	1
		25	25	15.21	15.23	15.23	15.90	1
		50	0	15.24	15.29	15.31	15.90	1
	16-QAM	1	0	15.23	15.33	15.22	15.90	1
		1	25	15.23	15.22	15.27	15.90	1
		1	49	15.31	15.28	15.32	15.90	1
		25	0	14.30	14.36	14.22	14.90	2
		25	12	14.35	14.18	14.34	14.90	2
		25	25	14.22	14.33	14.24	14.90	2
		50	0	14.33	14.31	14.31	14.90	2
	64-QAM	1	0	14.32	14.28	14.18	14.90	2
		1	25	14.31	14.36	14.23	14.90	2
		1	49	14.20	14.17	14.19	14.90	2
		25	0	13.19	13.37	13.28	13.90	3
		25	12	13.27	13.19	13.18	13.90	3
		25	25	13.22	13.35	13.20	13.90	3
50		0	13.26	13.26	13.26	13.90	3	
Frequency (MHz)				1712.5	1745	1777.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				131997	132322	132647		
5	QPSK	1	0	16.35	16.25	16.37	16.90	0
		1	12	16.22	16.34	16.28	16.90	0
		1	24	16.32	16.18	16.22	16.90	0
		12	0	15.19	15.36	15.30	15.90	1
		12	6	15.30	15.27	15.18	15.90	1
		12	13	15.21	15.32	15.29	15.90	1
		25	0	15.35	15.21	15.23	15.90	1
	16-QAM	1	0	15.20	15.35	15.36	15.90	1
		1	12	15.31	15.34	15.24	15.90	1
		1	24	15.18	15.19	15.34	15.90	1
		12	0	14.29	14.17	14.32	14.90	2
		12	6	14.30	14.34	14.28	14.90	2
		12	13	14.27	14.18	14.26	14.90	2
		25	0	14.25	14.20	14.25	14.90	2
	64-QAM	1	0	14.18	14.36	14.19	14.90	2
		1	12	14.24	14.25	14.21	14.90	2
		1	24	14.19	14.27	14.30	14.90	2
		12	0	13.34	13.33	13.17	13.90	3
		12	6	13.27	13.30	13.19	13.90	3
		12	13	13.19	13.18	13.31	13.90	3
25		0	13.32	13.29	13.33	13.90	3	

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LTE Band 66								
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Frequency (MHz)			1711.5	1745	1778.5			
Channel			131987	132322	132657			
3	QPSK	1	0	16.24	16.29	16.27	16.90	0
		1	7	16.19	16.28	16.25	16.90	0
		1	14	16.25	16.19	16.35	16.90	0
		8	0	15.33	15.35	15.22	15.90	1
		8	4	15.18	15.21	15.33	15.90	1
		8	7	15.25	15.21	15.31	15.90	1
	16-QAM	15	0	15.26	15.28	15.26	15.90	1
		1	0	15.19	15.19	15.29	15.90	1
		1	7	15.33	15.21	15.35	15.90	1
		1	14	15.26	15.25	15.29	15.90	1
		8	0	14.26	14.29	14.36	14.90	2
		8	4	14.36	14.20	14.23	14.90	2
	64-QAM	8	7	14.22	14.33	14.32	14.90	2
		15	0	14.35	14.31	14.24	14.90	2
		1	0	14.32	14.26	14.35	14.90	2
		1	7	14.24	14.37	14.22	14.90	2
		1	14	14.36	14.23	14.34	14.90	2
		8	0	13.18	13.25	13.18	13.90	3
	Frequency (MHz)			1710.7	1745	1779.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel			131979	132322	132665		
	1.4	QPSK	1	0	16.32	16.19	16.26	16.90
1			2	16.18	16.29	16.26	16.90	0
1			5	16.28	16.19	16.32	16.90	0
3			0	16.27	16.23	16.33	16.90	0
3			2	16.27	16.36	16.29	16.90	0
3			3	16.33	16.30	16.20	16.90	0
16-QAM		6	0	15.32	15.36	15.23	15.90	1
		1	0	15.22	15.29	15.27	15.90	1
		1	2	15.31	15.36	15.36	15.90	1
		1	5	15.19	15.25	15.26	15.90	1
		3	0	15.33	15.29	15.21	15.90	1
		3	2	15.25	15.28	15.22	15.90	1
64-QAM		3	3	15.28	15.33	15.23	15.90	1
		6	0	14.19	14.26	14.20	14.90	2
		1	0	14.20	14.17	14.34	14.90	2
		1	2	14.29	14.24	14.34	14.90	2
		1	5	14.31	14.24	14.34	14.90	2
		3	0	14.26	14.19	14.26	14.90	2
Frequency (MHz)			1710.7	1745	1779.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			131979	132322	132665			
1.4	QPSK	3	2	14.17	14.34	14.28	14.90	2
		3	3	14.27	14.27	14.30	14.90	2
		6	0	13.31	13.35	13.21	13.90	3

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### 1.3.6 Sensor on-LTE TDD

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

LTE Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				2580	2595	2610			
Channel				37850	38000	38150			
20	QPSK	1	0	16.59	16.68	16.78	17.30	0	
		1	50	16.54	16.55	16.46	17.30	0	
		1	99	16.54	16.52	16.41	17.30	0	
		50	0	15.58	15.53	15.42	16.30	1	
		50	25	15.48	15.41	15.50	16.30	1	
		50	50	15.52	15.55	15.46	16.30	1	
	16-QAM	100	0	15.40	15.58	15.40	16.30	1	
		1	0	15.41	15.57	15.54	16.30	1	
		1	50	15.52	15.49	15.45	16.30	1	
		1	99	15.48	15.48	15.44	16.30	1	
		50	0	14.49	14.50	14.39	15.30	2	
		50	25	14.46	14.46	14.54	15.30	2	
	64-QAM	50	50	14.48	14.57	14.52	15.30	2	
		100	0	14.51	14.55	14.53	15.30	2	
		1	0	14.43	14.41	14.47	15.30	2	
		1	50	14.40	14.59	14.57	15.30	2	
		1	99	14.53	14.49	14.49	15.30	2	
		50	0	13.58	13.48	13.48	14.30	3	
	Frequency (MHz)				2577.5	2595	2612.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				37825	38000	38175		
	15	QPSK	1	0	16.50	16.43	16.49	17.30	0
1			36	16.54	16.46	16.40	17.30	0	
1			74	16.48	16.40	16.50	17.30	0	
36			0	15.48	15.58	15.52	16.30	1	
36			18	15.41	15.40	15.40	16.30	1	
36			37	15.41	15.46	15.50	16.30	1	
16-QAM		75	0	15.54	15.41	15.52	16.30	1	
		1	0	15.59	15.58	15.49	16.30	1	
		1	36	15.52	15.40	15.39	16.30	1	
		1	74	15.50	15.40	15.42	16.30	1	
		36	0	14.47	14.52	14.42	15.30	2	
		36	18	14.42	14.51	14.42	15.30	2	
64-QAM		36	37	14.58	14.52	14.45	15.30	2	
		75	0	14.42	14.41	14.53	15.30	2	
		1	0	14.53	14.39	14.48	15.30	2	
		1	36	14.50	14.55	14.46	15.30	2	
		1	74	14.57	14.42	14.59	15.30	2	
		36	0	13.44	13.54	13.40	14.30	3	
Frequency (MHz)				2577.5	2595	2612.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				37825	38000	38175			
15	64-QAM	36	18	13.51	13.57	13.42	14.30	3	
		36	37	13.58	13.57	13.49	14.30	3	
		75	0	13.54	13.57	13.42	14.30	3	

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LTE Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2575	2595	2615			
Channel			37800	38000	38200			
10	QPSK	1	0	16.53	16.55	16.52	17.30	0
		1	25	16.58	16.48	16.51	17.30	0
		1	49	16.45	16.58	16.49	17.30	0
		25	0	15.45	15.52	15.40	16.30	1
		25	12	15.46	15.59	15.43	16.30	1
		25	25	15.48	15.39	15.49	16.30	1
	16-QAM	50	0	15.45	15.46	15.49	16.30	1
		1	0	15.43	15.45	15.58	16.30	1
		1	25	15.43	15.56	15.49	16.30	1
		1	49	15.49	15.46	15.55	16.30	1
		25	0	14.42	14.42	14.44	15.30	2
		25	12	14.48	14.56	14.59	15.30	2
	64-QAM	25	25	14.56	14.50	14.44	15.30	2
		50	0	14.58	14.59	14.52	15.30	2
		1	0	14.54	14.57	14.44	15.30	2
		1	25	14.59	14.54	14.54	15.30	2
		1	49	14.50	14.57	14.49	15.30	2
		25	0	13.49	13.40	13.40	14.30	3
		25	12	13.46	13.51	13.49	14.30	3
		25	25	13.42	13.39	13.42	14.30	3
Frequency (MHz)			2572.5	2595	2617.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel			37775	38000	38225			
5	QPSK	1	0	16.39	16.53	16.39	17.30	0
		1	12	16.51	16.42	16.45	17.30	0
		1	24	16.49	16.53	16.56	17.30	0
		12	0	15.53	15.49	15.41	16.30	1
		12	6	15.43	15.56	15.43	16.30	1
		12	13	15.58	15.51	15.51	16.30	1
	16-QAM	25	0	15.49	15.45	15.50	16.30	1
		1	0	15.42	15.55	15.49	16.30	1
		1	12	15.56	15.58	15.54	16.30	1
		1	24	15.49	15.42	15.56	16.30	1
		12	0	14.54	14.50	14.40	15.30	2
		12	6	14.54	14.49	14.50	15.30	2
	64-QAM	12	13	14.46	14.54	14.55	15.30	2
		25	0	14.51	14.46	14.47	15.30	2
		1	0	14.46	14.59	14.53	15.30	2
		1	12	14.43	14.48	14.55	15.30	2
		1	24	14.50	14.46	14.59	15.30	2
		12	0	13.42	13.59	13.44	14.30	3
		12	6	13.53	13.51	13.57	14.30	3
		12	13	13.50	13.47	13.40	14.30	3
25	0	13.49	13.42	13.42	14.30	3		

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LTE Band 41											
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
Channel				39750	40185	40620	41055	41490			
20	QPSK	1	0	16.92	16.83	16.94	16.88	16.89	17.30	0	
		1	50	16.68	16.72	16.70	16.77	16.79	17.30	0	
		1	99	16.72	16.72	16.64	16.67	16.72	17.30	0	
		50	0	15.76	15.76	15.82	15.75	15.76	16.30	1	
		50	25	15.64	15.77	15.75	15.76	15.75	16.30	1	
		50	50	15.80	15.69	15.64	15.74	15.68	16.30	1	
	16-QAM	100	0	15.65	15.72	15.75	15.68	15.81	16.30	1	
		1	0	15.78	15.74	15.77	15.68	15.74	16.30	1	
		1	50	15.68	15.75	15.72	15.63	15.70	16.30	1	
		1	99	15.73	15.66	15.81	15.66	15.74	16.30	1	
		50	0	14.78	14.74	14.77	14.69	14.70	15.30	2	
		50	25	14.69	14.80	14.82	14.78	14.68	15.30	2	
	64-QAM	50	50	14.82	14.77	14.64	14.70	14.77	15.30	2	
		100	0	14.64	14.64	14.79	14.68	14.75	15.30	2	
		1	0	14.82	14.79	14.78	14.65	14.67	15.30	2	
		1	50	14.74	14.72	14.75	14.75	14.73	15.30	2	
		1	99	14.70	14.74	14.82	14.67	14.79	15.30	2	
		50	0	13.65	13.80	13.82	13.68	13.78	14.30	3	
	Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				39725	40173	40620	41068	41515		
	15	QPSK	1	0	16.74	16.82	16.81	16.73	16.67	17.30	0
			1	36	16.82	16.67	16.65	16.70	16.79	17.30	0
			1	74	16.83	16.82	16.75	16.80	16.73	17.30	0
			36	0	15.73	15.70	15.83	15.73	15.75	16.30	1
36			18	15.70	15.64	15.74	15.66	15.83	16.30	1	
36			37	15.82	15.63	15.66	15.72	15.73	16.30	1	
16-QAM		75	0	15.75	15.72	15.69	15.64	15.67	16.30	1	
		1	0	15.67	15.71	15.64	15.72	15.71	16.30	1	
		1	36	15.77	15.75	15.83	15.69	15.73	16.30	1	
		1	74	15.74	15.77	15.65	15.69	15.71	16.30	1	
		36	0	14.80	14.66	14.65	14.80	14.78	15.30	2	
		36	18	14.82	14.74	14.80	14.63	14.69	15.30	2	
64-QAM		36	37	14.82	14.73	14.70	14.71	14.72	15.30	2	
		75	0	14.81	14.77	14.70	14.82	14.76	15.30	2	
		1	0	14.68	14.73	14.70	14.70	14.81	15.30	2	
		1	36	14.74	14.75	14.76	14.72	14.64	15.30	2	
		1	74	14.73	14.67	14.66	14.75	14.76	15.30	2	
		36	0	13.73	13.82	13.76	13.82	13.70	14.30	3	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				39725	40173	40620	41068	41515			
15		QPSK	36	18	15.70	15.64	15.74	15.66	15.83	16.30	1
			36	37	15.82	15.63	15.66	15.72	15.73	16.30	1
			75	0	15.75	15.72	15.69	15.64	15.67	16.30	1
			1	0	15.67	15.71	15.64	15.72	15.71	16.30	1
	16-QAM	1	36	15.77	15.75	15.83	15.69	15.73	16.30	1	
		1	74	15.74	15.77	15.65	15.69	15.71	16.30	1	
		36	0	14.80	14.66	14.65	14.80	14.78	15.30	2	
		36	18	14.82	14.74	14.80	14.63	14.69	15.30	2	
	64-QAM	36	37	14.82	14.73	14.70	14.71	14.72	15.30	2	
		75	0	14.81	14.77	14.70	14.82	14.76	15.30	2	
		1	0	14.68	14.73	14.70	14.70	14.81	15.30	2	
		1	36	14.74	14.75	14.76	14.72	14.64	15.30	2	
64-QAM	1	74	14.73	14.67	14.66	14.75	14.76	15.30	2		
	36	0	13.73	13.82	13.76	13.82	13.70	14.30	3		
	36	18	13.70	13.83	13.82	13.68	13.82	14.30	3		
	36	37	13.82	13.71	13.76	13.72	13.71	14.30	3		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
Channel				39725	40173	40620	41068	41515			
15	QPSK	75	0	13.81	13.68	13.74	13.64	13.82	14.30	3	
		1	0	13.81	13.68	13.74	13.64	13.82	14.30	3	
		1	36	14.74	14.75	14.76	14.72	14.64	15.30	2	
		1	74	14.73	14.67	14.66	14.75	14.76	15.30	2	
	16-QAM	36	0	13.73	13.82	13.76	13.82	13.70	14.30	3	
		36	18	13.70	13.83	13.82	13.68	13.82	14.30	3	
		36	37	13.82	13.71	13.76	13.72	13.71	14.30	3	
		75	0	13.81	13.68	13.74	13.64	13.82	14.30	3	
	Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				39725	40173	40620	41068	41515		

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LTE Band 41										
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
Channel				39700	40160	40620	41080	41540		
10	QPSK	1	0	16.74	16.68	16.83	16.69	16.65	17.30	0
		1	25	16.76	16.71	16.65	16.79	16.69	17.30	0
		1	49	16.77	16.78	16.71	16.71	16.79	17.30	0
		25	0	15.78	15.69	15.69	15.79	15.72	16.30	1
		25	12	15.75	15.72	15.71	15.78	15.66	16.30	1
		25	25	15.66	15.63	15.72	15.65	15.67	16.30	1
	16-QAM	50	0	15.64	15.79	15.77	15.76	15.65	16.30	1
		1	0	15.82	15.74	15.73	15.82	15.75	16.30	1
		1	25	15.64	15.79	15.74	15.78	15.67	16.30	1
		1	49	15.72	15.71	15.71	15.80	15.78	16.30	1
		25	0	14.67	14.64	14.78	14.79	14.82	15.30	2
		25	12	14.83	14.71	14.75	14.77	14.74	15.30	2
	64-QAM	25	25	14.74	14.72	14.76	14.74	14.81	15.30	2
		50	0	14.83	14.63	14.68	14.70	14.75	15.30	2
		1	0	14.71	14.65	14.65	14.64	14.69	15.30	2
		1	25	14.63	14.82	14.80	14.76	14.66	15.30	2
		1	49	14.72	14.63	14.78	14.75	14.68	15.30	2
		25	0	13.82	13.79	13.76	13.76	13.79	14.30	3
		25	12	13.74	13.66	13.75	13.67	13.65	14.30	3
		25	25	13.81	13.81	13.69	13.68	13.83	14.30	3
Frequency (MHz)				2498.5	2547.8	2593	2640.3	2687.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				39675	40148	40620	41093	41565		
5	QPSK	1	0	16.69	16.65	16.74	16.80	16.64	17.30	0
		1	12	16.79	16.73	16.74	16.75	16.64	17.30	0
		1	24	16.76	16.72	16.75	16.80	16.75	17.30	0
		12	0	15.71	15.80	15.66	15.71	15.68	16.30	1
		12	6	15.65	15.77	15.77	15.75	15.66	16.30	1
		12	13	15.68	15.81	15.67	15.74	15.68	16.30	1
	16-QAM	25	0	15.65	15.81	15.64	15.73	15.79	16.30	1
		1	0	15.73	15.72	15.74	15.66	15.78	16.30	1
		1	12	15.76	15.77	15.80	15.67	15.64	16.30	1
		1	24	15.74	15.65	15.63	15.67	15.71	16.30	1
		12	0	14.66	14.64	14.73	14.83	14.75	15.30	2
		12	6	14.75	14.73	14.73	14.69	14.64	15.30	2
	64-QAM	12	13	14.70	14.66	14.75	14.78	14.82	15.30	2
		25	0	14.81	14.75	14.65	14.83	14.82	15.30	2
		1	0	14.66	14.80	14.64	14.73	14.68	15.30	2
		1	12	14.82	14.70	14.76	14.66	14.78	15.30	2
		1	24	14.81	14.77	14.71	14.83	14.76	15.30	2
		12	0	13.76	13.73	13.68	13.63	13.75	14.30	3
12	6	13.81	13.83	13.69	13.65	13.77	14.30	3		
12	13	13.73	13.74	13.67	13.77	13.79	14.30	3		
25	0	13.78	13.82	13.70	13.76	13.77	14.30	3		

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

Band	Antenna	SISO		MIMO
		TX1	TX2	TX1 + TX2
WLAN802.11b		V	V	-
WLAN802.11g		V	V	-
WLAN802.11n(20M)		V	V	V
WLAN802.11n(40M)		V	V	V
WLAN802.11ac(20M)		V	V	V
WLAN802.11ac(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
WLAN802.11ax(20M) 5G		V	V	V
WLAN802.11ax(40M) 5G		V	V	V
WLAN802.11ax(80M) 5G		V	V	V
WLAN802.11ax(160M) 5G		V	V	V

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**Sensor off-Hotspot**
**TX1**

TX1 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	10.50	9.49
		2	2417		10.50	9.30
		6	2437		10.50	9.53
		10	2457		10.50	9.26
		11	2462		10.50	9.63
		12	2467		10.50	9.27
	802.11g	6Mbps	1	2412	10.50	9.29
			2	2417	10.50	9.28
			6	2437	10.50	9.41
			10	2457	10.50	9.30
			11	2462	10.50	9.17
			12	2467	10.50	9.25
	802.11n20-HT0	MCS0	1	2412	10.50	9.16
			2	2417	10.50	9.25
			6	2437	10.50	9.25
			10	2457	10.50	9.18
			11	2462	10.50	9.24
			12	2467	10.50	9.38
	802.11ac20-HT0	MCS0	1	2412	10.50	9.30
			2	2417	10.50	9.30
			6	2437	10.50	9.32
			10	2457	10.50	9.28
			11	2462	10.50	9.34
			12	2467	10.50	9.27
	802.11n40-HT0	MCS0	3	2422	10.50	9.31
			4	2427	10.50	9.33
			6	2437	10.50	9.41
			8	2447	10.50	9.17
			9	2452	10.50	9.30
			10	2457	10.50	9.34
	802.11ac40-HT0	MCS0	11	2462	9.75	9.19
			3	2422	10.50	9.31
			4	2427	10.50	9.43
			6	2437	10.50	9.56
			8	2447	10.50	9.28
			9	2452	10.50	9.30
			10	2457	10.50	9.27
			11	2462	9.75	9.26

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TX1 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	9.00	8.18
		40	5200		9.00	8.19
		44	5220		9.00	8.16
		48	5240		9.00	8.04
	802.11n20-HT0	36	5180	MCS0	9.00	8.29
		40	5200		9.00	8.07
		44	5220		9.00	8.26
		48	5240		9.00	8.18
	802.11ac20-VHT0	36	5180	MCS0	9.00	8.13
		40	5200		9.00	8.05
		44	5220		9.00	8.12
		48	5240		9.00	8.17
	802.11ax20-HE0	36	5180	MCS0	9.00	8.07
		40	5200		9.00	8.23
		44	5220		9.00	8.12
		48	5240		9.00	8.11
	802.11n40-HT0	38	5190	MCS0	9.00	8.20
		46	5230		9.00	8.14
	802.11ac40-VHT0	38	5190	MCS0	9.00	8.19
		46	5230		9.00	8.19
802.11ax40-HE0	38	5190	MCS0	9.00	8.02	
	46	5230		9.00	8.30	
802.11ac80-VHT0	42	5210	MCS0	9.00	8.42	
802.11ax80-HE0	42	5210	MCS0	9.00	8.24	
802.11ac160-VHT0	50	5250	MCS0	9.00	8.81	
802.11ax160-HE0	50	5250	MCS0	9.00	8.52	

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TX1 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	9.00	8.23
		56	5280		9.00	8.21
		60	5300		9.00	8.11
		64	5320		9.00	8.17
	802.11n20-HT0	52	5260	MCS0	9.00	8.20
		56	5280		9.00	8.17
		60	5300		9.00	8.20
		64	5320		9.00	8.17
	802.11ac20-VHT0	52	5260	MCS0	9.00	8.01
		56	5280		9.00	8.01
		60	5300		9.00	8.10
		64	5320		9.00	8.09
	802.11ax20-HE0	52	5260	MCS0	9.00	8.15
		56	5280		9.00	8.19
		60	5300		9.00	8.07
		64	5320		9.00	8.06
	802.11n40-HT0	54	5270	MCS0	9.00	8.24
		62	5310		9.00	8.19
	802.11ac40-VHT0	54	5270	MCS0	9.00	8.18
		62	5310		9.00	8.10
802.11ax40-HE0	54	5270	MCS0	9.00	8.18	
	62	5310		9.00	8.01	
802.11ac80-VHT0	58	5290	MCS0	9.00	8.45	
802.11ax80-HE0	58	5290	MCS0	9.00	8.33	

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TX1 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	9.00	8.13
		104	5520		9.00	8.22
		116	5580		9.00	8.17
		120	5600		9.00	8.14
		136	5680		9.00	8.11
		140	5700		9.00	8.00
		144	5720		9.00	8.09
	802.11n20-HT0	100	5500	MCS0	9.00	8.05
		104	5520		9.00	7.98
		116	5580		9.00	7.98
		120	5600		9.00	8.10
		136	5680		9.00	8.08
		140	5700		9.00	8.02
	802.11ac20-VHT0	100	5500	MCS0	9.00	8.15
		104	5520		9.00	8.02
		116	5580		9.00	7.98
		120	5600		9.00	8.16
		136	5680		9.00	8.18
		140	5700		9.00	8.08
	802.11ax20-HE0	100	5500	MCS0	9.00	7.99
		104	5520		9.00	7.95
		116	5580		9.00	7.90
		120	5600		9.00	8.01
		136	5680		9.00	8.03
		140	5700		9.00	7.96
	802.11n40-HT0	100	5500	MCS0	9.00	8.04
		104	5520		9.00	7.96
		116	5580		9.00	7.96
		120	5600		9.00	8.03
		136	5680		9.00	7.96
		140	5700		9.00	7.96
	802.11ac40-VHT0	102	5510	MCS0	9.00	8.27
		110	5550		9.00	8.39
		118	5590		9.00	8.32
		134	5670		9.00	8.06
		142	5710		9.00	8.16
	802.11ax40-HE0	102	5510	MCS0	9.00	8.10
		110	5550		9.00	8.11
		118	5590		9.00	8.08
		134	5670		9.00	8.08
		142	5710		9.00	8.16
	802.11ac80-VHT0	102	5510	MCS0	9.00	8.19
		110	5550		9.00	8.12
		118	5590		9.00	8.10
		134	5670		9.00	8.27
		142	5710		9.00	8.05
	802.11ax80-HE0	106	5530	MCS0	9.00	7.96
		122	5610		9.00	7.97
		138	5690		9.00	8.14
	802.11ac160-VHT0	106	5530	MCS0	9.00	8.12
		122	5610		9.00	8.22
		138	5690		9.00	8.15
802.11ax160-HE0	114	5570	MCS0	9.00	8.55	
802.11ac160-VHT0	114	5570	MCS0	9.00	8.17	

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TX1 Antenna						
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5800 MHz	802.11a	149	5745	6Mbps	9.00	8.20
		157	5785		9.00	8.22
		165	5825		9.00	8.18
	802.11n20-HT0	149	5745	MCS0	9.00	8.15
		157	5785		9.00	8.16
		165	5825		9.00	8.19
	802.11ac20-VHT0	149	5745	MCS0	9.00	8.17
		157	5785		9.00	8.22
		165	5825		9.00	8.14
	802.11ax20-HE0	149	5745	MCS0	9.00	8.20
		157	5785		9.00	8.15
		165	5825		9.00	8.13
	802.11n40-HT0	151	5755	MCS0	9.00	8.07
		159	5795		9.00	8.12
	802.11ac40-VHT0	151	5755	MCS0	9.00	8.12
		159	5795		9.00	8.09
802.11ax40-HE0	151	5755	MCS0	9.00	8.11	
	159	5795		9.00	8.19	
802.11ac80-VHT0	155	5775	MCS0	9.00	8.32	
802.11ax80-HE0	155	5775	MCS0	9.00	8.05	

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**TX2**

TX2 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	10.50	9.26
		2	2417		10.50	9.22
		6	2437		10.50	9.37
		10	2457		10.50	9.24
		11	2462		10.50	9.57
		12	2467		10.50	9.33
	802.11g	6Mbps	1	2412	10.50	9.34
			2	2417	10.50	9.29
			6	2437	10.50	9.38
			10	2457	10.50	9.31
			11	2462	10.50	9.28
			12	2467	10.50	9.25
	802.11n20-HT0	MCS0	1	2412	10.50	9.30
			2	2417	10.50	9.18
			6	2437	10.50	9.36
			10	2457	10.50	9.20
			11	2462	10.50	9.29
			12	2467	10.50	9.31
	802.11ac20-HT0	MCS0	1	2412	10.50	9.31
			2	2417	10.50	9.36
			6	2437	10.50	9.39
			10	2457	10.50	9.18
			11	2462	10.50	9.29
			12	2467	10.50	9.32
	802.11n40-HT0	MCS0	13	2472	10.50	9.19
			3	2422	10.50	9.20
			4	2427	10.50	9.21
			6	2437	10.50	9.39
			8	2447	10.50	9.29
			9	2452	10.50	9.18
	802.11ac40-HT0	MCS0	10	2457	10.50	9.38
			11	2462	9.75	9.03
			3	2422	10.50	9.31
			4	2427	10.50	9.52
			6	2437	10.50	9.49
			8	2447	10.50	9.27
			9	2452	10.50	9.39
			10	2457	10.50	9.26
			11	2462	9.75	9.07

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TX2 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	9.00	8.13
		40	5200		9.00	8.21
		44	5220		9.00	8.25
		48	5240		9.00	8.13
	802.11n20-HT0	36	5180	MCS0	9.00	8.25
		40	5200		9.00	8.17
		44	5220		9.00	8.18
		48	5240		9.00	8.21
	802.11ac20-VHT0	36	5180	MCS0	9.00	8.09
		40	5200		9.00	8.09
		44	5220		9.00	8.03
		48	5240		9.00	8.07
	802.11ax20-HE0	36	5180	MCS0	9.00	8.06
		40	5200		9.00	8.25
		44	5220		9.00	8.07
		48	5240		9.00	8.16
	802.11n40-HT0	38	5190	MCS0	9.00	8.21
		46	5230		9.00	8.11
	802.11ac40-VHT0	38	5190	MCS0	9.00	8.12
		46	5230		9.00	8.14
802.11ax40-HE0	38	5190	MCS0	9.00	8.09	
	46	5230		9.00	8.20	
802.11ac80-VHT0	42	5210	MCS0	9.00	8.41	
802.11ax80-HE0	42	5210	MCS0	9.00	8.37	
802.11ac160-VHT0	50	5250	MCS0	9.00	8.81	
802.11ax160-HE0	50	5250	MCS0	9.00	8.18	

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TX2 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	9.00	8.12
		56	5280		9.00	8.20
		60	5300		9.00	8.21
		64	5320		9.00	8.08
	802.11n20-HT0	52	5260	MCS0	9.00	8.20
		56	5280		9.00	8.20
		60	5300		9.00	8.23
		64	5320		9.00	8.21
	802.11ac20-VHT0	52	5260	MCS0	9.00	8.06
		56	5280		9.00	8.13
		60	5300		9.00	8.13
		64	5320		9.00	8.11
	802.11ax20-HE0	52	5260	MCS0	9.00	8.06
		56	5280		9.00	8.12
		60	5300		9.00	8.19
		64	5320		9.00	8.04
	802.11n40-HT0	54	5270	MCS0	9.00	8.19
		62	5310		9.00	8.17
	802.11ac40-VHT0	54	5270	MCS0	9.00	8.06
		62	5310		9.00	8.20
802.11ax40-HE0	54	5270	MCS0	9.00	8.15	
	62	5310		9.00	8.11	
802.11ac80-VHT0	58	5290	MCS0	9.00	8.33	
802.11ax80-HE0	58	5290	MCS0	9.00	8.02	

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TX2 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	9.00	8.26
		104	5520		9.00	8.24
		116	5580		9.00	8.25
		120	5600		9.00	8.18
		136	5680		9.00	8.30
		140	5700		9.00	8.20
		144	5720		9.00	8.28
	802.11n20-HT0	100	5500	MCS0	9.00	8.24
		104	5520		9.00	8.15
		116	5580		9.00	8.15
		120	5600		9.00	8.17
		136	5680		9.00	8.17
		140	5700		9.00	8.18
	802.11ac20-VHT0	100	5500	MCS0	9.00	8.19
		104	5520		9.00	8.18
		116	5580		9.00	8.25
		120	5600		9.00	8.25
		136	5680		9.00	8.20
		140	5700		9.00	8.25
	802.11ax20-HE0	100	5500	MCS0	9.00	8.12
		104	5520		9.00	8.07
		116	5580		9.00	8.15
		120	5600		9.00	8.19
		136	5680		9.00	8.12
		140	5700		9.00	8.19
	802.11n40-HT0	102	5510	MCS0	9.00	8.39
		110	5550		9.00	8.41
		118	5590		9.00	8.44
		134	5670		9.00	8.25
		142	5710		9.00	8.17
	802.11ac40-VHT0	102	5510	MCS0	9.00	8.11
		110	5550		9.00	8.12
		118	5590		9.00	8.17
		134	5670		9.00	8.19
	802.11ax40-HE0	102	5510	MCS0	9.00	8.21
		110	5550		9.00	8.23
		118	5590		9.00	8.24
		134	5670		9.00	8.28
		142	5710		9.00	8.22
	802.11ac80-VHT0	106	5530	MCS0	9.00	8.15
		122	5610		9.00	8.13
		138	5690		9.00	8.26
	802.11ax80-HE0	106	5530	MCS0	9.00	8.19
		122	5610		9.00	8.22
		138	5690		9.00	8.20
	802.11ac160-VHT0	114	5570	MCS0	9.00	8.47
	802.11ax160-HE0	114	5570	MCS0	9.00	8.27

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TX2 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	9.00	8.26
		157	5785		9.00	8.24
		165	5825		9.00	8.27
	802.11n20-HT0	149	5745	MCS0	9.00	8.19
		157	5785		9.00	8.18
		165	5825		9.00	8.22
	802.11ac20-VHT0	149	5745	MCS0	9.00	8.24
		157	5785		9.00	8.26
		165	5825		9.00	8.17
	802.11ax20-HE0	149	5745	MCS0	9.00	8.21
		157	5785		9.00	8.22
		165	5825		9.00	8.16
	802.11n40-HT0	151	5755	MCS0	9.00	8.11
		159	5795		9.00	8.26
	802.11ac40-VHT0	151	5755	MCS0	9.00	8.20
		159	5795		9.00	8.16
802.11ax40-HE0	151	5755	MCS0	9.00	8.21	
	159	5795		9.00	8.25	
802.11ac80-VHT0	155	5775	MCS0	9.00	8.33	
802.11ax80-HE0	155	5775	MCS0	9.00	8.15	

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## Sensor on-Hotspot

### TX1

TX1 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	8.00	7.10
		2	2417		8.00	6.97
		6	2437		8.00	7.13
		10	2457		8.00	7.06
		11	2462		8.00	7.11
		12	2467		8.00	7.05
	802.11g	6Mbps	1	2412	8.00	7.09
			2	2417	8.00	7.01
			6	2437	8.00	7.06
			10	2457	8.00	7.01
			11	2462	8.00	6.95
			12	2467	8.00	6.92
	802.11n20-HT0	MCS0	1	2412	8.00	7.12
			2	2417	8.00	7.03
			6	2437	8.00	7.05
			10	2457	8.00	7.04
			11	2462	8.00	7.04
			12	2467	8.00	7.05
	802.11ac20-HT0	MCS0	1	2412	8.00	7.03
			2	2417	8.00	6.93
			6	2437	8.00	7.00
			10	2457	8.00	7.06
			11	2462	8.00	7.04
			12	2467	8.00	7.05
	802.11n40-HT0	MCS0	3	2422	8.00	7.21
			4	2427	8.00	7.22
			6	2437	8.00	7.21
			8	2447	8.00	7.05
			9	2452	8.00	6.95
			10	2457	8.00	7.02
	802.11ac40-HT0	MCS0	11	2462	8.00	6.92
			3	2422	8.00	7.04
			4	2427	8.00	7.00
			6	2437	8.00	6.96
			8	2447	8.00	6.97
			9	2452	8.00	7.07
			10	2457	8.00	6.98
			11	2462	8.00	7.09

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TX1 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	7.00	6.57
		40	5200		7.00	6.58
		44	5220		7.00	6.57
		48	5240		7.00	6.48
	802.11n20-HT0	36	5180	MCS0	7.00	6.63
		40	5200		7.00	6.49
		44	5220		7.00	6.58
		48	5240		7.00	6.57
	802.11ac20-VHT0	36	5180	MCS0	7.00	6.56
		40	5200		7.00	6.56
		44	5220		7.00	6.49
		48	5240		7.00	6.46
	802.11ax20-HE0	36	5180	MCS0	7.00	6.48
		40	5200		7.00	6.53
		44	5220		7.00	6.55
		48	5240		7.00	6.46
	802.11n40-HT0	38	5190	MCS0	7.00	6.61
		46	5230		7.00	6.53
	802.11ac40-VHT0	38	5190	MCS0	7.00	6.52
		46	5230		7.00	6.52
802.11ax40-HE0	38	5190	MCS0	7.00	6.44	
	46	5230		7.00	6.47	
802.11ac80-VHT0	42	5210	MCS0	7.00	6.52	
802.11ax80-HE0	42	5210	MCS0	7.00	6.50	
802.11ac160-VHT0	50	5250	MCS0	7.00	6.93	
802.11ax160-HE0	50	5250	MCS0	7.00	6.44	

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TX1 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	7.00	6.52
		56	5280		7.00	6.59
		60	5300		7.00	6.54
		64	5320		7.00	6.47
	802.11n20-HT0	52	5260	MCS0	7.00	6.57
		56	5280		7.00	6.55
		60	5300		7.00	6.58
		64	5320		7.00	6.59
	802.11ac20-VHT0	52	5260	MCS0	7.00	6.51
		56	5280		7.00	6.58
		60	5300		7.00	6.58
		64	5320		7.00	6.51
	802.11ax20-HE0	52	5260	MCS0	7.00	6.41
		56	5280		7.00	6.49
		60	5300		7.00	6.60
		64	5320		7.00	6.50
	802.11n40-HT0	54	5270	MCS0	7.00	6.37
		62	5310		7.00	6.17
	802.11ac40-VHT0	54	5270	MCS0	7.00	6.47
		62	5310		7.00	6.40
802.11ax40-HE0	54	5270	MCS0	7.00	6.54	
	62	5310		7.00	6.53	
802.11ac80-VHT0	58	5290	MCS0	7.00	6.56	
802.11ax80-HE0	58	5290	MCS0	7.00	6.28	

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TX1 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	7.00	6.33
		104	5520		7.00	6.30
		116	5580		7.00	6.30
		120	5600		7.00	6.35
		136	5680		7.00	6.25
		140	5700		7.00	6.41
		144	5720		7.00	6.23
	802.11n20-HT0	100	5500	MCS0	7.00	6.38
		104	5520		7.00	6.35
		116	5580		7.00	6.27
		120	5600		7.00	6.29
		136	5680		7.00	6.27
		140	5700		7.00	6.32
	802.11ac20-VHT0	100	5500	MCS0	7.00	6.24
		104	5520		7.00	6.29
		116	5580		7.00	6.28
		120	5600		7.00	6.26
		136	5680		7.00	6.27
		140	5700		7.00	6.28
	802.11ax20-HE0	100	5500	MCS0	7.00	6.36
		104	5520		7.00	6.17
		116	5580		7.00	6.32
		120	5600		7.00	6.28
		136	5680		7.00	6.34
		140	5700		7.00	6.35
	802.11n40-HT0	102	5510	MCS0	7.00	6.32
		110	5550		7.00	6.31
		118	5590		7.00	6.23
		134	5670		7.00	6.30
		142	5710		7.00	6.27
		144	5720		7.00	6.33
	802.11ac40-VHT0	102	5510	MCS0	7.00	6.35
		110	5550		7.00	6.38
		118	5590		7.00	6.29
		134	5670		7.00	6.37
		142	5710		7.00	6.15
	802.11ax40-HE0	102	5510	MCS0	7.00	6.32
		110	5550		7.00	6.26
		118	5590		7.00	6.27
		134	5670		7.00	6.26
		142	5710		7.00	6.30
	802.11ac80-VHT0	106	5530	MCS0	7.00	6.01
		122	5610		7.00	6.12
		138	5690		7.00	6.14
	802.11ax80-HE0	106	5530	MCS0	7.00	6.28
		122	5610		7.00	6.28
		138	5690		7.00	6.34
	802.11ac160-VHT0	114	5570	MCS0	7.00	6.51
	802.11ax160-HE0	114	5570	MCS0	7.00	6.30

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TX1 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	7.00	6.23
		157	5785		7.00	6.22
		165	5825		7.00	6.29
	802.11n20-HT0	149	5745	MCS0	7.00	6.26
		157	5785		7.00	6.31
		165	5825		7.00	6.25
	802.11ac20-VHT0	149	5745	MCS0	7.00	6.28
		157	5785		7.00	6.35
		165	5825		7.00	6.33
	802.11ax20-HE0	149	5745	MCS0	7.00	6.15
		157	5785		7.00	6.31
		165	5825		7.00	6.22
	802.11n40-HT0	151	5755	MCS0	7.00	6.17
		159	5795		7.00	6.14
	802.11ac40-VHT0	151	5755	MCS0	7.00	6.28
		159	5795		7.00	6.29
802.11ax40-HE0	151	5755	MCS0	7.00	6.31	
	159	5795		7.00	6.33	
802.11ac80-VHT0	155	5775	MCS0	7.00	6.38	
802.11ax80-HE0	155	5775	MCS0	7.00	6.25	

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**TX2**

TX2 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	8.00	6.67
		2	2417		8.00	7.12
		6	2437		8.00	6.94
		10	2457		8.00	7.07
		11	2462		8.00	7.02
		12	2467		8.00	7.07
	802.11g	6Mbps	1	2412	8.00	7.13
			2	2417	8.00	7.09
			6	2437	8.00	7.08
			10	2457	8.00	7.09
			11	2462	8.00	7.04
			12	2467	8.00	6.98
	802.11n20-HT0	MCS0	1	2412	8.00	7.13
			2	2417	8.00	7.04
			6	2437	8.00	7.12
			10	2457	8.00	7.07
			11	2462	8.00	7.10
			12	2467	8.00	7.08
	802.11ac20-HT0	MCS0	1	2412	8.00	7.05
			2	2417	8.00	6.99
			6	2437	8.00	7.07
			10	2457	8.00	7.08
			11	2462	8.00	7.06
			12	2467	8.00	7.12
	802.11n40-HT0	MCS0	3	2422	8.00	7.29
			4	2427	8.00	7.28
			6	2437	8.00	7.27
			8	2447	8.00	7.10
			9	2452	8.00	6.99
			10	2457	8.00	7.03
	802.11ac40-HT0	MCS0	11	2462	8.00	7.00
			3	2422	8.00	7.08
			4	2427	8.00	7.01
			6	2437	8.00	7.06
			8	2447	8.00	7.03
			9	2452	8.00	7.10
			10	2457	8.00	7.06
			11	2462	8.00	7.10

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TX2 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	7.00	6.49
		40	5200		7.00	6.57
		44	5220		7.00	6.50
		48	5240		7.00	6.52
	802.11n20-HT0	36	5180	MCS0	7.00	6.55
		40	5200		7.00	6.49
		44	5220		7.00	6.57
		48	5240		7.00	6.62
	802.11ac20-VHT0	36	5180	MCS0	7.00	6.59
		40	5200		7.00	6.49
		44	5220		7.00	6.51
		48	5240		7.00	6.53
	802.11ax20-HE0	36	5180	MCS0	7.00	6.42
		40	5200		7.00	6.47
		44	5220		7.00	6.61
		48	5240		7.00	6.52
	802.11n40-HT0	38	5190	MCS0	7.00	6.56
		46	5230		7.00	6.55
	802.11ac40-VHT0	38	5190	MCS0	7.00	6.52
		46	5230		7.00	6.52
802.11ax40-HE0	38	5190	MCS0	7.00	6.40	
	46	5230		7.00	6.49	
802.11ac80-VHT0	42	5210	MCS0	7.00	6.58	
802.11ax80-HE0	42	5210	MCS0	7.00	6.48	
802.11ac160-VHT0	50	5250	MCS0	7.00	6.81	
802.11ax160-HE0	50	5250	MCS0	7.00	6.41	

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TX2 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	7.00	6.56
		56	5280		7.00	6.57
		60	5300		7.00	6.52
		64	5320		7.00	6.52
	802.11n20-HT0	52	5260	MCS0	7.00	6.57
		56	5280		7.00	6.49
		60	5300		7.00	6.51
		64	5320		7.00	6.56
	802.11ac20-VHT0	52	5260	MCS0	7.00	6.55
		56	5280		7.00	6.54
		60	5300		7.00	6.58
		64	5320		7.00	6.50
	802.11ax20-HE0	52	5260	MCS0	7.00	6.39
		56	5280		7.00	6.54
		60	5300		7.00	6.53
		64	5320		7.00	6.19
	802.11n40-HT0	54	5270	MCS0	7.00	6.22
		62	5310		7.00	6.33
	802.11ac40-VHT0	54	5270	MCS0	7.00	6.49
		62	5310		7.00	6.47
802.11ax40-HE0	54	5270	MCS0	7.00	6.49	
	62	5310		7.00	6.51	
802.11ac80-VHT0	58	5290	MCS0	7.00	6.54	
802.11ax80-HE0	58	5290	MCS0	7.00	6.27	

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TX2 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	7.00	6.31
		104	5520		7.00	6.34
		116	5580		7.00	6.27
		120	5600		7.00	6.27
		136	5680		7.00	6.28
		140	5700		7.00	6.31
		144	5720		7.00	6.31
	802.11n20-HT0	100	5500	MCS0	7.00	6.41
		104	5520		7.00	6.40
		116	5580		7.00	6.24
		120	5600		7.00	6.34
		136	5680		7.00	6.35
		140	5700		7.00	6.29
	802.11ac20-VHT0	100	5500	MCS0	7.00	6.38
		104	5520		7.00	6.35
		116	5580		7.00	6.28
		120	5600		7.00	6.26
		136	5680		7.00	6.31
		140	5700		7.00	6.35
	802.11ax20-HE0	100	5500	MCS0	7.00	6.29
		104	5520		7.00	6.25
		116	5580		7.00	6.32
		120	5600		7.00	6.33
		136	5680		7.00	6.23
		140	5700		7.00	6.39
	802.11n40-HT0	100	5500	MCS0	7.00	6.23
		104	5520		7.00	6.30
		116	5580		7.00	6.32
		120	5600		7.00	6.33
		136	5680		7.00	6.23
		140	5700		7.00	6.39
	802.11ac40-VHT0	102	5510	MCS0	7.00	6.23
		110	5550		7.00	6.23
		118	5590		7.00	6.17
		134	5670		7.00	6.32
		142	5710		7.00	6.26
		102	5510		7.00	6.29
	802.11ax40-HE0	110	5550	MCS0	7.00	6.36
		118	5590		7.00	6.35
		134	5670		7.00	6.35
		142	5710		7.00	6.26
		102	5510		7.00	6.23
		110	5550		7.00	6.35
	802.11ac80-VHT0	118	5590	MCS0	7.00	6.26
		134	5670		7.00	6.30
		142	5710		7.00	6.35
		106	5530		7.00	6.29
		122	5610		7.00	6.20
		138	5690		7.00	6.44
	802.11ax80-HE0	106	5530	MCS0	7.00	6.20
		122	5610		7.00	6.30
		138	5690		7.00	6.28
114		5570	MCS0		7.00	6.60
114		5570	MCS0		7.00	6.39

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TX2 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	7.00	6.28
		157	5785		7.00	6.41
		165	5825		7.00	6.29
	802.11n20-HT0	149	5745	MCS0	7.00	6.32
		157	5785		7.00	6.20
		165	5825		7.00	6.21
	802.11ac20-VHT0	149	5745	MCS0	7.00	6.29
		157	5785		7.00	6.25
		165	5825		7.00	6.31
	802.11ax20-HE0	149	5745	MCS0	7.00	6.31
		157	5785		7.00	6.33
		165	5825		7.00	6.22
	802.11n40-HT0	151	5755	MCS0	7.00	6.21
		159	5795		7.00	6.37
	802.11ac40-VHT0	151	5755	MCS0	7.00	6.26
		159	5795		7.00	6.16
802.11ax40-HE0	151	5755	MCS0	7.00	6.25	
	159	5795		7.00	6.30	
802.11ac80-VHT0	155	5775	MCS0	7.00	6.47	
802.11ax80-HE0	155	5775	MCS0	7.00	6.19	

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**Sensor off- WLAN only**
**TX1**

TX1 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	16.50	15.49
		2	2417		16.50	15.38
		6	2437		16.50	15.52
		10	2457		16.50	15.42
		11	2462		16.50	15.54
		12	2467		16.50	15.39
	802.11g	6Mbps	1	2412	16.50	15.33
			2	2417	16.50	15.20
			6	2437	16.50	15.23
			10	2457	16.50	15.31
			11	2462	16.00	14.24
			12	2467	14.00	12.57
	802.11n20-HT0	MCS0	13	2472	11.50	10.25
			1	2412	16.50	15.14
			2	2417	16.50	15.39
			6	2437	16.50	15.24
			10	2457	16.50	15.15
			11	2462	16.00	14.79
	802.11ac20-HT0	MCS0	12	2467	14.00	12.45
			13	2472	11.50	10.43
			1	2412	16.50	15.23
			2	2417	16.50	15.43
			6	2437	16.50	15.17
			10	2457	16.50	15.29
	802.11n40-HT0	MCS0	11	2462	16.00	14.81
			12	2467	14.00	12.24
			13	2472	11.50	10.29
			3	2422	16.50	15.33
			4	2427	16.50	15.37
			6	2437	16.50	15.43
	802.11ac40-HT0	MCS0	8	2447	15.00	13.92
			9	2452	14.25	13.17
			10	2457	11.00	10.11
			11	2462	9.75	8.62
			3	2422	16.50	15.22
			4	2427	16.50	15.38
			6	2437	16.50	15.15
			8	2447	15.00	13.81
			9	2452	14.25	13.25
			10	2457	11.00	10.10
			11	2462	9.75	8.97

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TX1 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	17.50	16.41
		40	5200		17.50	16.29
		44	5220		17.50	16.25
		48	5240		17.50	16.39
	802.11n20-HT0	36	5180	MCS0	17.50	16.36
		40	5200		17.50	16.31
		44	5220		17.50	16.34
		48	5240		17.50	16.23
	802.11ac20-VHT0	36	5180	MCS0	17.50	16.40
		40	5200		17.50	16.32
		44	5220		17.50	16.26
		48	5240		17.50	16.50
	802.11ax20-HE0	36	5180	MCS0	17.50	16.48
		40	5200		17.50	16.34
		44	5220		17.50	16.25
		48	5240		17.50	16.46
	802.11n40-HT0	38	5190	MCS0	17.00	15.58
		46	5230		17.50	16.52
	802.11ac40-VHT0	38	5190	MCS0	17.00	15.35
		46	5230		17.50	16.35
802.11ax40-HE0	38	5190	MCS0	17.00	15.43	
	46	5230		17.50	16.39	
802.11ac80-VHT0	42	5210	MCS0	17.00	15.37	
802.11ax80-HE0	42	5210	MCS0	17.00	15.29	
802.11ac160-VHT0	50	5250	MCS0	14.50	14.32	
802.11ax160-HE0	50	5250	MCS0	14.50	14.43	

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TX1 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	17.50	16.41
		56	5280		17.50	16.31
		60	5300		17.50	16.36
		64	5320		17.50	16.28
	802.11n20-HT0	52	5260	MCS0	17.50	16.41
		56	5280		17.50	16.31
		60	5300		17.50	16.29
		64	5320		17.50	16.53
	802.11ac20-VHT0	52	5260	MCS0	17.50	16.43
		56	5280		17.50	16.29
		60	5300		17.50	16.25
		64	5320		17.50	16.49
	802.11ax20-HE0	52	5260	MCS0	17.50	16.53
		56	5280		17.50	16.65
		60	5300		17.50	16.33
		64	5320		17.50	16.38
	802.11n40-HT0	54	5270	MCS0	17.50	16.57
		62	5310		17.50	16.49
	802.11ac40-VHT0	54	5270	MCS0	17.50	16.38
		62	5310		17.50	16.53
802.11ax40-HE0	54	5270	MCS0	17.50	16.34	
	62	5310		17.50	16.29	
802.11ac80-VHT0	58	5290	MCS0	16.25	15.19	
802.11ax80-HE0	58	5290	MCS0	16.25	15.34	

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TX1 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	17.50	16.42
		104	5520		17.50	16.37
		116	5580		17.50	16.37
		120	5600		17.50	16.31
		136	5680		17.50	16.44
		140	5700		17.50	16.38
		144	5720		17.50	16.35
	802.11n20-HT0	100	5500	MCS0	17.50	16.54
		104	5520		17.50	16.53
		116	5580		17.50	16.35
		120	5600		17.50	16.32
		136	5680		17.50	16.47
		140	5700		17.50	16.50
	802.11ac20-VHT0	100	5500	MCS0	17.50	16.41
		104	5520		17.50	16.42
		116	5580		17.50	16.44
		120	5600		17.50	16.40
		136	5680		17.50	16.51
		140	5700		17.50	16.35
	802.11ax20-HE0	100	5500	MCS0	17.50	16.28
		104	5520		17.50	16.34
		116	5580		17.50	16.33
		120	5600		17.50	16.42
		136	5680		17.50	16.40
		140	5700		17.50	16.33
	802.11n40-HT0	102	5510	MCS0	17.50	16.44
		110	5550		17.50	16.39
		118	5590		17.50	16.38
		134	5670		17.50	16.32
	802.11ac40-VHT0	142	5710	MCS0	17.50	16.26
		102	5510		17.50	16.22
		110	5550		17.50	16.42
		118	5590		17.50	16.37
	802.11ax40-HE0	134	5670	MCS0	17.50	16.39
		142	5710		17.50	16.24
		102	5510		17.50	16.33
		110	5550		17.50	16.15
	802.11ac80-VHT0	118	5590	MCS0	17.50	16.21
		134	5670		17.50	16.31
		142	5710		17.50	16.29
		106	5530		17.50	16.24
	802.11ax80-HE0	122	5610	MCS0	17.50	16.12
		138	5690		17.50	16.47
		106	5530		17.50	16.01
	802.11ac160-VHT0	122	5610	MCS0	17.50	16.27
		138	5690		17.50	16.50
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.01
	802.11ax160-HE0	114	5570	MCS0	15.00	14.13

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TX1 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	16.50	15.48
		157	5785		16.50	15.45
		165	5825		16.50	15.45
	802.11n20-HT0	149	5745	MCS0	16.50	15.53
		157	5785		16.50	15.56
		165	5825		16.50	15.61
	802.11ac20-VHT0	149	5745	MCS0	16.50	15.52
		157	5785		16.50	15.56
		165	5825		16.50	15.65
	802.11ax20-HE0	149	5745	MCS0	16.50	15.51
		157	5785		16.50	15.52
		165	5825		16.50	15.57
	802.11n40-HT0	151	5755	MCS0	16.50	15.42
		159	5795		16.50	15.44
	802.11ac40-VHT0	151	5755	MCS0	16.50	15.52
159		5795	16.50		15.51	
802.11ax40-HE0	151	5755	MCS0	16.50	15.54	
	159	5795		16.50	15.46	
802.11ac80-VHT0	155	5775	MCS0	16.50	15.57	
802.11ax80-HE0	155	5775	MCS0	16.50	15.30	

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**TX2**

TX2 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	19.00	17.52
		2	2417		19.00	17.44
		6	2437		19.00	17.78
		10	2457		19.00	17.96
		11	2462		18.75	17.28
		12	2467		17.00	16.01
		13	2472		15.75	13.99
	802.11g	1	2412	6Mbps	17.50	15.72
		2	2417		19.00	17.62
		6	2437		19.00	17.78
		10	2457		19.00	17.66
		11	2462		16.00	14.67
		12	2467		14.00	12.48
		13	2472		11.25	10.20
	802.11n20-HT0	1	2412	MCS0	17.50	16.61
		2	2417		19.00	17.41
		6	2437		19.00	17.43
		10	2457		19.00	17.35
		11	2462		16.00	14.82
		12	2467		14.00	12.46
		13	2472		11.25	10.02
	802.11ac20-HT0	1	2412	MCS0	17.50	16.27
		2	2417		19.00	17.66
		6	2437		19.00	17.88
		10	2457		19.00	17.80
		11	2462		16.00	14.81
		12	2467		14.00	12.61
		13	2472		11.25	10.44
	802.11n40-HT0	3	2422	MCS0	17.50	15.64
		4	2427		18.00	16.97
		6	2437		18.00	16.82
		8	2447		15.00	14.03
		9	2452		14.25	13.38
		10	2457		11.00	10.02
		11	2462		9.75	8.53
	802.11ac40-HT0	3	2422	MCS0	17.50	16.46
		4	2427		18.00	16.92
		6	2437		18.00	16.77
		8	2447		15.00	13.99
		9	2452		14.25	13.24
		10	2457		11.00	10.05
		11	2462		9.75	8.71

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TX2 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	17.72
		40	5200		19.00	18.01
		44	5220		19.00	18.02
		48	5240		19.00	17.74
	802.11n20-HT0	36	5180	MCS0	19.00	17.66
		40	5200		19.00	17.48
		44	5220		19.00	17.63
		48	5240		19.00	17.77
	802.11ac20-VHT0	36	5180	MCS0	19.00	17.52
		40	5200		19.00	17.44
		44	5220		19.00	17.49
		48	5240		19.00	17.33
	802.11ax20-HE0	36	5180	MCS0	19.00	17.48
		40	5200		19.00	17.46
		44	5220		19.00	17.29
		48	5240		19.00	17.74
	802.11n40-HT0	38	5190	MCS0	17.00	16.02
		46	5230		19.00	17.94
	802.11ac40-VHT0	38	5190	MCS0	17.00	15.87
		46	5230		19.00	17.72
802.11ax40-HE0	38	5190	MCS0	17.00	15.80	
	46	5230		19.00	17.47	
802.11ac80-VHT0	42	5210	MCS0	17.00	15.88	
802.11ax80-HE0	42	5210	MCS0	17.00	15.95	
802.11ac160-VHT0	50	5250	MCS0	14.75	13.99	
802.11ax160-HE0	50	5250	MCS0	14.75	14.03	

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TX2 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	19.00	17.68
		56	5280		19.00	17.62
		60	5300		19.00	17.65
		64	5320		18.25	16.98
	802.11n20-HT0	52	5260	MCS0	19.00	17.55
		56	5280		19.00	17.53
		60	5300		19.00	17.49
		64	5320		18.25	17.11
	802.11ac20-VHT0	52	5260	MCS0	19.00	17.57
		56	5280		19.00	17.47
		60	5300		19.00	17.41
		64	5320		18.25	17.02
	802.11ax20-HE0	52	5260	MCS0	19.00	17.59
		56	5280		19.00	17.80
		60	5300		19.00	17.51
		64	5320		18.25	16.88
	802.11n40-HT0	54	5270	MCS0	19.00	17.95
		62	5310		17.50	16.27
	802.11ac40-VHT0	54	5270	MCS0	19.00	17.95
		62	5310		17.50	16.40
802.11ax40-HE0	54	5270	MCS0	19.00	17.43	
	62	5310		17.50	16.40	
802.11ac80-VHT0	58	5290	MCS0	16.25	15.43	
802.11ax80-HE0	58	5290	MCS0	16.25	15.51	

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TX2 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	17.47
		104	5520		19.00	17.42
		116	5580		19.00	17.52
		120	5600		19.00	17.50
		136	5680		19.00	17.57
		140	5700		19.00	17.62
		144	5720		19.00	17.51
	802.11n20-HT0	100	5500	MCS0	19.00	17.62
		104	5520		19.00	17.60
		116	5580		19.00	17.52
		120	5600		19.00	17.44
		136	5680		19.00	17.48
		140	5700		19.00	17.62
	802.11ac20-VHT0	100	5500	MCS0	19.00	17.59
		104	5520		19.00	17.53
		116	5580		19.00	17.51
		120	5600		19.00	17.50
		136	5680		19.00	17.73
		140	5700		19.00	17.46
	802.11ax20-HE0	100	5500	MCS0	19.00	17.44
		104	5520		19.00	17.41
		116	5580		19.00	17.45
		120	5600		19.00	17.42
		136	5680		19.00	17.57
		140	5700		19.00	17.50
	802.11n40-HT0	102	5510	MCS0	18.50	16.62
		110	5550		19.00	17.48
		118	5590		19.00	17.66
		134	5670		19.00	17.74
		142	5710		19.00	17.78
	802.11ac40-VHT0	102	5510	MCS0	18.50	17.12
		110	5550		19.00	17.41
		118	5590		19.00	17.48
		134	5670		19.00	17.52
	802.11ax40-HE0	102	5510	MCS0	18.50	17.79
		110	5550		19.00	17.23
		118	5590		19.00	17.39
		134	5670		19.00	17.36
		142	5710		19.00	17.44
	802.11ac80-VHT0	106	5530	MCS0	18.00	16.71
		122	5610		19.00	17.82
		138	5690		19.00	18.07
	802.11ax80-HE0	106	5530	MCS0	18.00	16.89
		122	5610		19.00	17.55
		138	5690		19.00	17.48
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.11
	802.11ax160-HE0	114	5570	MCS0	16.00	15.03

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TX2 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	19.00	17.56
		157	5785		19.00	17.51
		165	5825		19.00	17.55
	802.11n20-HT0	149	5745	MCS0	19.00	17.55
		157	5785		19.00	17.64
		165	5825		19.00	17.62
	802.11ac20-VHT0	149	5745	MCS0	19.00	17.60
		157	5785		19.00	17.66
		165	5825		19.00	17.66
	802.11ax20-HE0	149	5745	MCS0	19.00	17.60
		157	5785		19.00	17.54
		165	5825		19.00	17.63
	802.11n40-HT0	151	5755	MCS0	19.00	17.73
		159	5795		19.00	17.95
	802.11ac40-VHT0	151	5755	MCS0	19.00	17.62
		159	5795		19.00	17.58
	802.11ax40-HE0	151	5755	MCS0	19.00	17.59
		159	5795		19.00	17.51
802.11ac80-VHT0	155	5775	MCS0	19.00	18.05	
802.11ax80-HE0	155	5775	MCS0	19.00	17.59	

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**Sensor on- WLAN only**
**TX1**

TX1 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	16.50	15.49
		2	2417		16.50	15.15
		6	2437		16.50	15.52
		10	2457		16.50	15.27
		11	2462		16.50	15.54
		12	2467		16.50	15.37
	802.11g	6Mbps	1	2412	16.50	15.41
			2	2417	16.50	15.52
			6	2437	16.50	15.35
			10	2457	16.50	15.45
			11	2462	16.00	14.43
			12	2467	14.00	12.69
	802.11n20-HT0	MCS0	13	2472	11.50	10.47
			1	2412	16.50	15.42
			2	2417	16.50	15.46
			6	2437	16.50	15.45
			10	2457	16.50	15.22
			11	2462	16.00	14.90
	802.11ac20-HT0	MCS0	12	2467	14.00	12.72
			13	2472	11.50	10.27
			1	2412	16.50	15.35
			2	2417	16.50	15.40
			6	2437	16.50	15.29
			10	2457	16.50	15.43
	802.11n40-HT0	MCS0	11	2462	16.00	14.93
			12	2467	14.00	12.77
			13	2472	11.50	10.25
			3	2422	16.50	15.48
			4	2427	16.50	15.45
			6	2437	16.50	15.53
	802.11ac40-HT0	MCS0	8	2447	15.00	13.83
			9	2452	14.25	13.27
			10	2457	11.00	10.11
			11	2462	9.75	8.62
			3	2422	16.50	14.92
			4	2427	16.50	15.49
	802.11ac40-HT0	MCS0	6	2437	16.50	15.66
			8	2447	15.00	14.62
			9	2452	14.25	13.14
			10	2457	11.00	10.10
			11	2462	9.75	8.97

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TX1 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	14.00	12.43
		40	5200		14.00	12.48
		44	5220		14.00	12.47
		48	5240		14.00	12.53
	802.11n20-HT0	36	5180	MCS0	14.00	12.51
		40	5200		14.00	12.46
		44	5220		14.00	12.51
		48	5240		14.00	12.63
	802.11ac20-VHT0	36	5180	MCS0	14.00	12.83
		40	5200		14.00	12.55
		44	5220		14.00	12.47
		48	5240		14.00	12.55
	802.11ax20-HE0	36	5180	MCS0	14.00	12.34
		40	5200		14.00	12.94
		44	5220		14.00	12.40
		48	5240		14.00	12.38
	802.11n40-HT0	38	5190	MCS0	14.00	12.37
		46	5230		14.00	12.44
	802.11ac40-VHT0	38	5190	MCS0	14.00	12.38
		46	5230		14.00	12.51
802.11ax40-HE0	38	5190	MCS0	14.00	12.59	
	46	5230		14.00	12.36	
802.11ac80-VHT0	42	5210	MCS0	14.00	13.19	
802.11ax80-HE0	42	5210	MCS0	14.00	13.07	
802.11ac160-VHT0	50	5250	MCS0	14.00	13.59	
802.11ax160-HE0	50	5250	MCS0	14.00	13.40	

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TX1 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	14.00	12.43
		56	5280		14.00	12.55
		60	5300		14.00	12.47
		64	5320		14.00	12.62
	802.11n20-HT0	52	5260	MCS0	14.00	12.49
		56	5280		14.00	12.46
		60	5300		14.00	12.49
		64	5320		14.00	12.58
	802.11ac20-VHT0	52	5260	MCS0	14.00	12.82
		56	5280		14.00	12.56
		60	5300		14.00	12.48
		64	5320		14.00	12.50
	802.11ax20-HE0	52	5260	MCS0	14.00	12.31
		56	5280		14.00	12.99
		60	5300		14.00	12.45
		64	5320		14.00	12.35
	802.11n40-HT0	54	5270	MCS0	14.00	13.13
		62	5310		14.00	13.01
	802.11ac40-VHT0	54	5270	MCS0	14.00	12.38
		62	5310		14.00	12.34
802.11ax40-HE0	54	5270	MCS0	14.00	12.48	
	62	5310		14.00	12.60	
802.11ac80-VHT0	58	5290	MCS0	14.00	13.28	
802.11ax80-HE0	58	5290	MCS0	14.00	13.11	

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TX1 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	14.00	12.40
		104	5520		14.00	12.30
		116	5580		14.00	12.43
		120	5600		14.00	12.44
		136	5680		14.00	12.51
		140	5700		14.00	12.36
		144	5720		14.00	12.55
	802.11n20-HT0	100	5500	MCS0	14.00	12.51
		104	5520		14.00	12.49
		116	5580		14.00	12.51
		120	5600		14.00	12.46
		136	5680		14.00	12.52
		140	5700		14.00	12.59
	802.11ac20-VHT0	100	5500	MCS0	14.00	12.57
		104	5520		14.00	12.45
		116	5580		14.00	12.46
		120	5600		14.00	12.31
		136	5680		14.00	12.98
		140	5700		14.00	12.36
	802.11ax20-HE0	100	5500	MCS0	14.00	12.33
		104	5520		14.00	12.32
		116	5580		14.00	12.37
		120	5600		14.00	12.51
		136	5680		14.00	12.58
		140	5700		14.00	12.30
	802.11n40-HT0	102	5510	MCS0	14.00	12.43
		110	5550		14.00	12.48
		118	5590		14.00	12.41
		134	5670		14.00	12.44
		142	5710		14.00	12.59
		144	5720		14.00	12.60
	802.11ac40-VHT0	102	5510	MCS0	14.00	12.86
		110	5550		14.00	12.39
		118	5590		14.00	12.34
		134	5670		14.00	12.44
	802.11ax40-HE0	102	5510	MCS0	14.00	12.38
		110	5550		14.00	12.45
		118	5590		14.00	12.59
		134	5670		14.00	12.33
	802.11ac80-VHT0	102	5510	MCS0	14.00	12.27
		110	5550		14.00	12.87
		118	5590		14.00	12.45
		134	5670		14.00	12.59
	802.11ax80-HE0	106	5530	MCS0	14.00	12.82
		122	5610		14.00	12.44
		138	5690		14.00	12.96
	802.11ac160-VHT0	106	5530	MCS0	14.00	12.43
		122	5610		14.00	12.30
138		5690	14.00		12.35	
802.11ac160-VHT0	114	5570	MCS0	14.00	13.26	
802.11ax160-HE0	114	5570	MCS0	14.00	12.47	

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TX1 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	14.00	12.44
		157	5785		14.00	12.44
		165	5825		14.00	12.52
	802.11n20-HT0	149	5745	MCS0	14.00	12.51
		157	5785		14.00	12.58
		165	5825		14.00	12.57
	802.11ac20-VHT0	149	5745	MCS0	14.00	12.55
		157	5785		14.00	12.61
		165	5825		14.00	12.59
	802.11ax20-HE0	149	5745	MCS0	14.00	12.55
		157	5785		14.00	12.49
		165	5825		14.00	12.61
	802.11n40-HT0	151	5755	MCS0	14.00	12.98
		159	5795		14.00	12.97
	802.11ac40-VHT0	151	5755	MCS0	14.00	12.48
		159	5795		14.00	12.43
802.11ax40-HE0	151	5755	MCS0	14.00	12.55	
	159	5795		14.00	12.43	
802.11ac80-VHT0	155	5775	MCS0	14.00	13.09	
802.11ax80-HE0	155	5775	MCS0	14.00	12.44	

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**TX2**

TX2 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	14.50	13.21
		2	2417		14.50	13.15
		6	2437		14.50	13.37
		10	2457		14.50	13.22
		11	2462		14.50	13.46
		12	2467		14.50	13.39
		13	2472		14.50	13.50
	802.11g	1	2412	6Mbps	14.50	13.49
		2	2417		14.50	13.62
		6	2437		14.50	13.44
		10	2457		14.50	13.49
		11	2462		14.50	13.44
		12	2467		14.00	12.56
		13	2472		11.25	10.05
	802.11n20-HT0	1	2412	MCS0	14.50	13.52
		2	2417		14.50	13.51
		6	2437		14.50	13.55
		10	2457		14.50	13.25
		11	2462		14.50	13.97
		12	2467		14.00	12.64
		13	2472		11.25	10.15
	802.11ac20-HT0	1	2412	MCS0	14.50	13.36
		2	2417		14.50	13.44
		6	2437		14.50	13.36
		10	2457		14.50	13.52
		11	2462		14.50	13.53
		12	2467		14.00	12.77
		13	2472		11.25	10.29
	802.11n40-HT0	3	2422	MCS0	14.50	13.49
		4	2427		14.50	13.52
		6	2437		14.50	13.54
		8	2447		14.50	13.50
		9	2452		14.25	13.47
		10	2457		11.00	10.02
		11	2462		9.75	8.53
	802.11ac40-HT0	3	2422	MCS0	14.50	13.79
		4	2427		14.50	13.58
		6	2437		14.50	13.66
		8	2447		14.50	13.61
		9	2452		14.25	13.17
		10	2457		11.00	10.05
		11	2462		9.75	8.71

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TX2 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	14.00	12.42
		40	5200		14.00	12.53
		44	5220		14.00	12.46
		48	5240		14.00	12.62
	802.11n20-HT0	36	5180	MCS0	14.00	12.51
		40	5200		14.00	12.40
		44	5220		14.00	12.44
		48	5240		14.00	12.62
	802.11ac20-VHT0	36	5180	MCS0	14.00	12.84
		40	5200		14.00	12.51
		44	5220		14.00	12.49
		48	5240		14.00	12.49
	802.11ax20-HE0	36	5180	MCS0	14.00	12.32
		40	5200		14.00	12.98
		44	5220		14.00	12.39
		48	5240		14.00	12.33
	802.11n40-HT0	38	5190	MCS0	14.00	12.38
		46	5230		14.00	12.43
	802.11ac40-VHT0	38	5190	MCS0	14.00	12.38
		46	5230		14.00	12.48
802.11ax40-HE0	38	5190	MCS0	14.00	12.57	
	46	5230		14.00	12.37	
802.11ac80-VHT0	42	5210	MCS0	14.00	13.08	
802.11ax80-HE0	42	5210	MCS0	14.00	13.05	
802.11ac160-VHT0	50	5250	MCS0	14.00	13.34	
802.11ax160-HE0	50	5250	MCS0	14.00	13.21	

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TX2 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	14.00	12.46
		56	5280		14.00	12.55
		60	5300		14.00	12.47
		64	5320		14.00	12.62
	802.11n20-HT0	52	5260	MCS0	14.00	12.51
		56	5280		14.00	12.49
		60	5300		14.00	12.50
		64	5320		14.00	12.55
	802.11ac20-VHT0	52	5260	MCS0	14.00	12.82
		56	5280		14.00	12.58
		60	5300		14.00	12.49
		64	5320		14.00	12.55
	802.11ax20-HE0	52	5260	MCS0	14.00	12.28
		56	5280		14.00	12.96
		60	5300		14.00	12.37
		64	5320		14.00	12.39
	802.11n40-HT0	54	5270	MCS0	14.00	12.91
		62	5310		14.00	12.88
	802.11ac40-VHT0	54	5270	MCS0	14.00	12.35
		62	5310		14.00	12.50
802.11ax40-HE0	54	5270	MCS0	14.00	12.52	
	62	5310		14.00	12.36	
802.11ac80-VHT0	58	5290	MCS0	14.00	13.03	
802.11ax80-HE0	58	5290	MCS0	14.00	13.00	

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TX2 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	14.00	12.47
		104	5520		14.00	12.41
		116	5580		14.00	12.47
		120	5600		14.00	12.53
		136	5680		14.00	12.53
		140	5700		14.00	12.48
		144	5720		14.00	12.57
	802.11n20-HT0	100	5500	MCS0	14.00	12.53
		104	5520		14.00	12.63
		116	5580		14.00	12.53
		120	5600		14.00	12.49
		136	5680		14.00	12.53
		140	5700		14.00	12.64
	802.11ac20-VHT0	100	5500	MCS0	14.00	12.59
		104	5520		14.00	12.55
		116	5580		14.00	12.56
		120	5600		14.00	12.35
		136	5680		14.00	13.01
		140	5700		14.00	12.47
	802.11ax20-HE0	100	5500	MCS0	14.00	12.42
		104	5520		14.00	12.47
		116	5580		14.00	12.39
		120	5600		14.00	12.57
		136	5680		14.00	12.60
		140	5700		14.00	12.44
	802.11n40-HT0	102	5510	MCS0	14.00	12.50
		110	5550		14.00	12.50
		118	5590		14.00	12.46
		134	5670		14.00	12.57
		142	5710		14.00	12.68
		144	5720		14.00	12.62
	802.11ac40-VHT0	102	5510	MCS0	14.00	12.86
		110	5550		14.00	12.45
		118	5590		14.00	12.47
		134	5670		14.00	12.53
	802.11ax40-HE0	102	5510	MCS0	14.00	12.42
		110	5550		14.00	12.52
		118	5590		14.00	12.73
		134	5670		14.00	12.43
	802.11ac80-VHT0	102	5510	MCS0	14.00	12.97
		110	5550		14.00	12.52
		118	5590		14.00	12.73
		134	5670		14.00	12.43
	802.11ax80-HE0	106	5530	MCS0	14.00	12.85
		122	5610		14.00	12.56
		138	5690		14.00	12.94
	802.11ac160-VHT0	106	5530	MCS0	14.00	12.50
		122	5610		14.00	12.45
		138	5690		14.00	12.40
	802.11ac160-VHT0	114	5570	MCS0	14.00	13.04
	802.11ax160-HE0	114	5570	MCS0	14.00	12.50

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TX2 Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	14.00	12.47
		157	5785		14.00	12.35
		165	5825		14.00	12.46
	802.11n20-HT0	149	5745	MCS0	14.00	12.41
		157	5785		14.00	12.50
		165	5825		14.00	12.49
	802.11ac20-VHT0	149	5745	MCS0	14.00	12.55
		157	5785		14.00	12.52
		165	5825		14.00	12.59
	802.11ax20-HE0	149	5745	MCS0	14.00	12.58
		157	5785		14.00	12.38
		165	5825		14.00	12.60
	802.11n40-HT0	151	5755	MCS0	14.00	12.78
		159	5795		14.00	12.91
	802.11ac40-VHT0	151	5755	MCS0	14.00	12.58
		159	5795		14.00	12.56
802.11ax40-HE0	151	5755	MCS0	14.00	12.57	
	159	5795		14.00	12.41	
802.11ac80-VHT0	155	5775	MCS0	14.00	13.03	
802.11ax80-HE0	155	5775	MCS0	14.00	12.48	

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**Bluetooth conducted power table:**

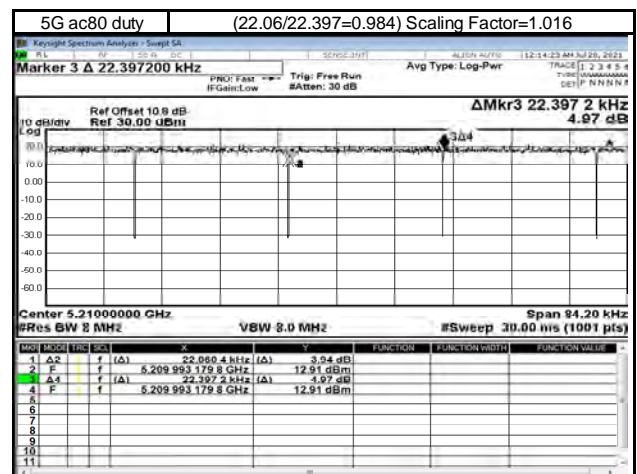
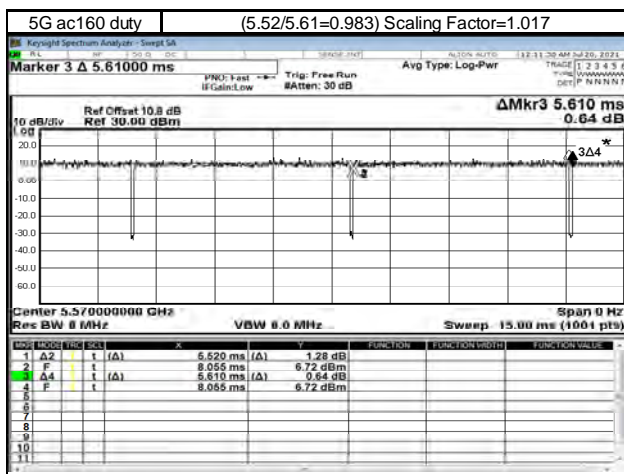
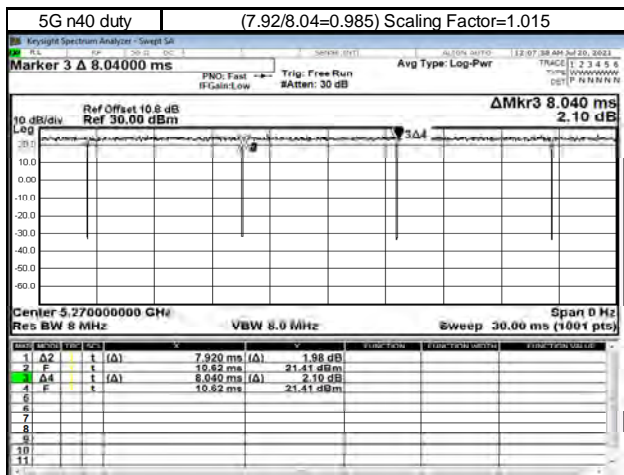
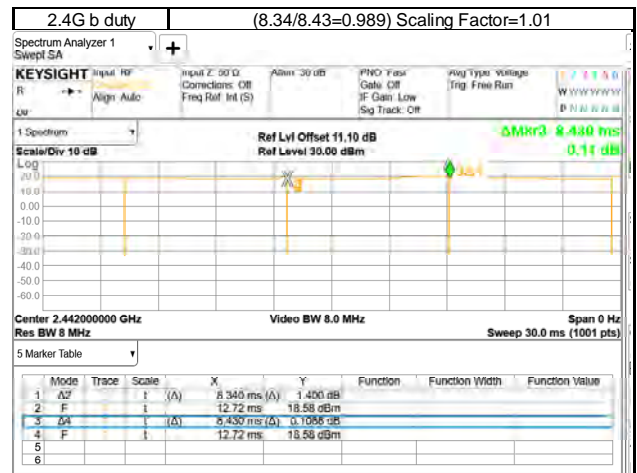
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	11.00	10.55	7.00	6.88	7.00	6.73
	CH 39	2441	11.00	10.64	7.00	6.92	7.00	6.91
	CH 78	2480	11.00	10.53	7.00	6.82	7.00	6.84

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE 1M	CH 00	2402	7.00	6.94
	CH 19	2440	7.00	6.93
	CH 39	2480	7.00	6.88

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	7.00	6.68
	CH 19	2440	7.00	6.70
	CH 39	2480	7.00	6.71

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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. The device is a tablet computer with capacitive proximity sensors for power reduction. Proximity sensors are collocated with WWAN antenna, WLAN TX1 antenna, and WLAN TX2 antenna individually.

Also, WLAN TX1 and TX2 will be full power or reduced power at the same time when operating in WLAN only mode and WWAN + WLAN mode. Besides, there are the following combination scenarios need to be considered. In the case, we used -1 and -2 to be the power level difference.

Transmission mode	WWAN sensor	WLAN TX1 sensor	WLAN TX2 sensor	WWAN power	WLAN TX1 power	WLAN TX2 power
WLAN only	-	Inactive	Inactive	-	Full-1	Full-1
	-	Inactive	Active	-	Full-1	Reduce-1
	-	Active	Inactive	-	Reduce-1	Full-1
	-	Active	Active	-	Reduce-1	Reduce-1
WWAN only	Inactive	-	-	Full	-	-
	Active	-	-	Reduced	-	-
WWAN + WLAN	Inactive	Inactive	Inactive	Full	Full-2	Full-2
	Inactive	Inactive	active	Full	Full-2	Reduce-2
	Inactive	active	Inactive	Full	Reduce-2	Full-2
	Inactive	active	active	Full	Reduce-2	Reduce-2
	active	Inactive	Inactive	Reduced	Full-2	Full-2
	active	Inactive	active	Reduced	Full-2	Reduce-2
	active	active	Inactive	Reduced	Reduce-2	Full-2
	active	active	active	Reduced	Reduce-2	Reduce-2

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**Transmission mode: WLAN only****WLAN TX1\_full power**

Back\_0mm, top\_4mm, top curve\_4mm, bottom/right/left\_0mm.

**WLAN TX1\_reduced power**

Top\_0mm, top curve\_0mm

**WLAN TX2\_full power**

Back\_4mm, top\_9mm, top curve\_9mm, bottom/right/left\_0mm.

**WLAN TX2\_reduced power**

Back\_0mm, top\_0mm, top curve\_0mm

**Transmission mode: WWAN only****WWAN TX\_full power**

Back\_16mm, top\_19mm, top curve\_19mm, bottom/right/left\_0mm.

**WWAN TX\_reduced power**

Back\_0mm, top\_0mm, top curve\_0mm

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**Transmission mode: WWAN + WLAN**

WWAN full/reduced power level is the same between WWAN only mode and WWAN + WLAN mode, so testing WWAN one time is sufficient.

**WLAN TX1\_full power**

Back\_0mm, top\_4mm, top curve\_4mm, bottom/right/left\_0mm.

**WLAN TX1\_reduced power**

Top\_0mm, top curve\_0mm

**WLAN TX2\_full power**

Back\_4mm, top\_9mm, top curve\_9mm, bottom/right/left\_0mm.

**WLAN TX2\_reduced power**

Back\_0mm, top\_0mm, top curve\_0mm

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

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

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

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

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

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

4. **UMTS:** The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is  $\leq 1/4$  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)	$\beta_a$	$\beta_{HS}$ (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,  $MPR = \text{MAX}(CM-1, 0)$ .  
 Note 3: DPDCH is not configured, therefore the  $\beta_c$  is set to 1 and  $\beta_a = 0$  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. **UMTS:** The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is  $\leq 1/4$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The following tests were

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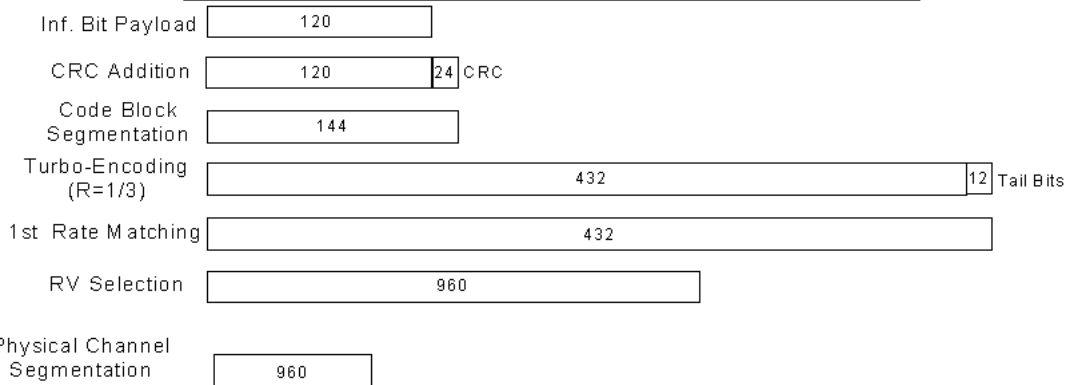
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completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

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

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

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

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

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

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

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

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

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

d. Per Section 5.2.4, Higher order modulations

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

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

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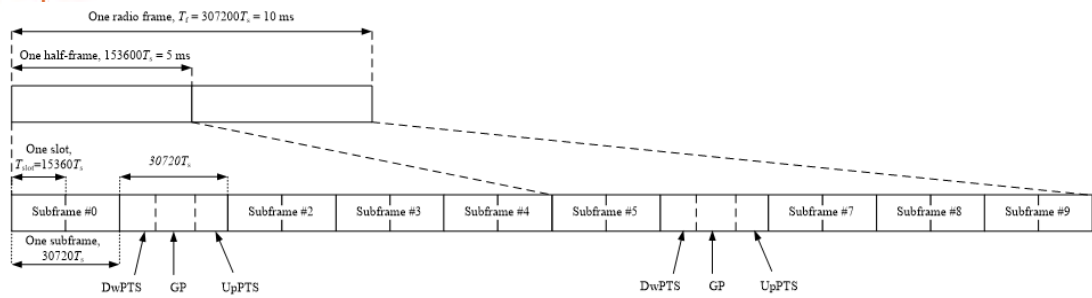


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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

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

Table 4.2-2: Uplink-downlink configurations.

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

Considering the highest transmission duty cycle, TDD LTE power class 3 was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for

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TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

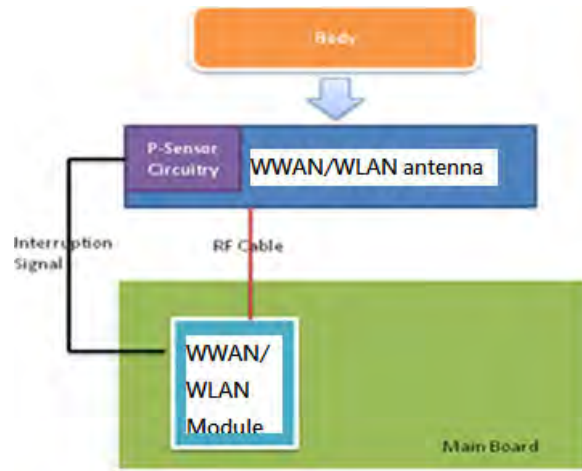
7. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
8. When the reported SAR is  $> 0.8$  W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.
9. 802.11g/n OFDM SAR Test Exclusion Requirements:  
SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
10. Initial Test Configuration:  
An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band.
11. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is  $> 0.8$  W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
12. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for subsequent test configuration.
13. According to KDB447498 D01, 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.
14. **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq 0.8$  W/kg, when the transmission band is  $\leq 100$  MHz. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8$  W/kg, repeated that measurement once. Perform a second repeated measurement only 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).

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## 1.6 Proximity sensor operation description

The P-sensor being used to reduce output power is capacitive in which when the object such as human body, metal or plastic is being approached, the sensing capacitance would be increased with the antenna pad. Once the capacitance is accumulated, and reached over the threshold as set in MCU of the microchip, the interruption signal is pulled low (High state without trigger) and further inform modem module of the transmitter to make power reduction.



### 1.6.1 Proximity sensor measurement procedure

1. The proximity sensors are collocated with WWAN/WLAN antennas.
2. Output power is measured, and monitored by using the base station simulator and power sensor/power meter. A RF cables with sufficient length was being attached from the antenna port of the module, and used for the measurement. The appropriate loss attenuated from cable is compensated in the test setup.



### 1.6.2 Trigger distances for back/top/top curve

Test procedure:

1. The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue equivalent medium and positioned at least 20 mm further than the distance that triggers power reduction.

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2. The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
3. The back surface or edge is then moved back (further away) from the phantom until maximum output power is returned to the normal maximum level.
4. The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom
5. If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
6. The process is then reversed by moving the tablet away from the phantom to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
7. The measured output power within  $\pm 5$  mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.
8. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.
9. For back surface, the trigger distance for WWAN, and WLAN Aux is 17mm, and 5mm respectively.
10. For top and top curve, the trigger distance for WWAN, WLAN Main, and WLAN Aux is 20mm, 5mm, and 10mm respectively, and we perform the 1.6.3 tilt angle testing in next step.

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### 1.6.3 Tilt angle testing

#### Test procedure:

1. The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.6.2 by rotating the tablet around the edge next to the phantom in  $\leq 10$  deg increments until the tablet is  $\pm 45$ deg or more from the vertical position at 0 deg.
2. If sensor triggering is released and normal maximum output power is restored within the  $\pm 45$ deg range, the procedures in step 1) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
3. The smallest separation distance determined in steps 1) and 2), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in sections 1.6.2, 1.6.3 minus 1 mm should be used in the SAR measurements.
4. The influence of tablet tilt angles to proximity sensor triggering is determined by positioning top and top curve, please refer to table 1.6.5 and 1.6.6.
5. After the tilt angle testing for top and top curve, the sensor is not released during  $\pm 45$ deg, so 20-1=19mm for WWAN, 5-1=4mm for WLAN Main, and 10-1=9mm for WLAN Aux are used in the SAR measurements of top and top curve.

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#### 1.6.4 Proximity sensor coverage

The following procedures do not apply and are not required for configurations where the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

Test procedure:

1. The back surface or edges of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset.
2. The similar sequence of steps applied to determine sensor triggering distance in section 1.6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.
3. After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
4. The process is then repeated from the other direction, at the opposite end of maximum antenna and sensor offset, by rotating the tablet 180 degrees.

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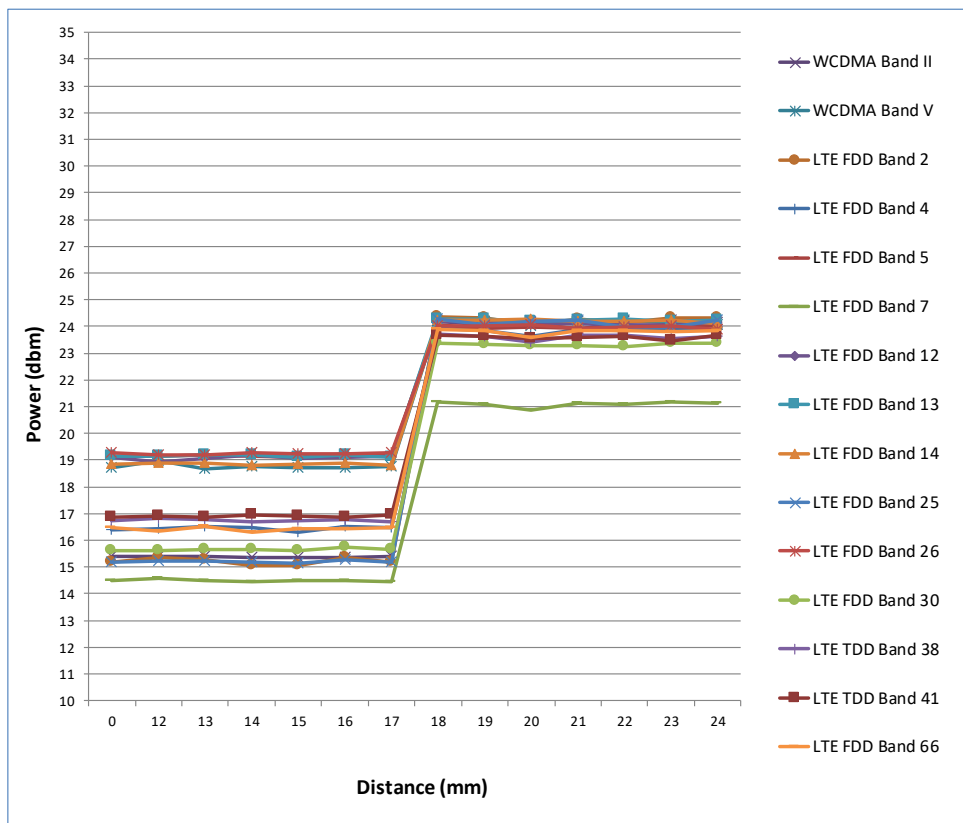
### 1.6.5 Results

The measured output power within  $\pm 5$  mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom is tabulated in the following.

#### Back side

Moving device toward the phantom

#### WWAN



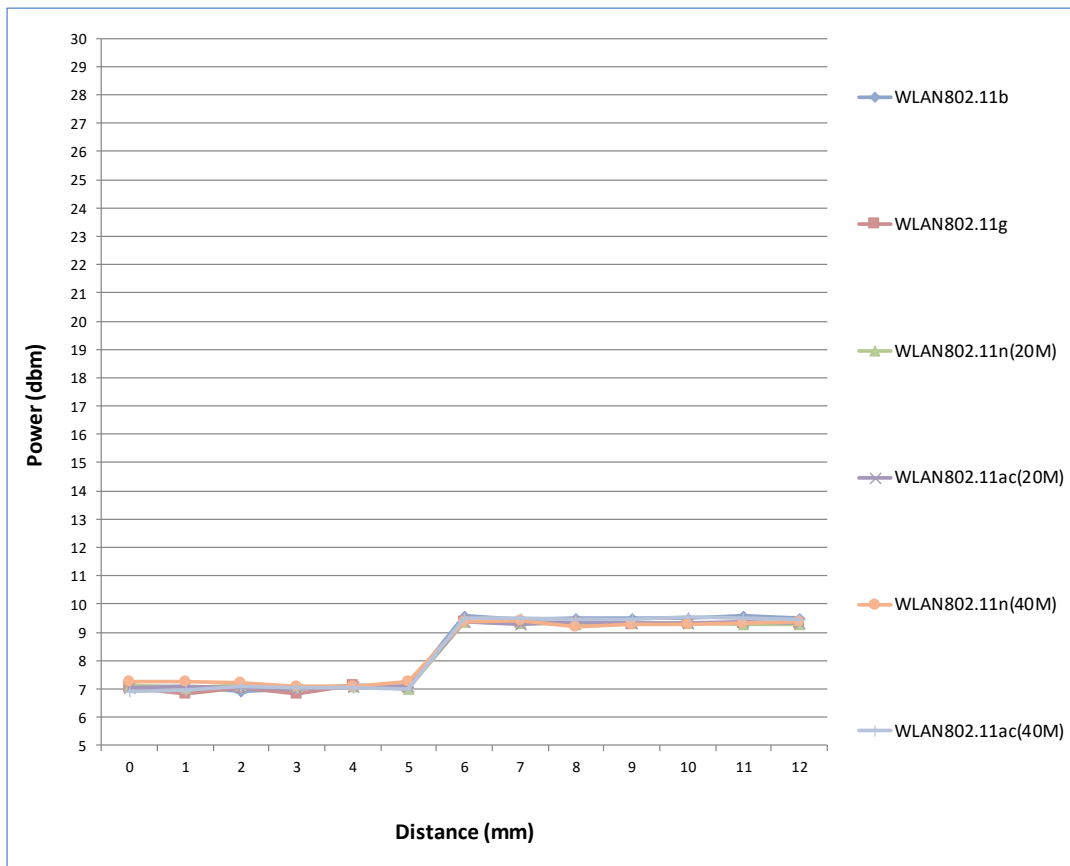
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## WLAN Hotspot mode

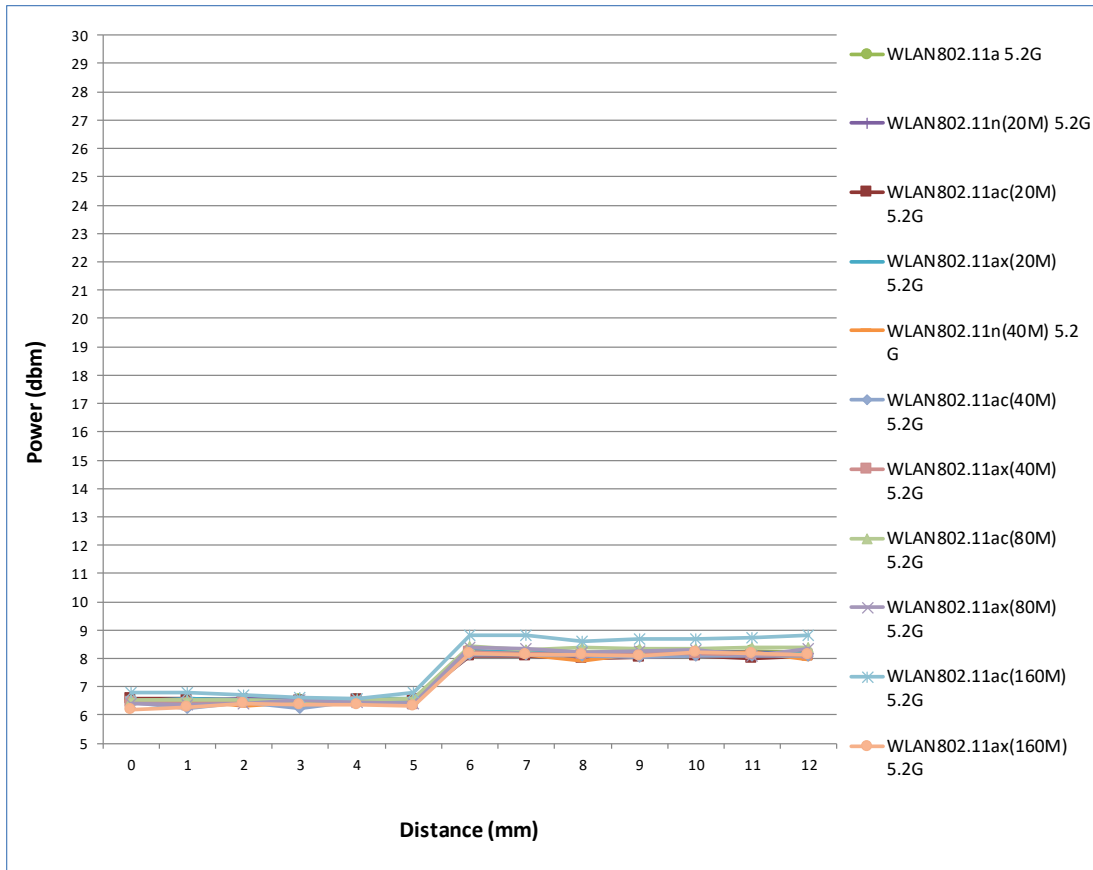
Tx2



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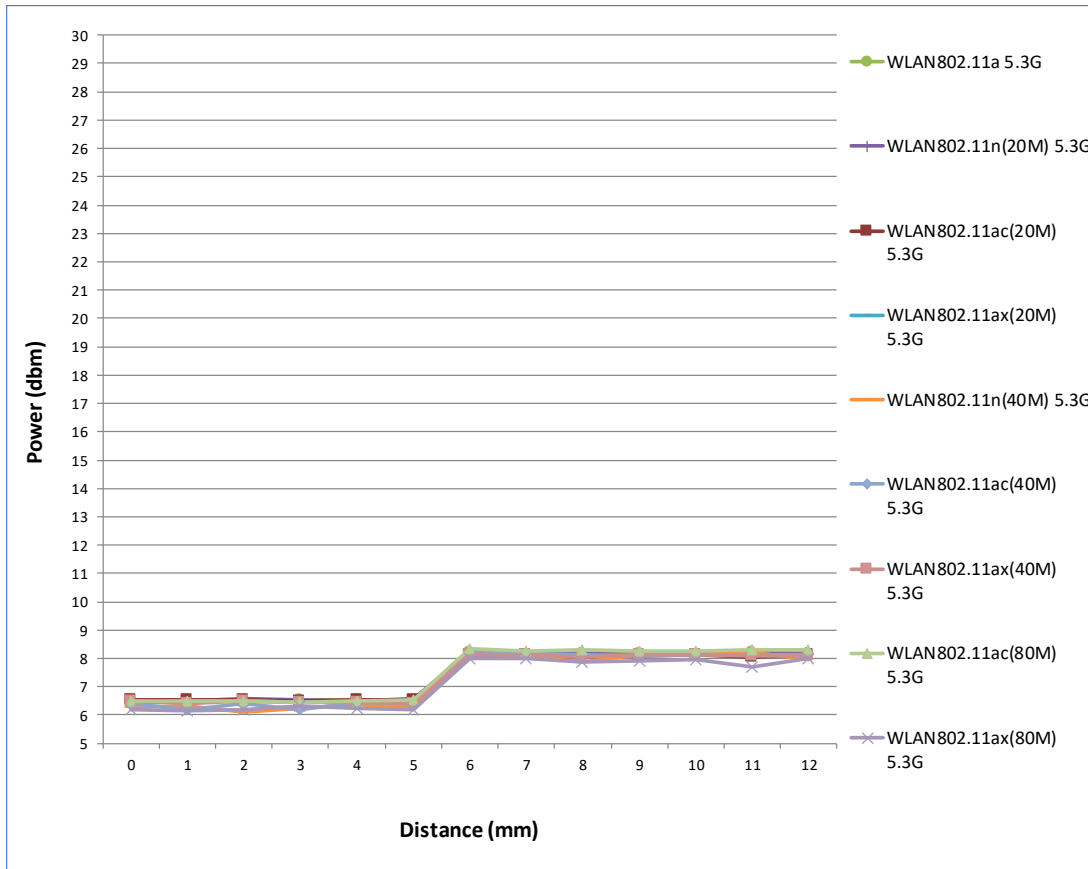
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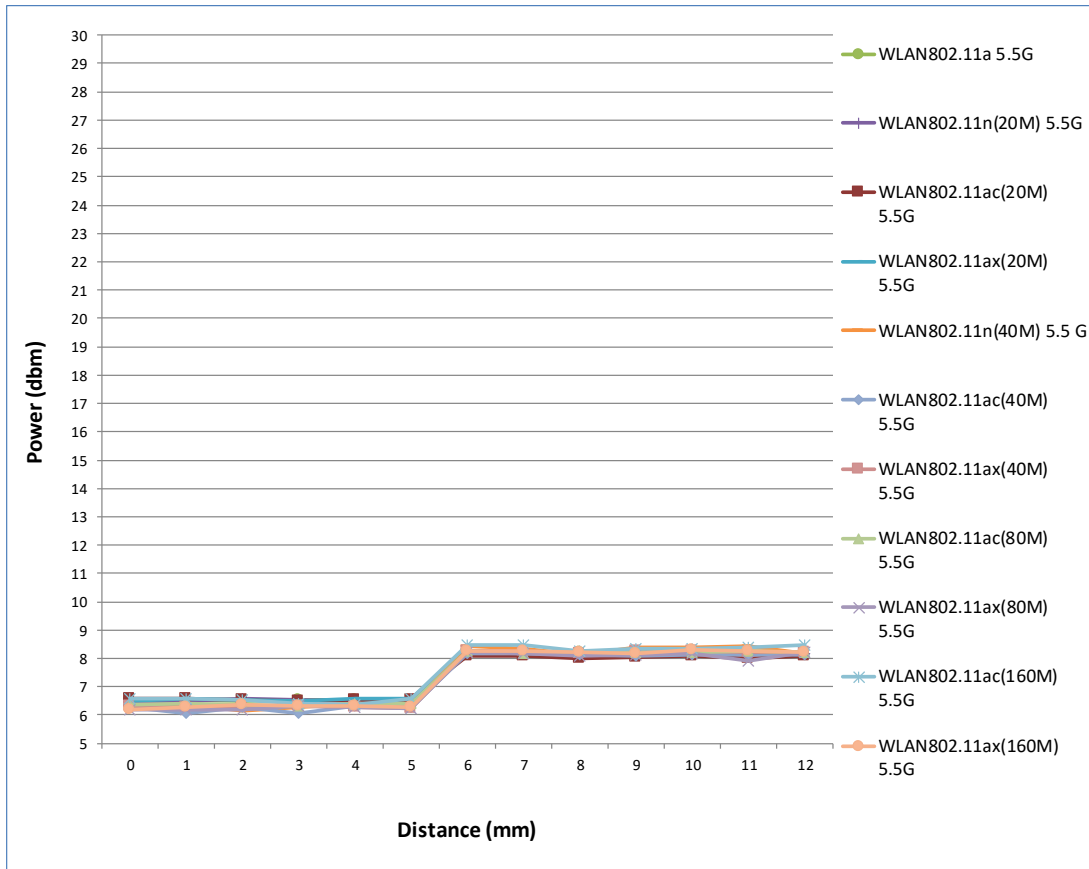
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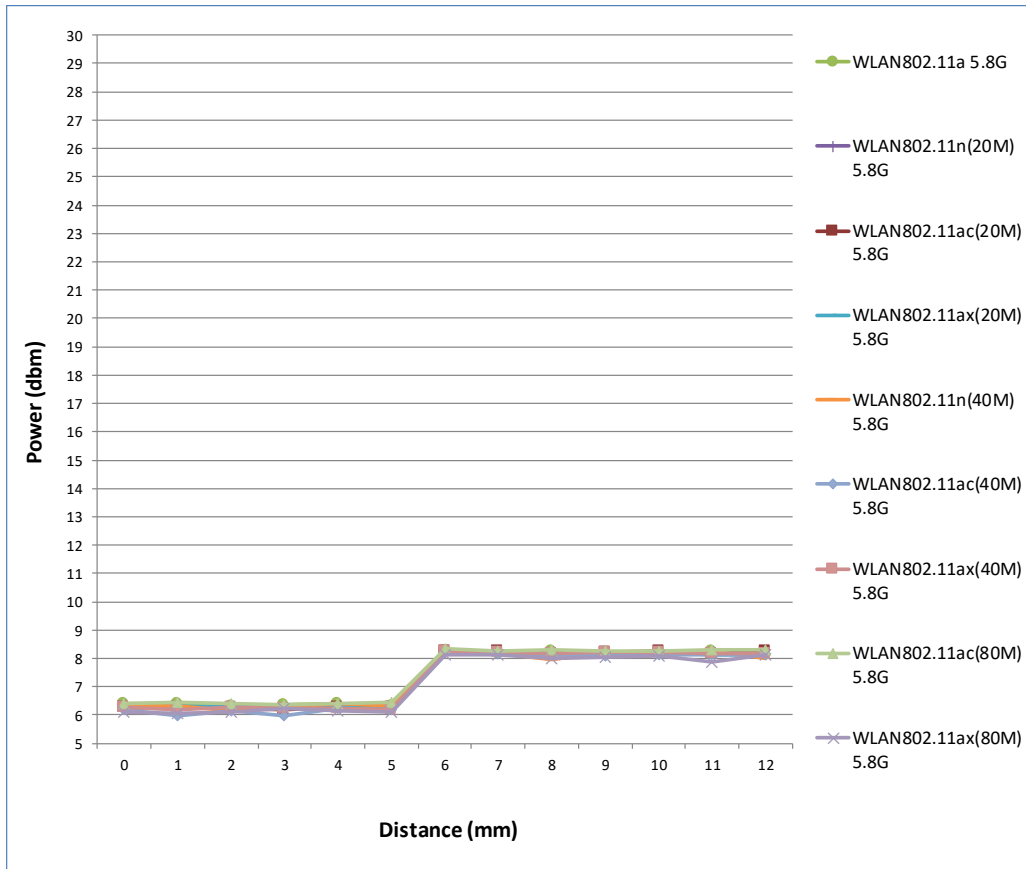


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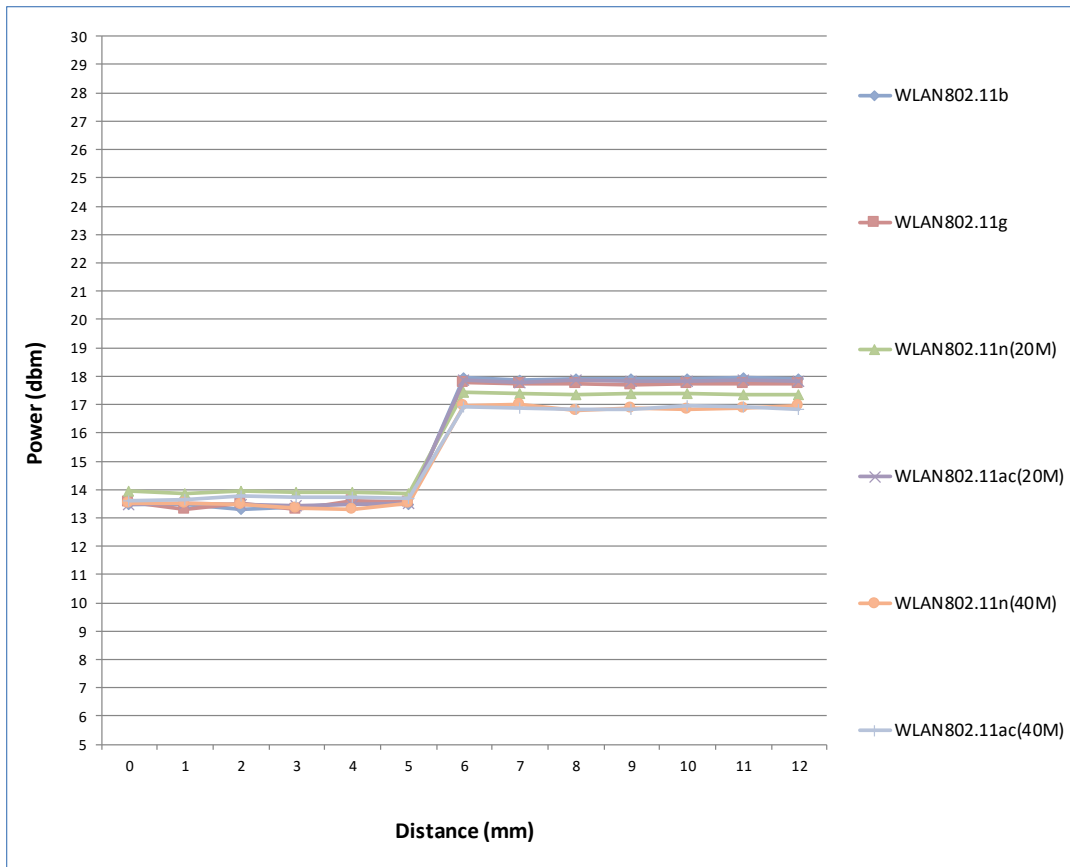
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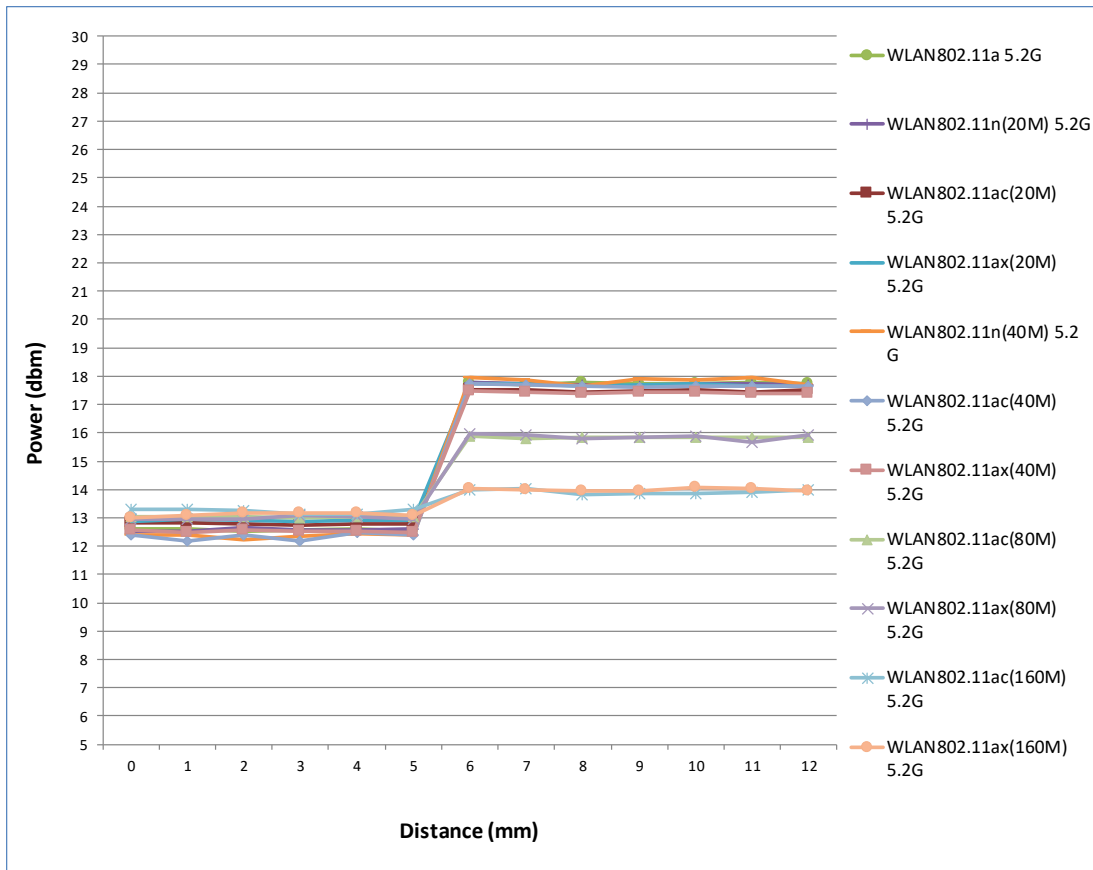
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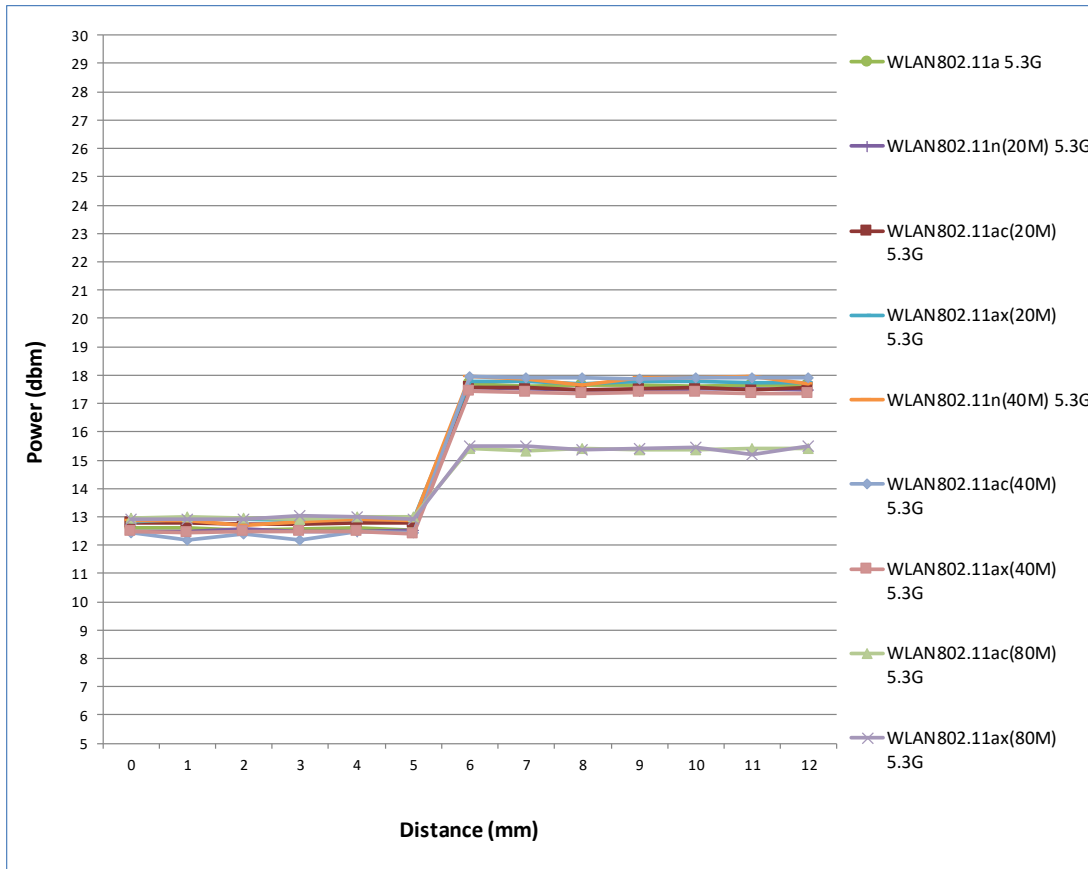
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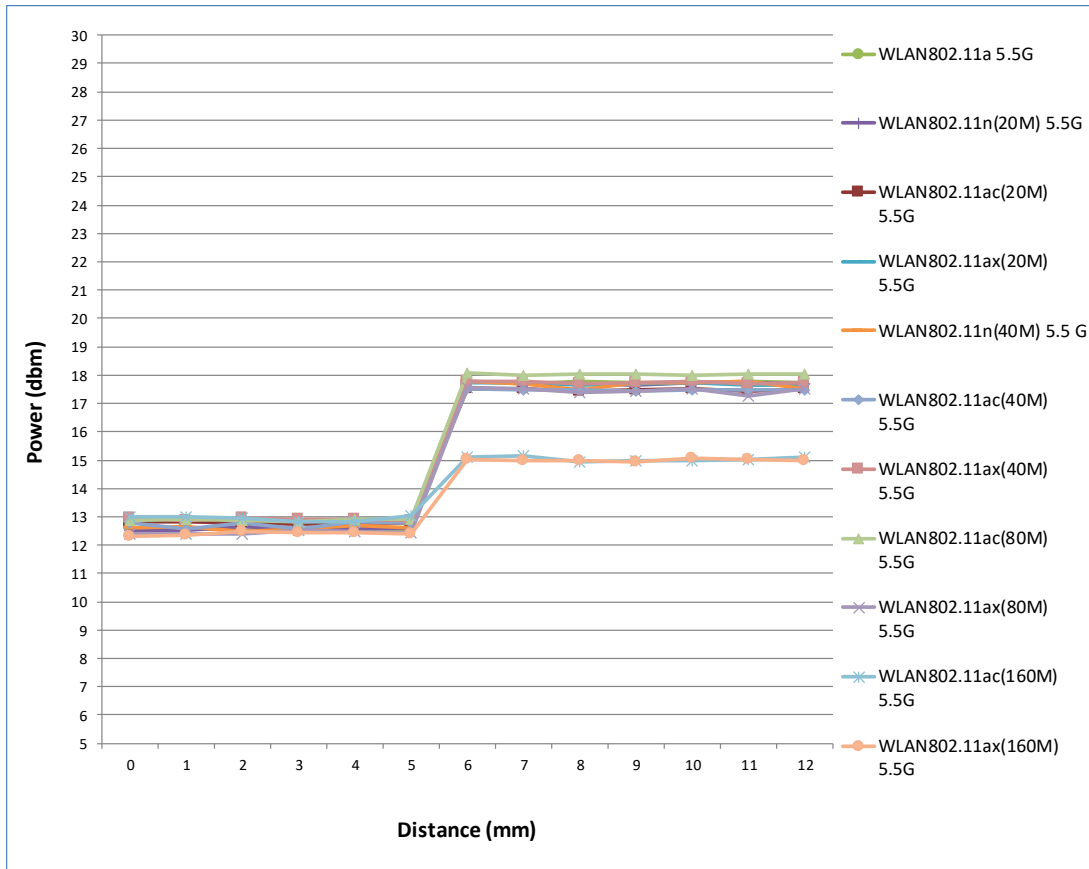
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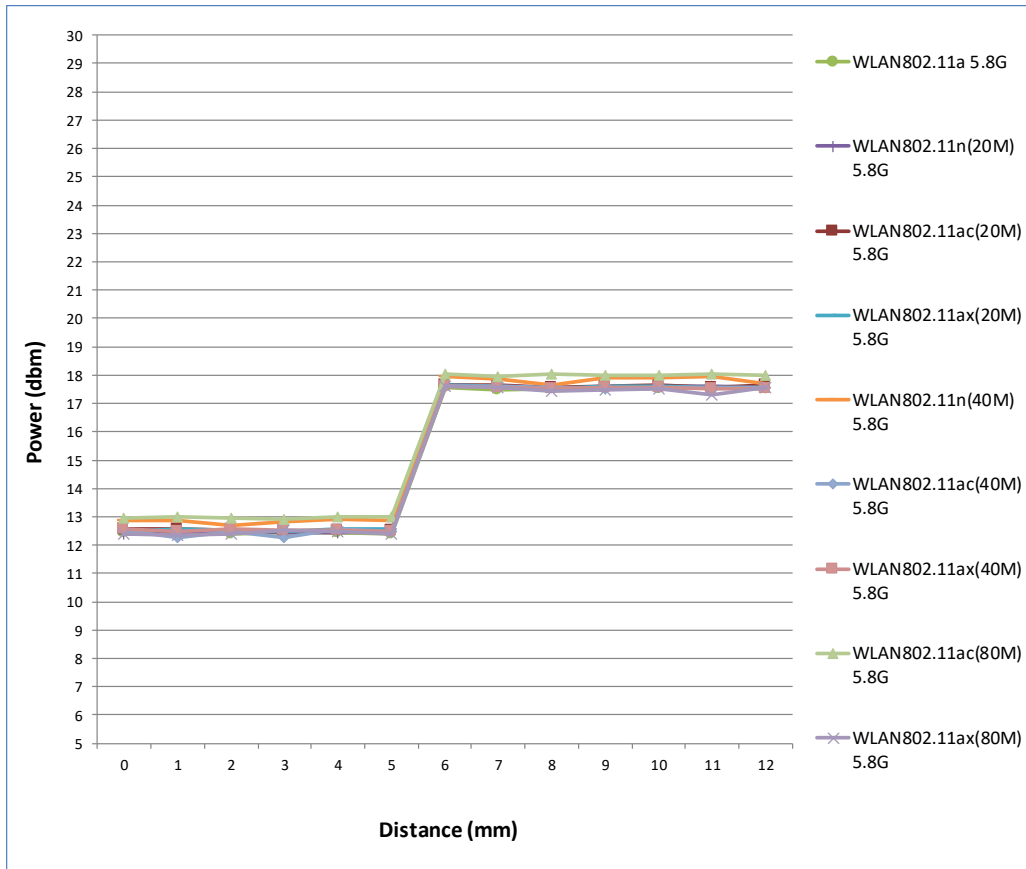
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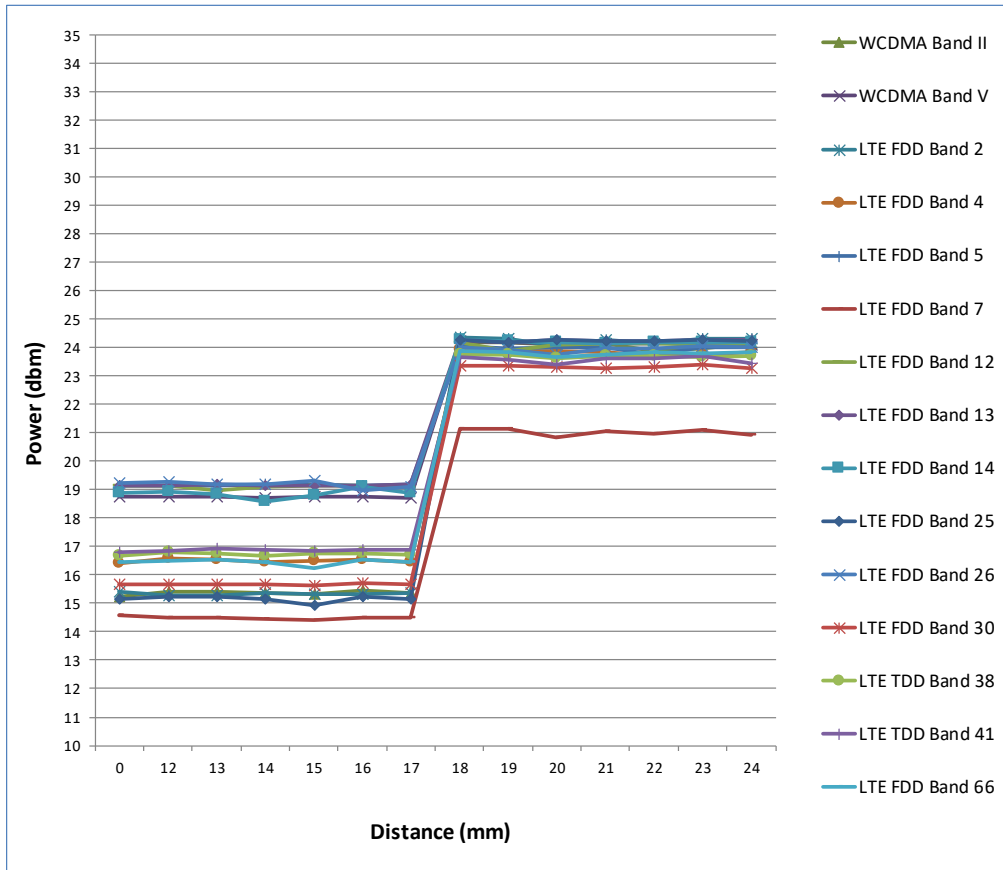
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## Moving device away from the phantom

### WWAN



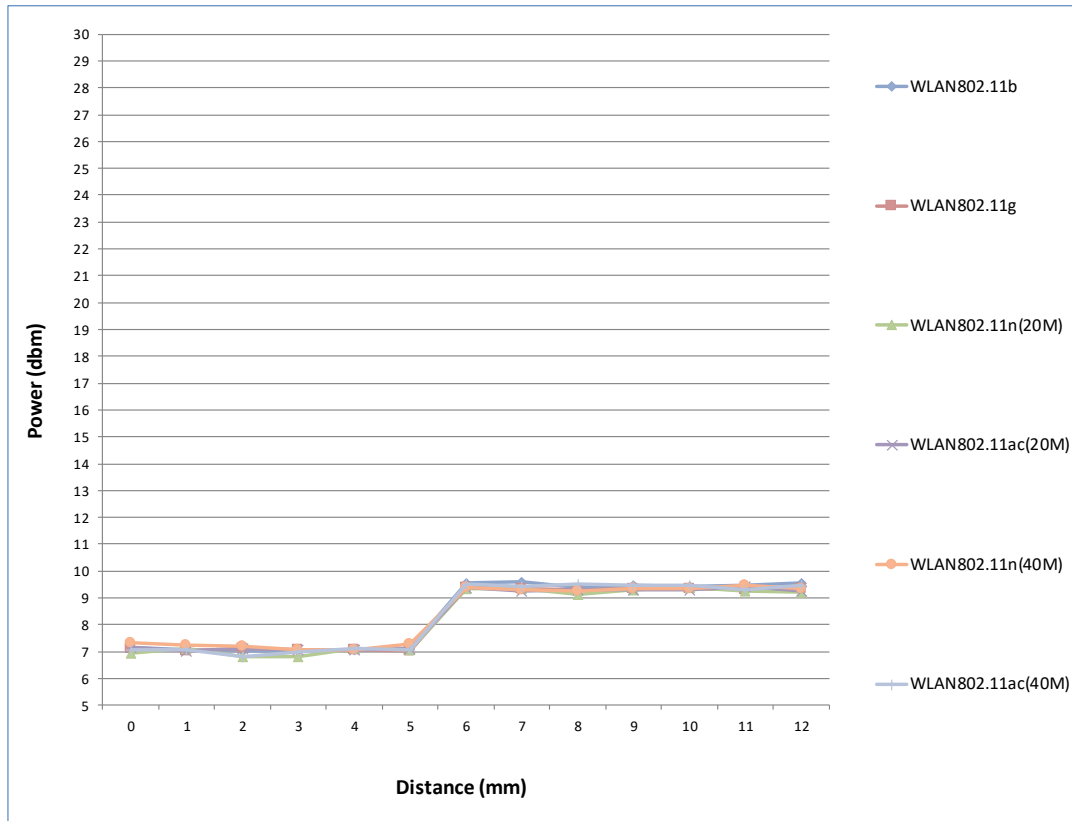
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## WLAN Hotspot mode

### Tx2

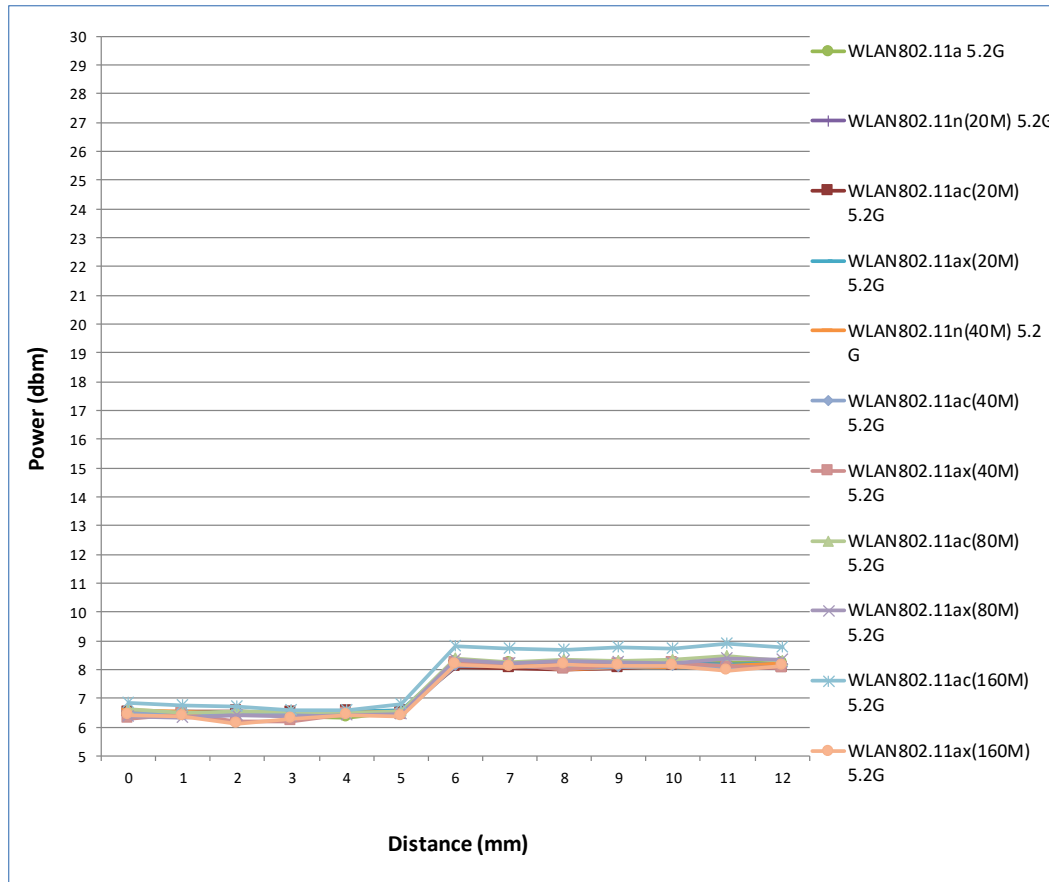


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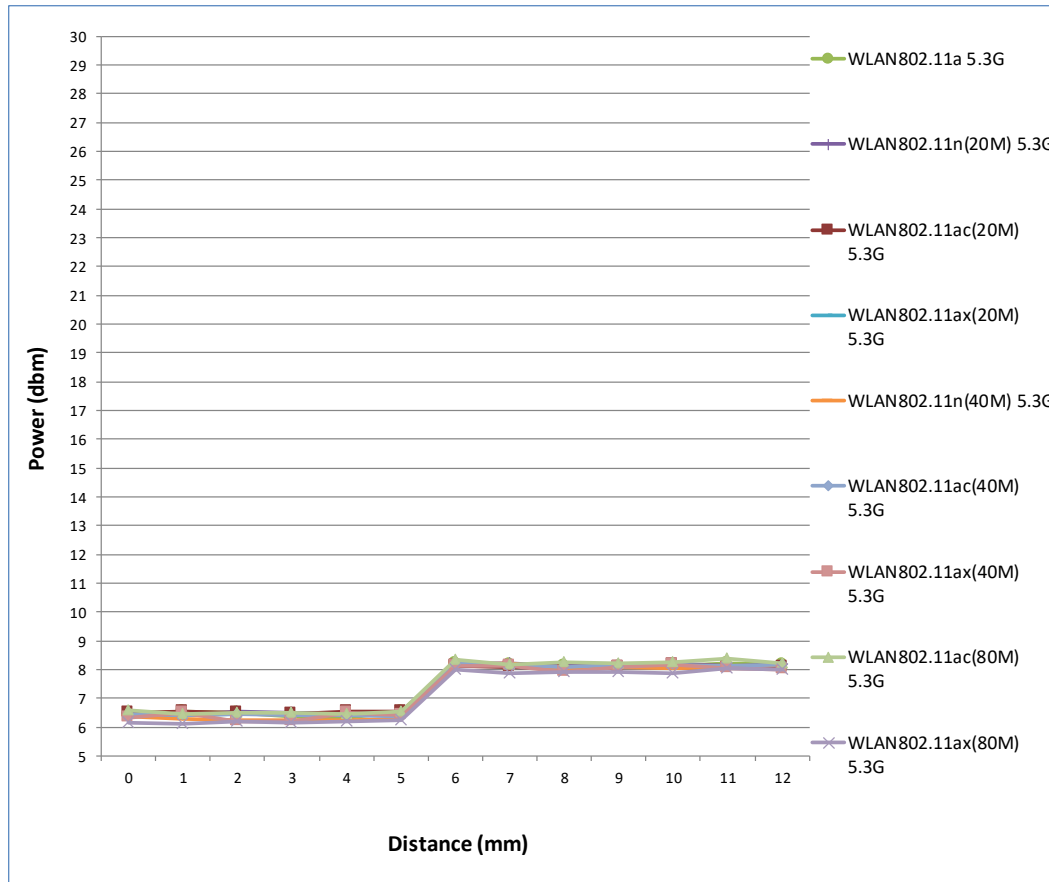




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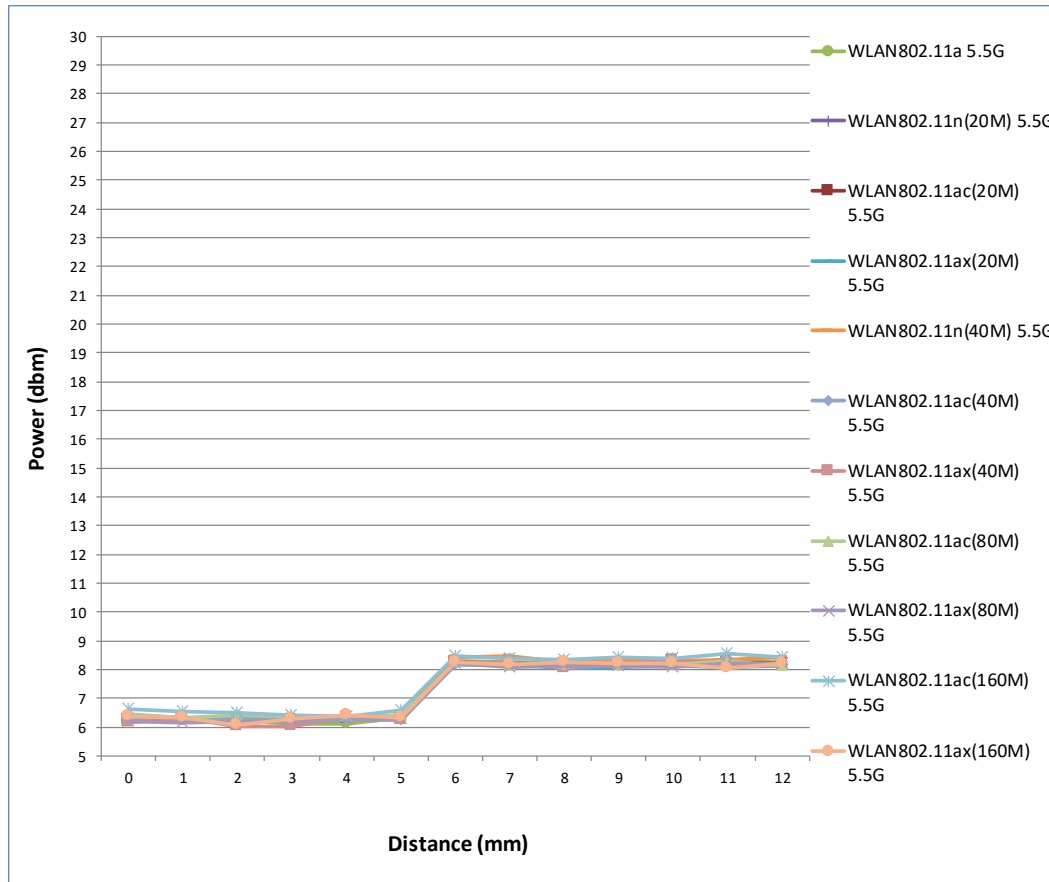
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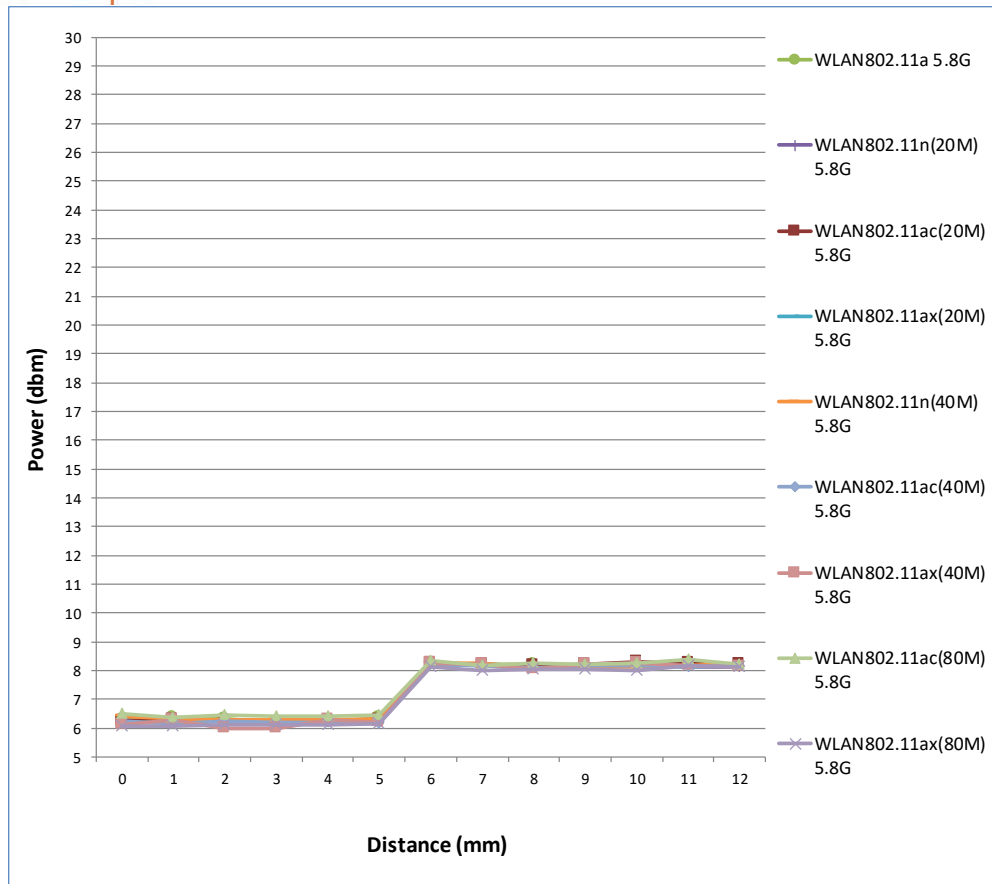
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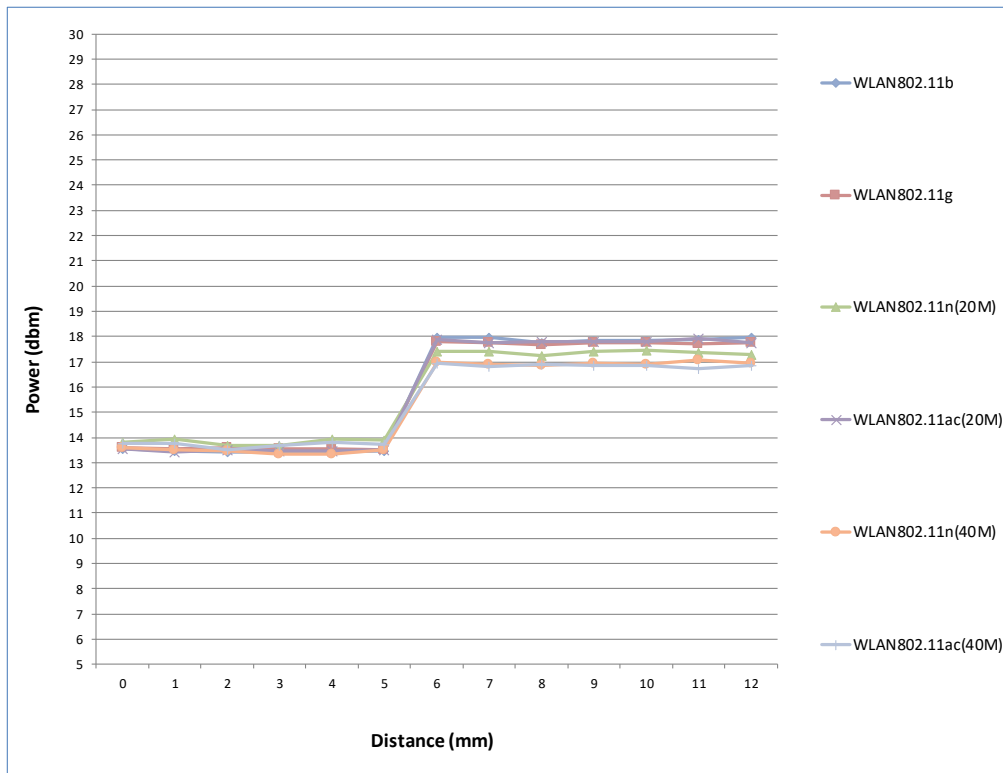
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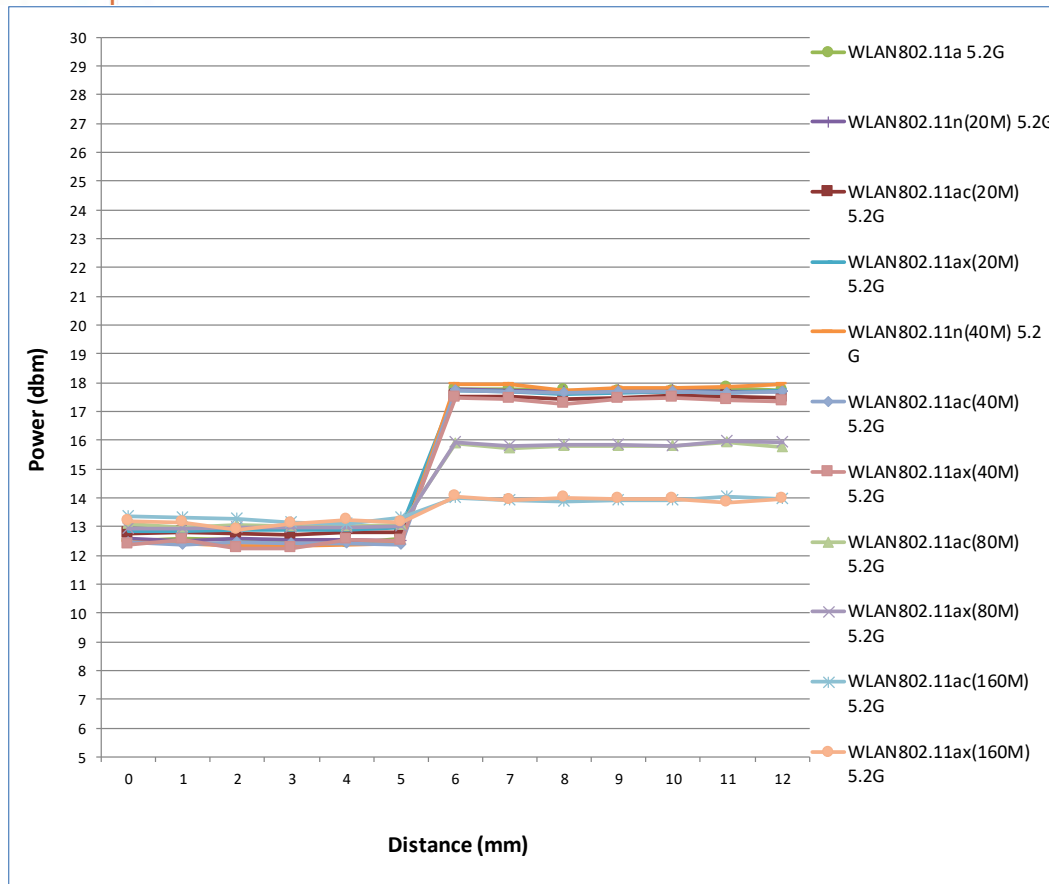
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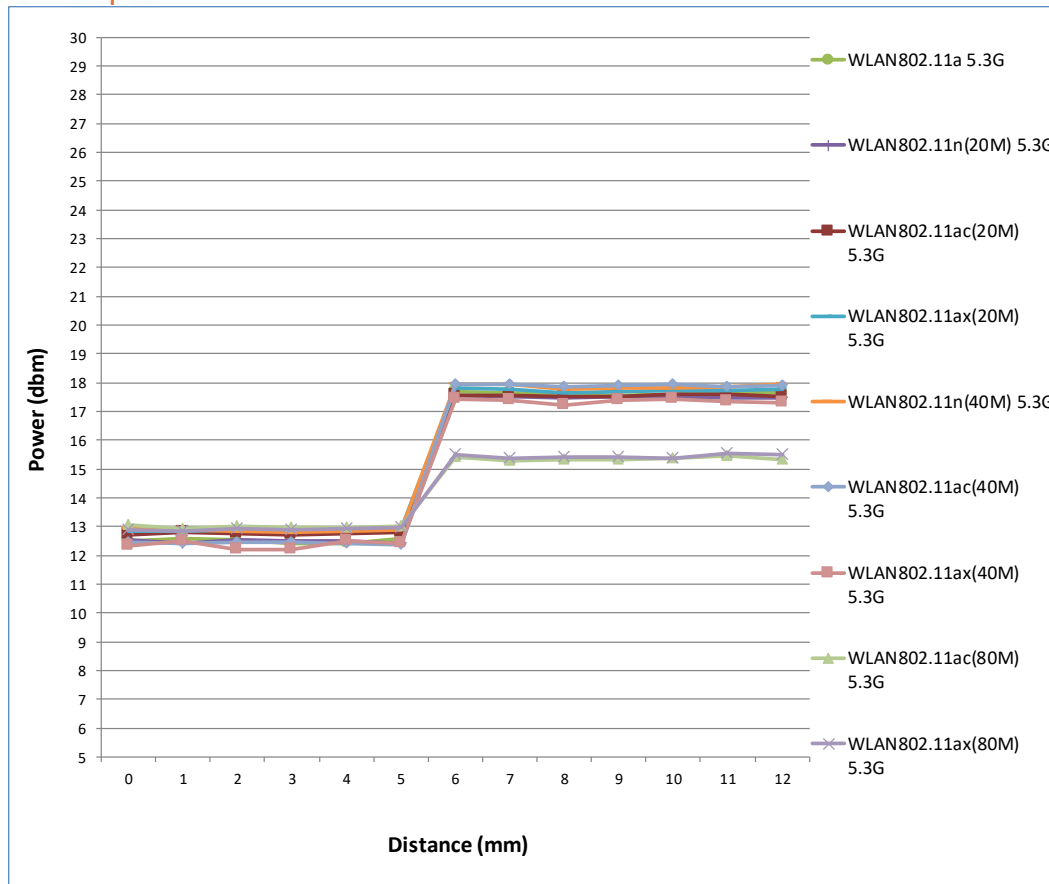
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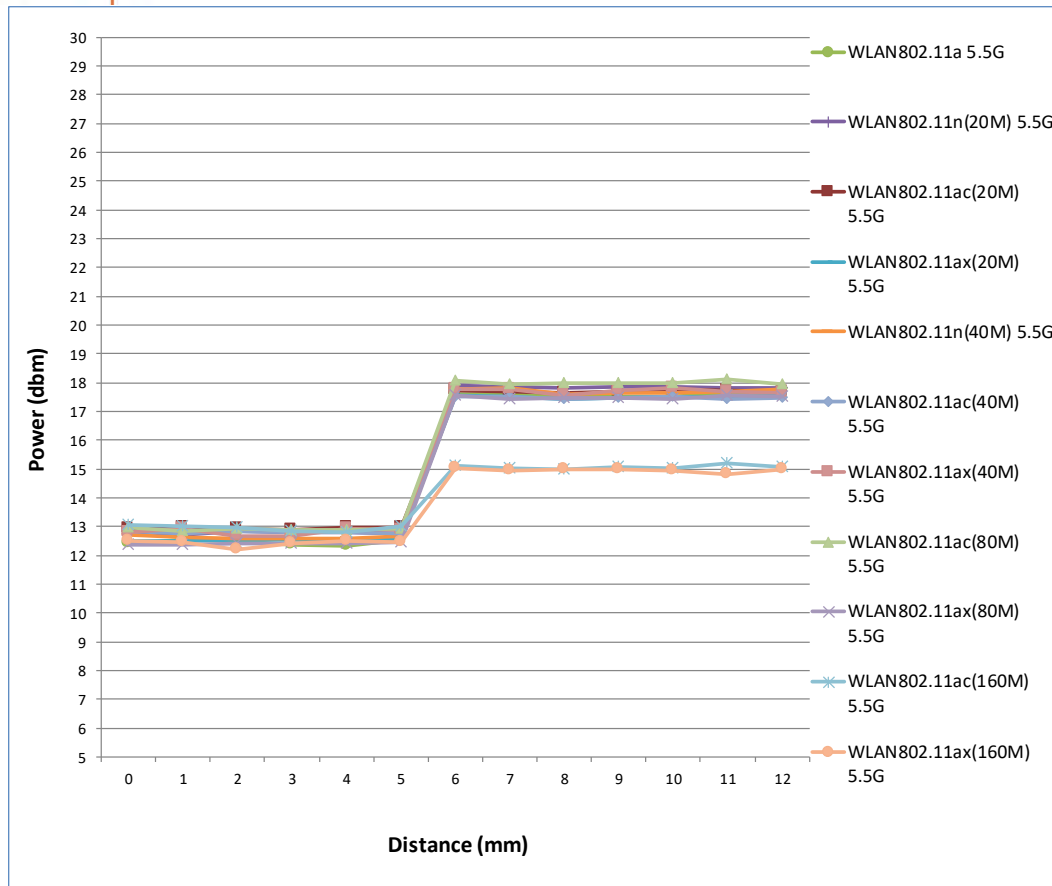
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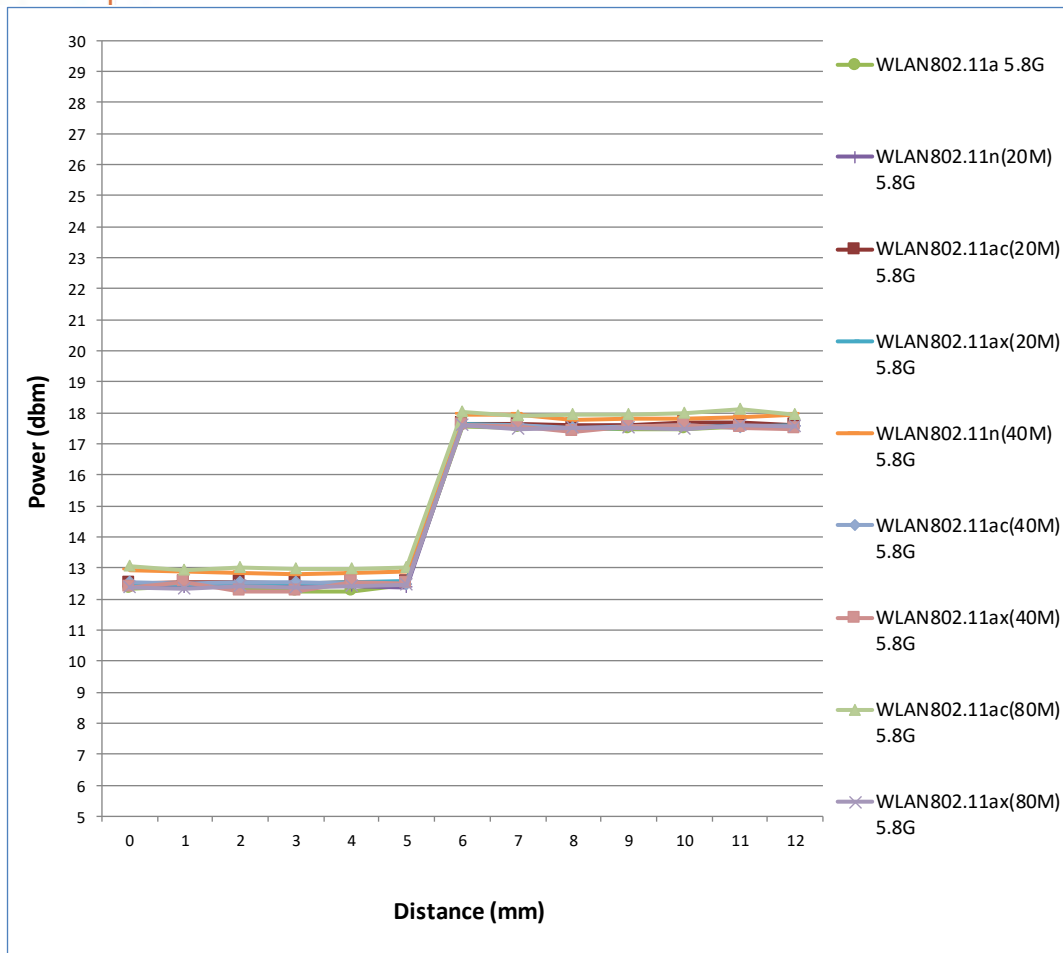


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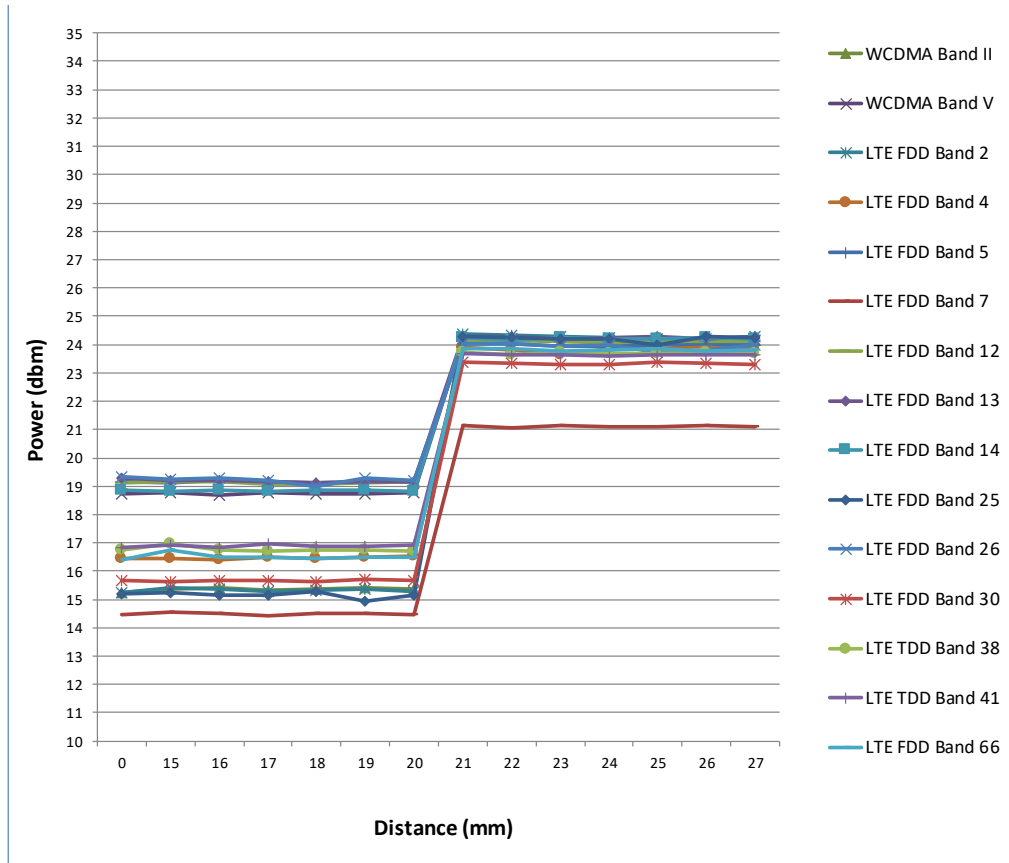
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Top side

Moving device toward the phantom

WWAN



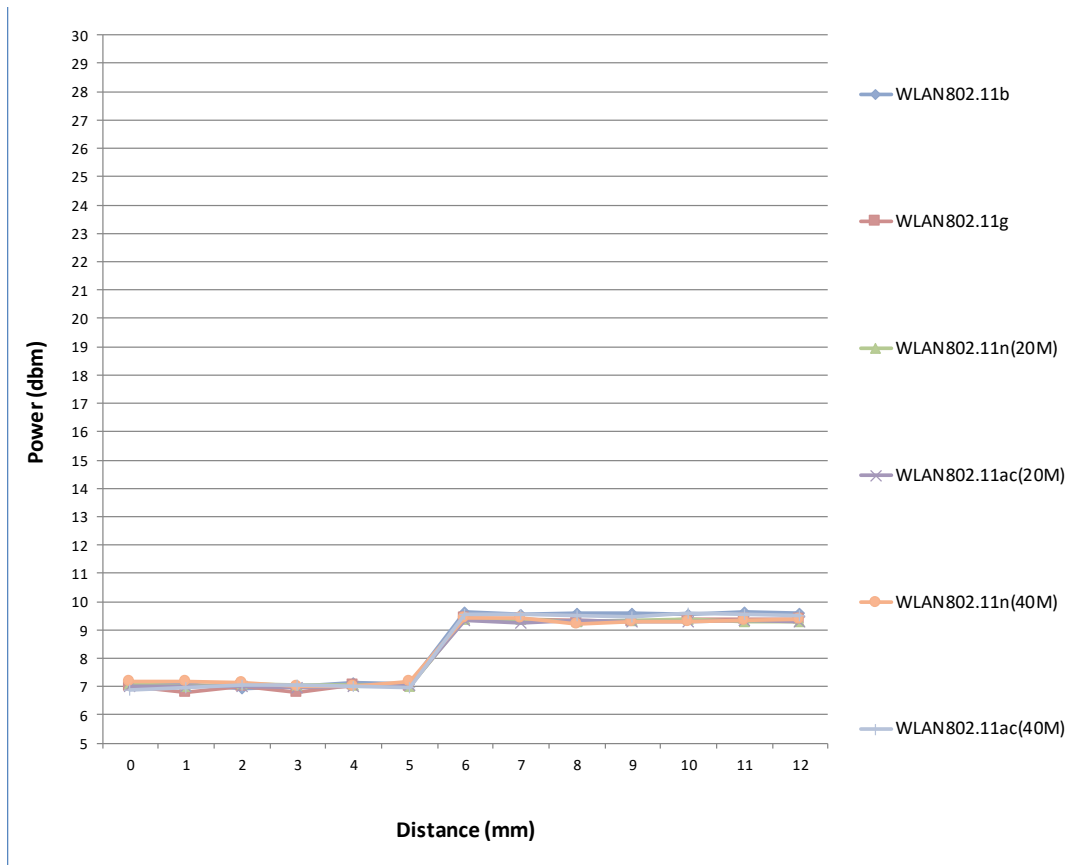
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### WLAN Hotspot mode

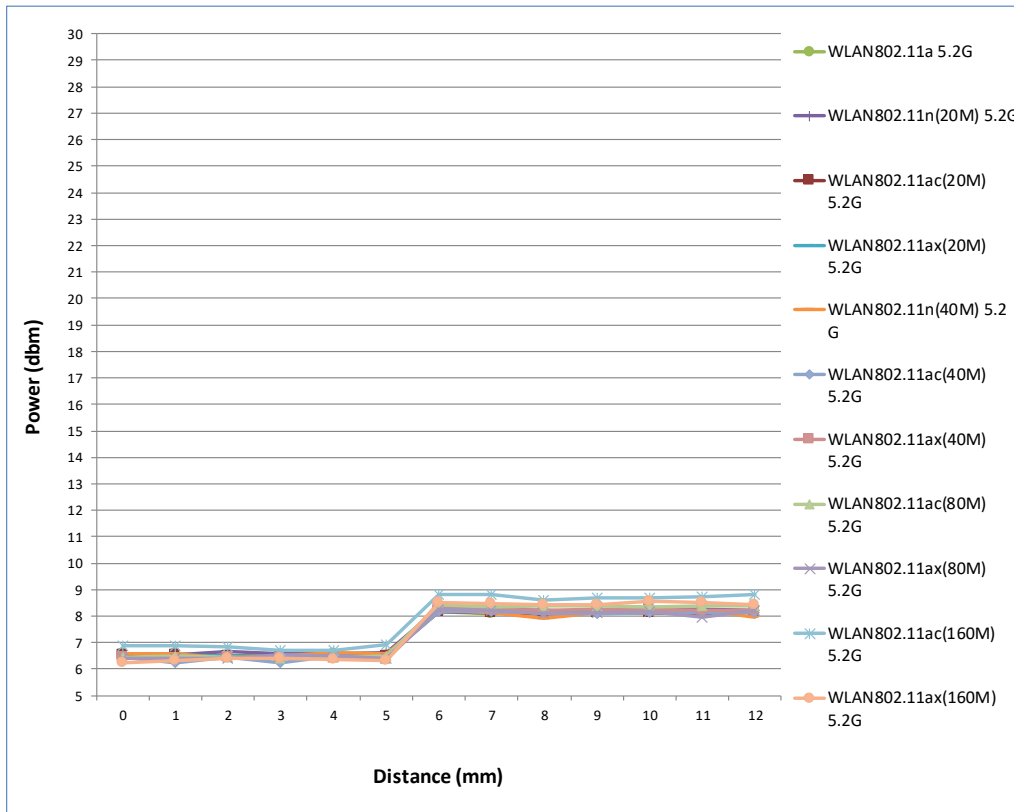
#### Tx1



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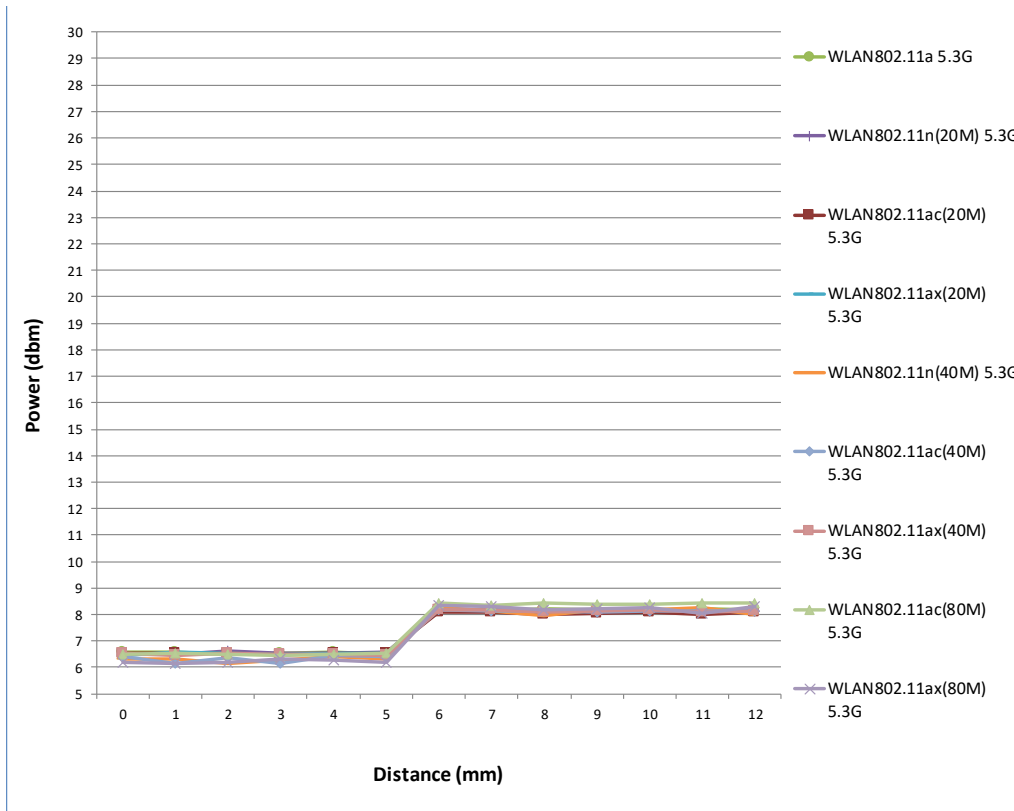
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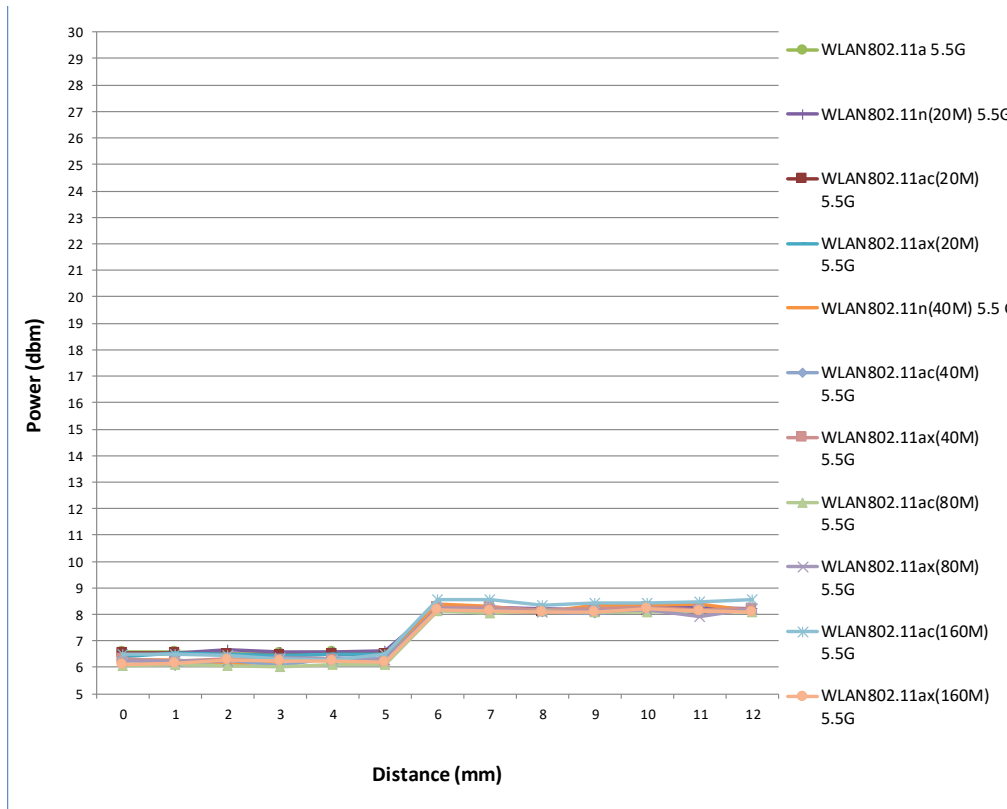
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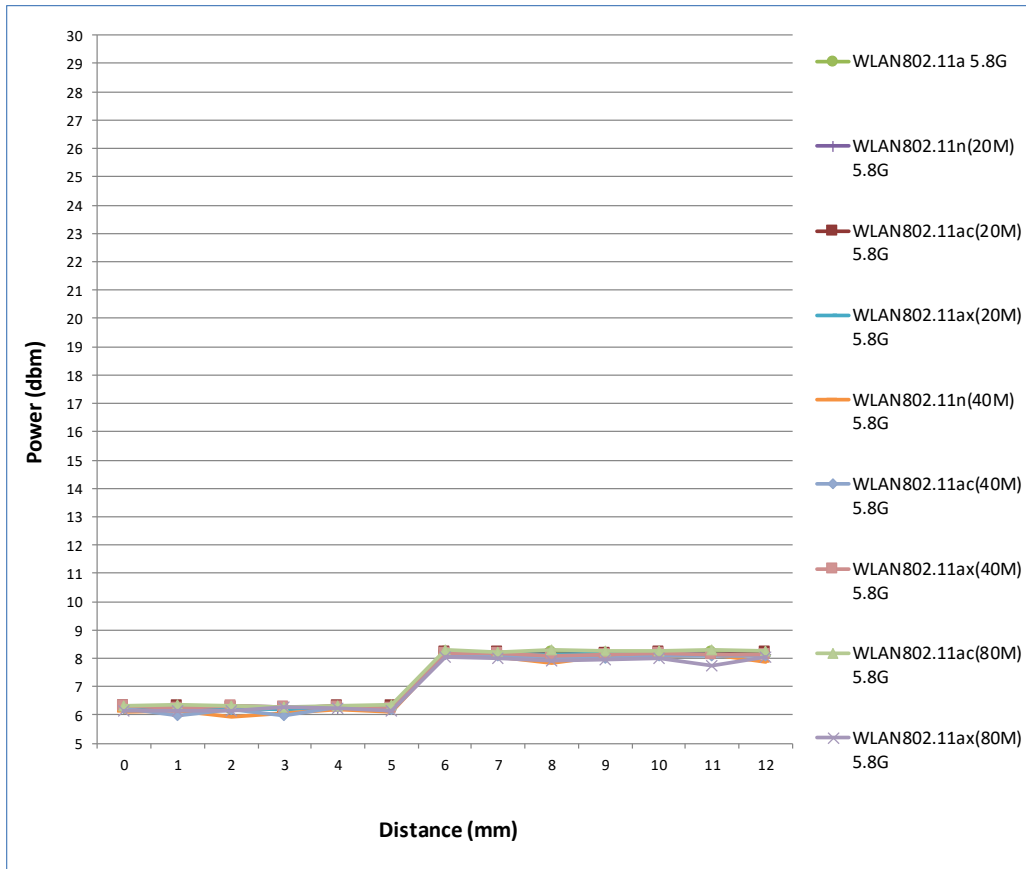
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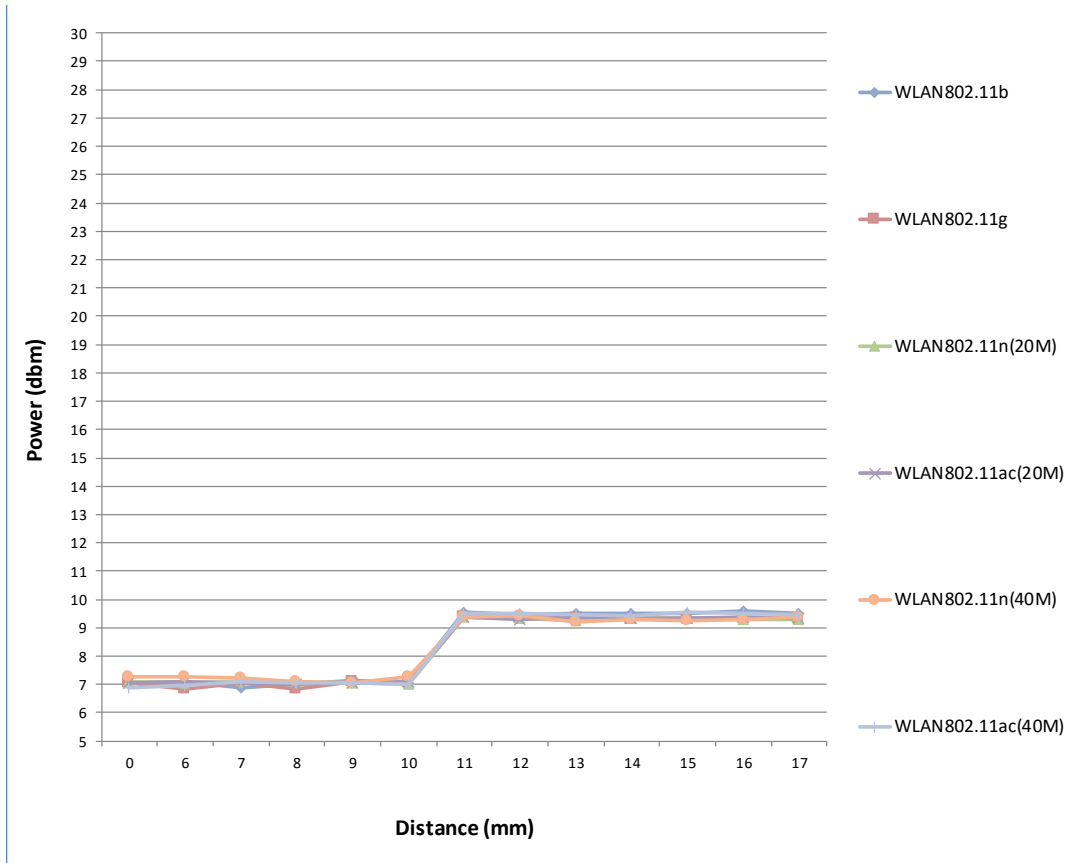
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### WLAN Hotspot mode

#### Tx2

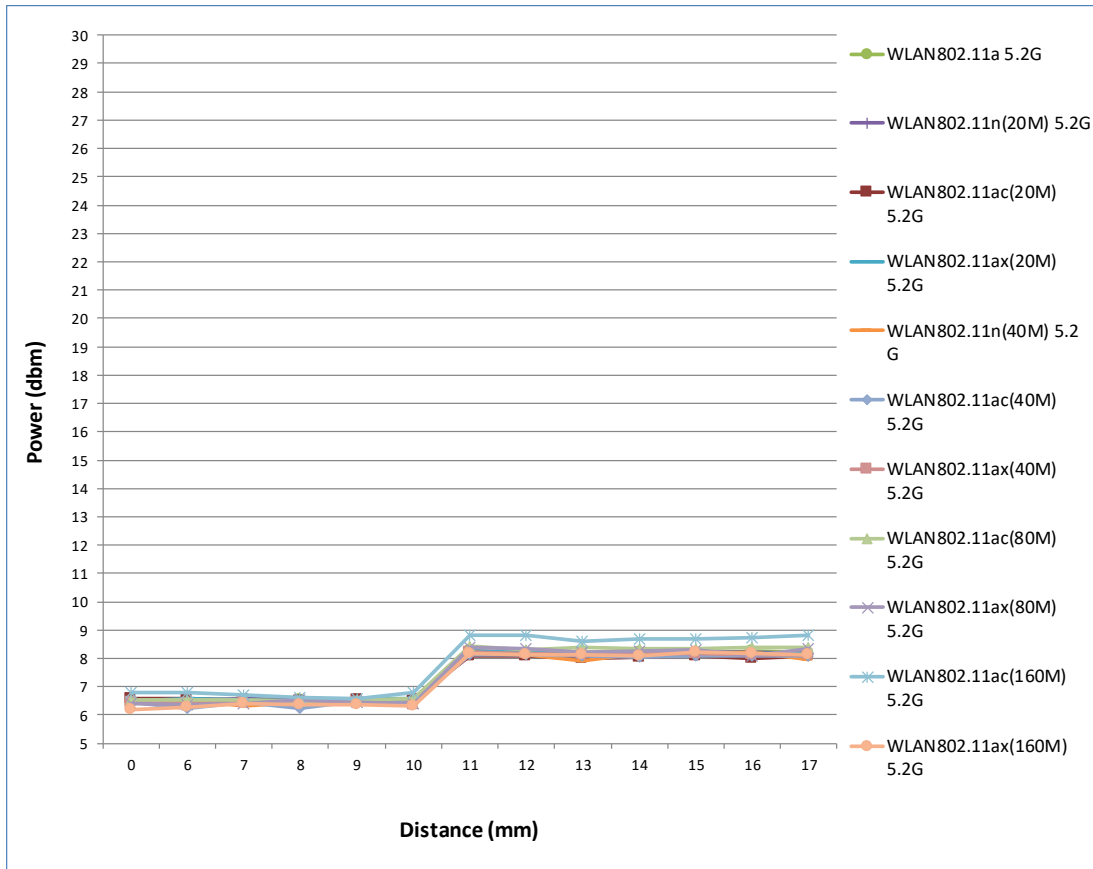


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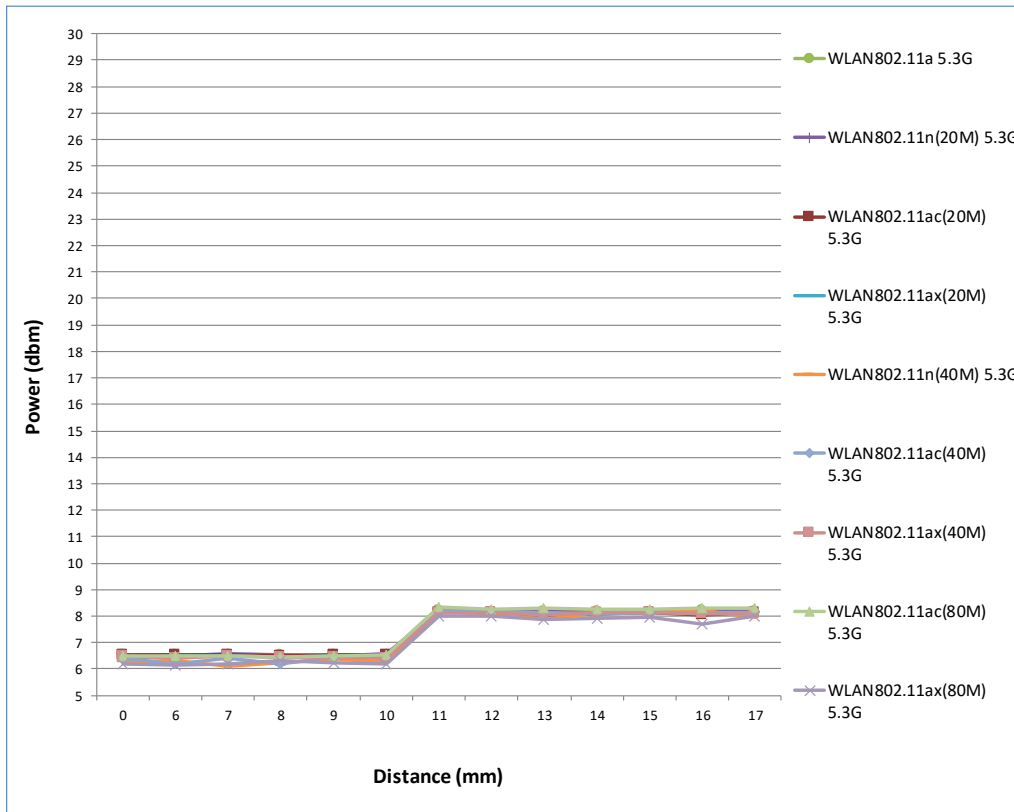




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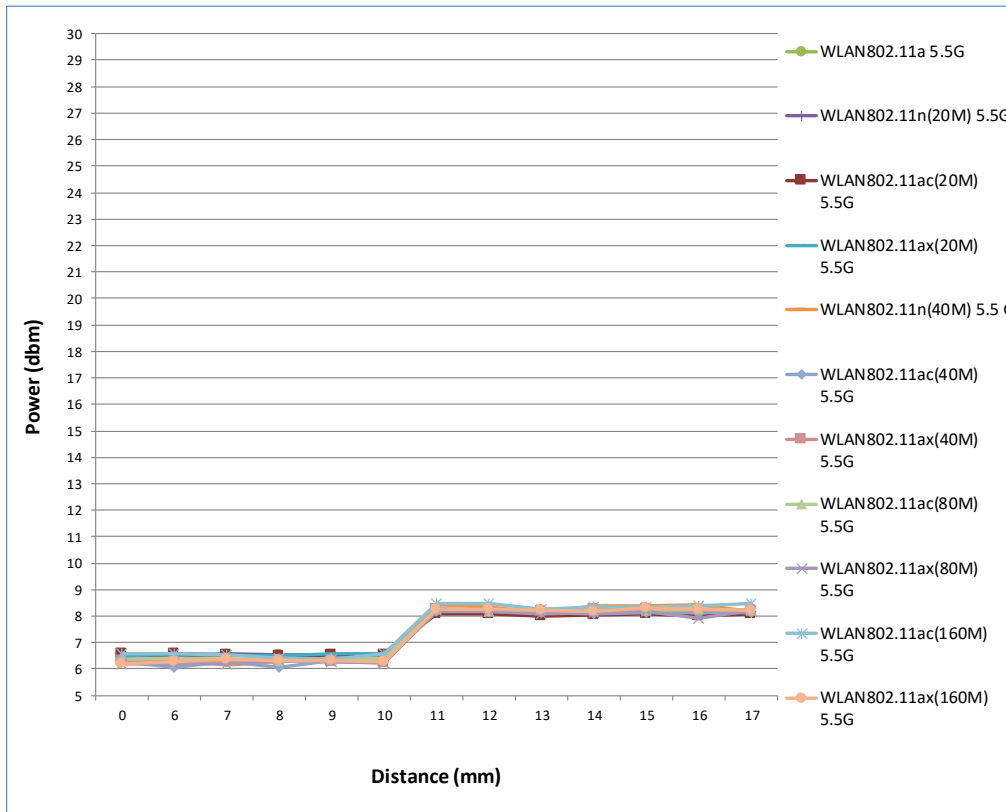
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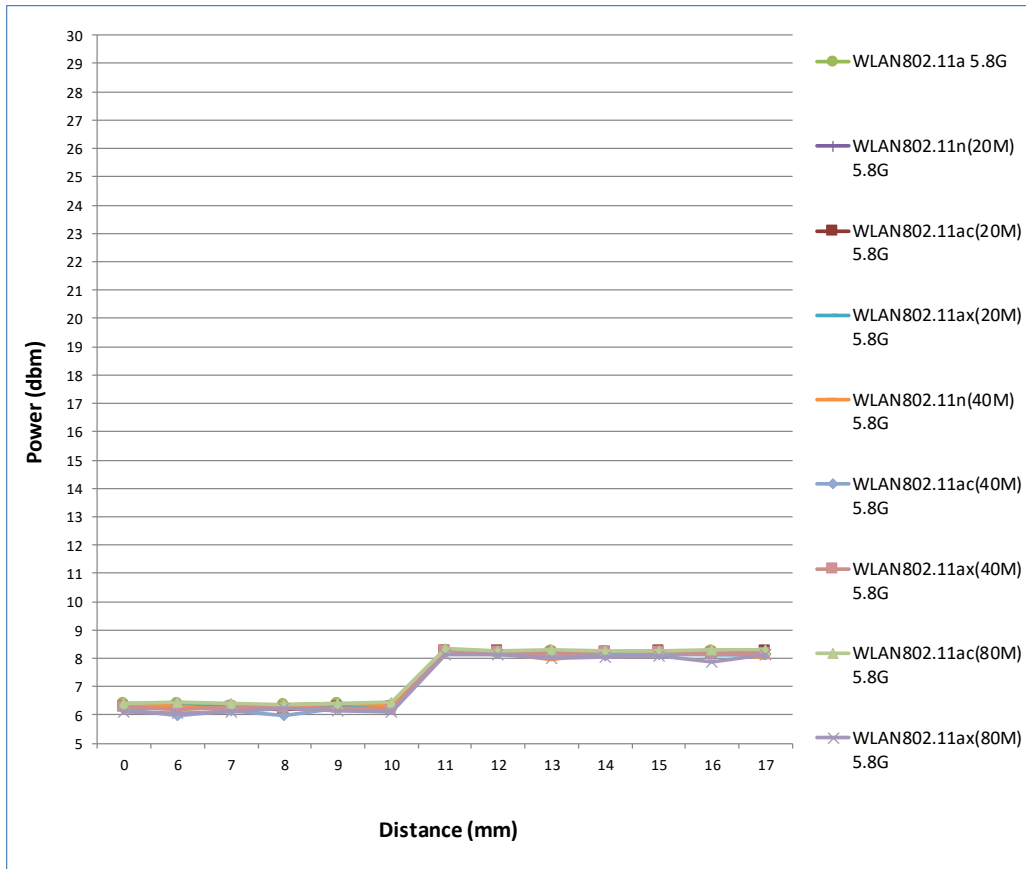
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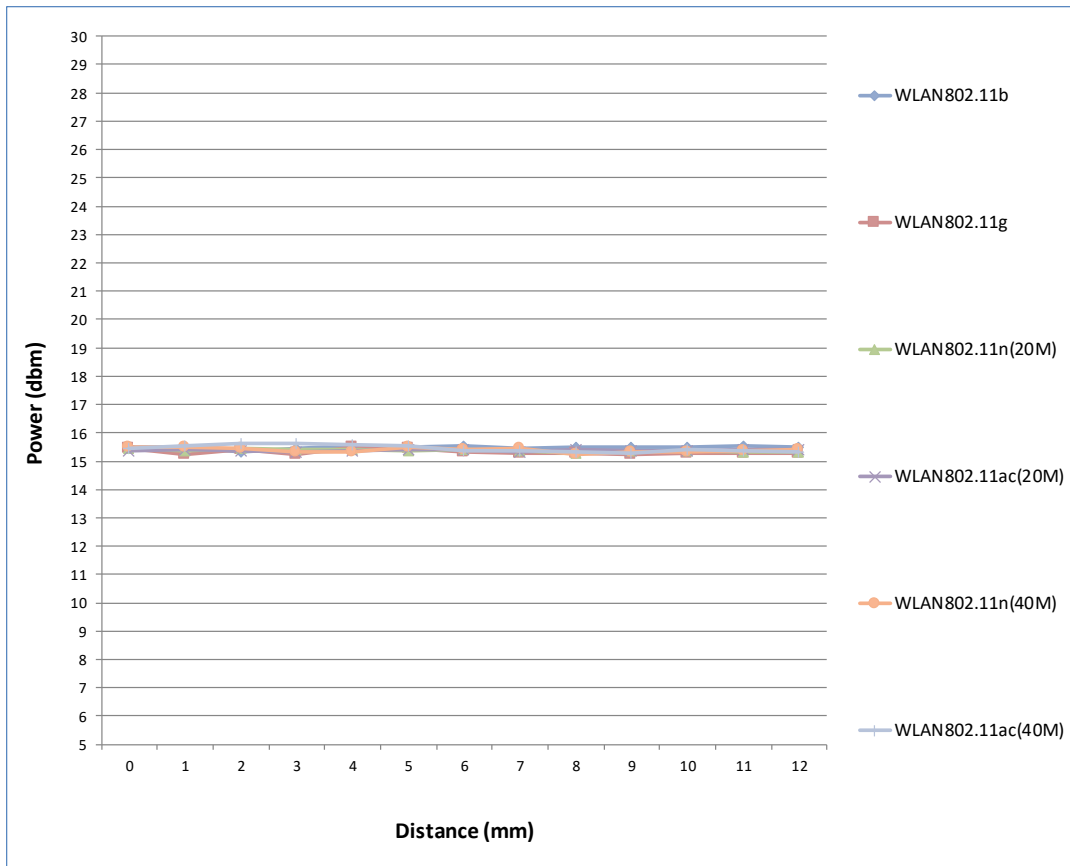
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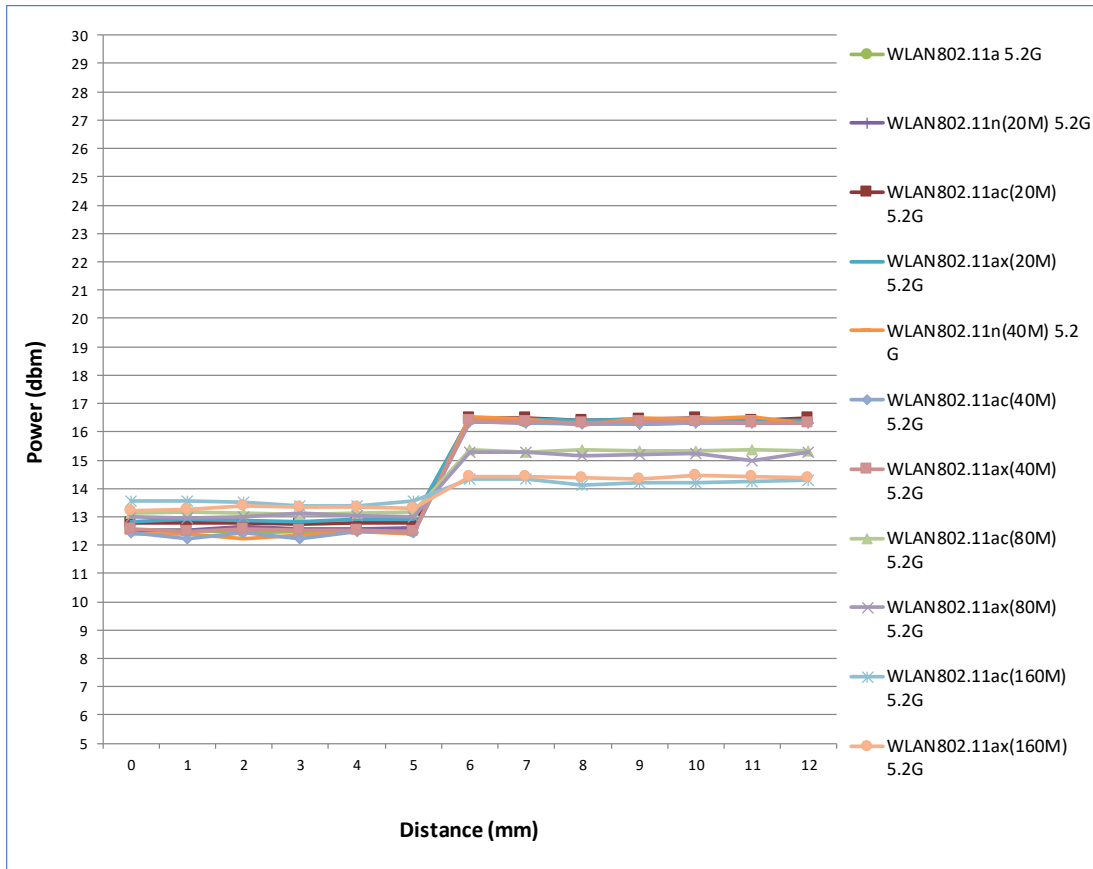
Tx1



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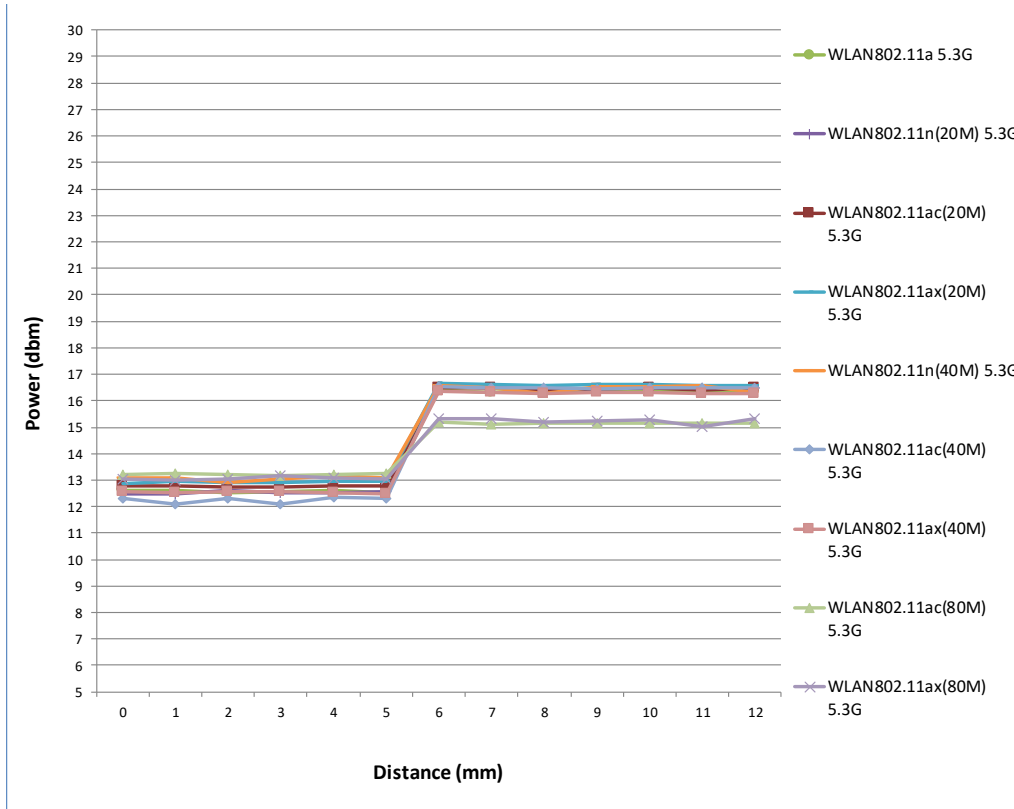
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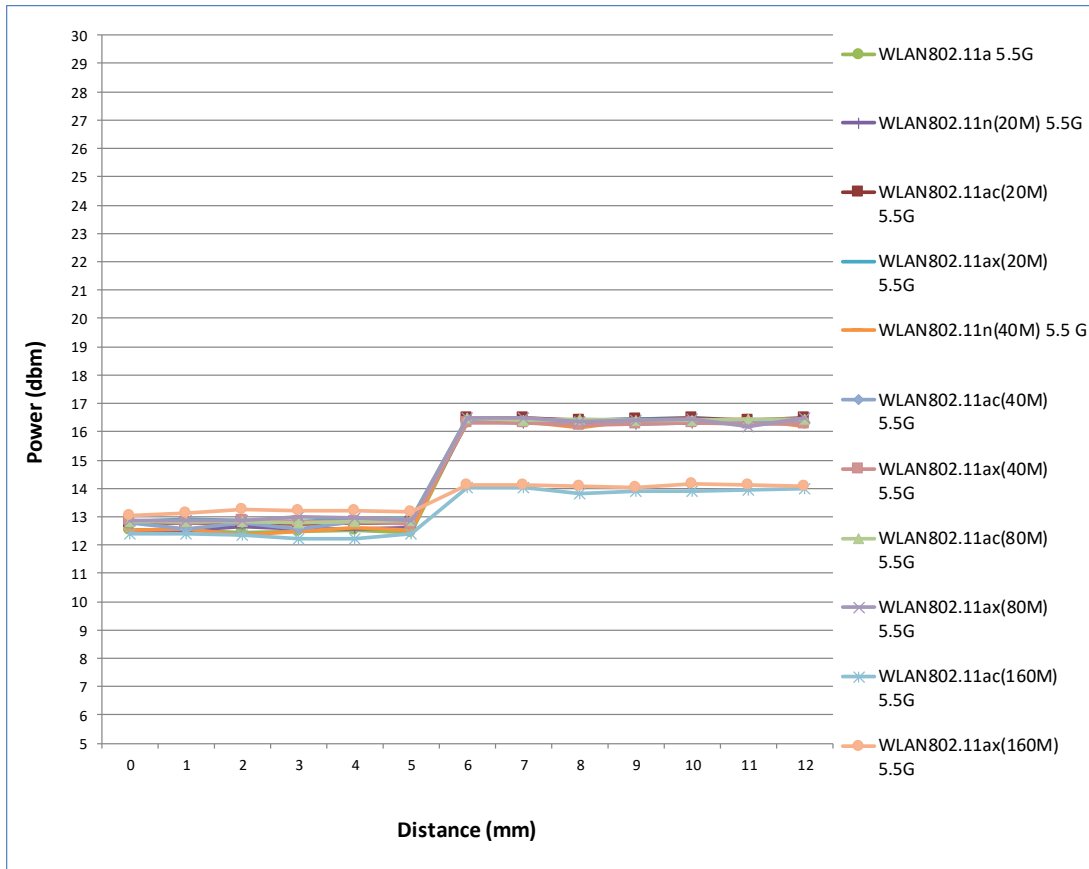
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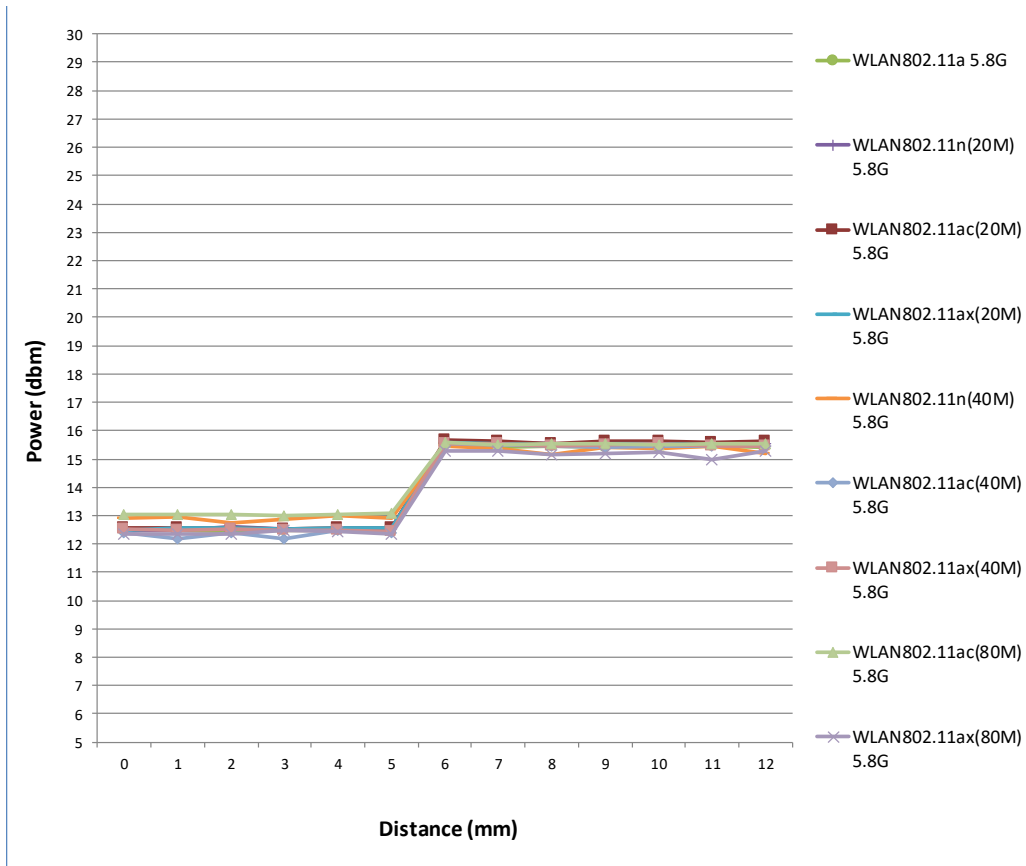


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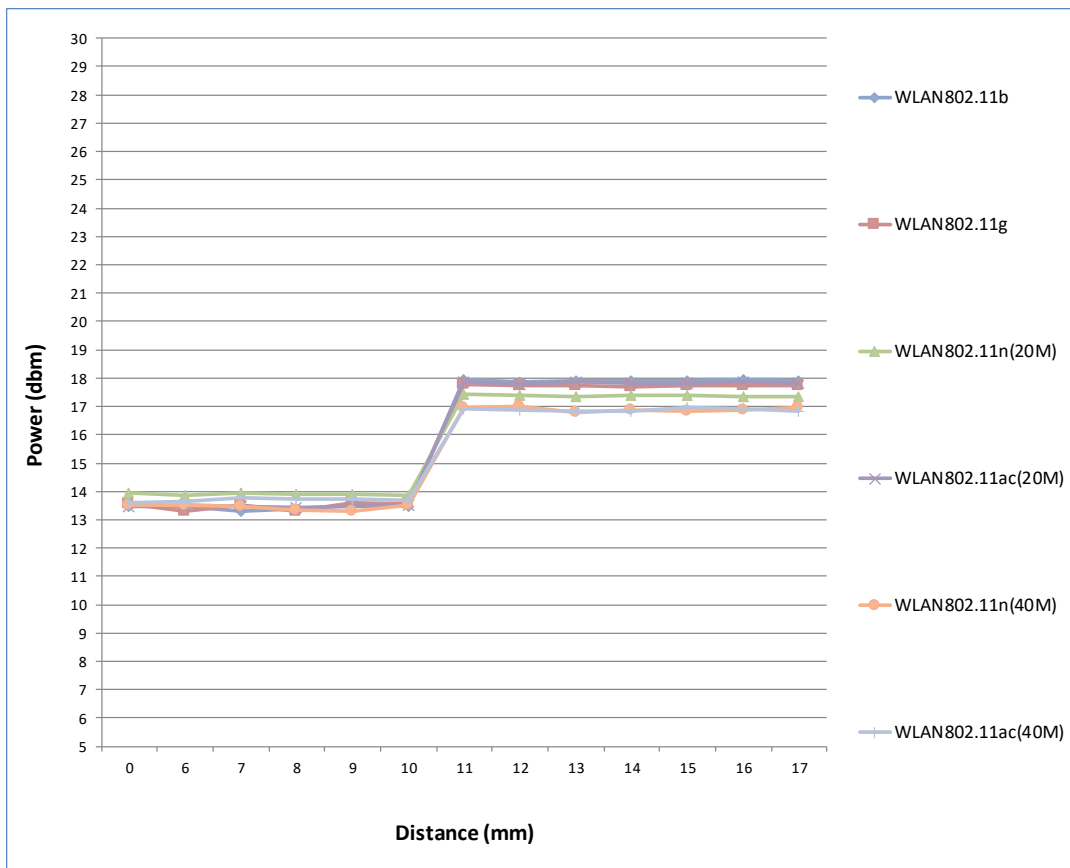
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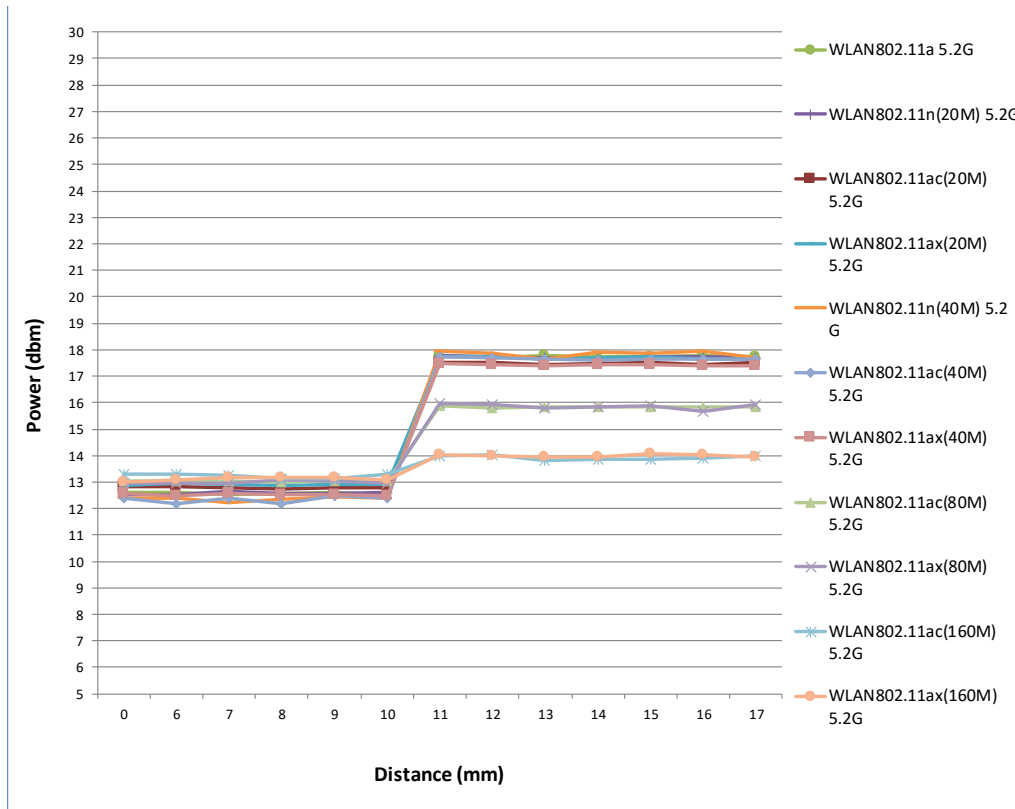
Tx2



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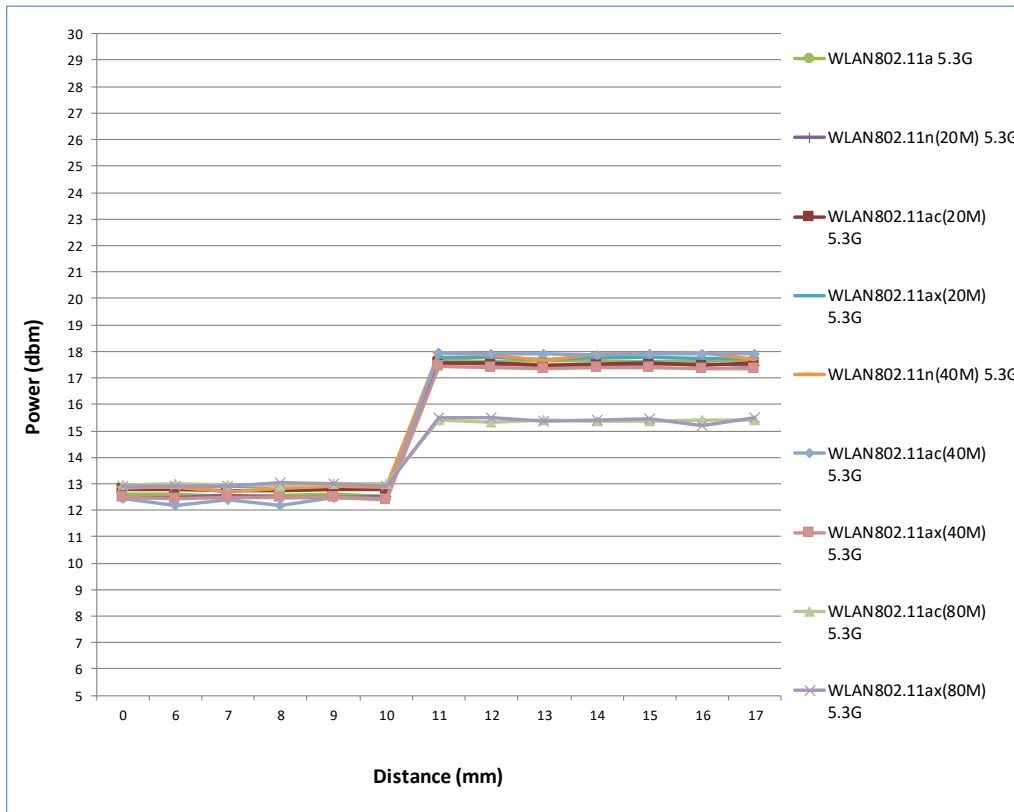
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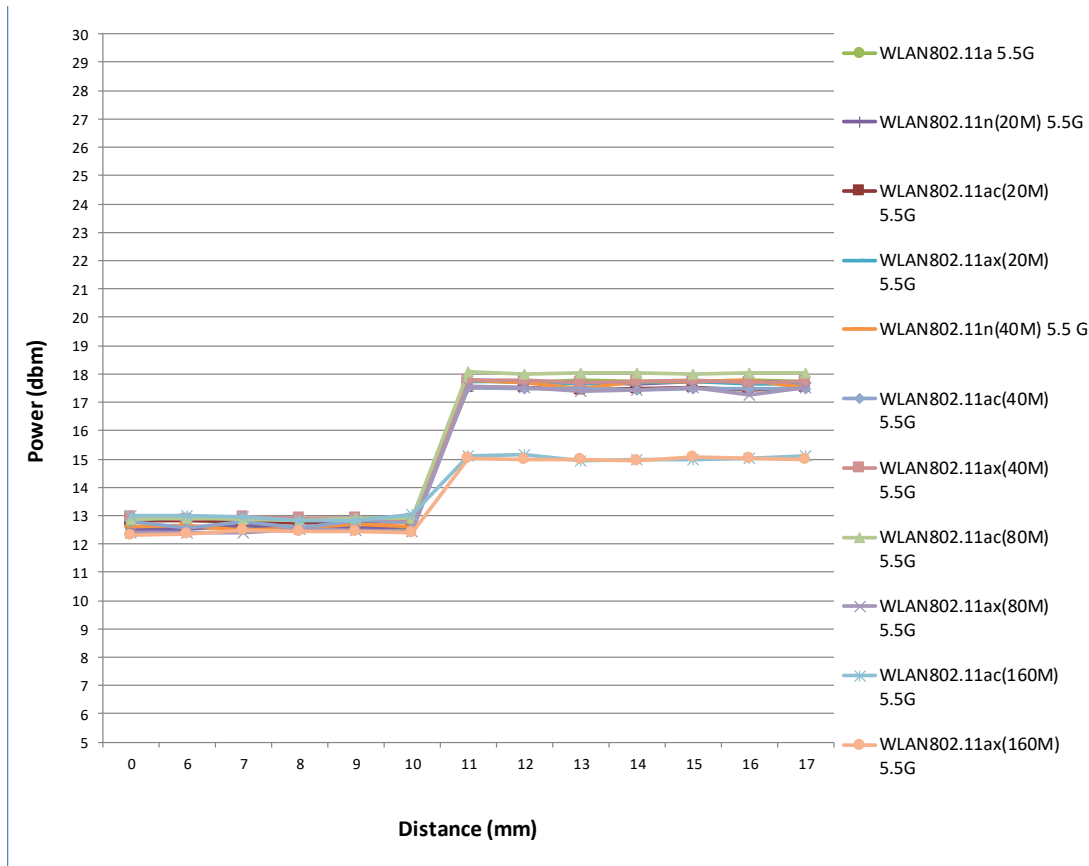
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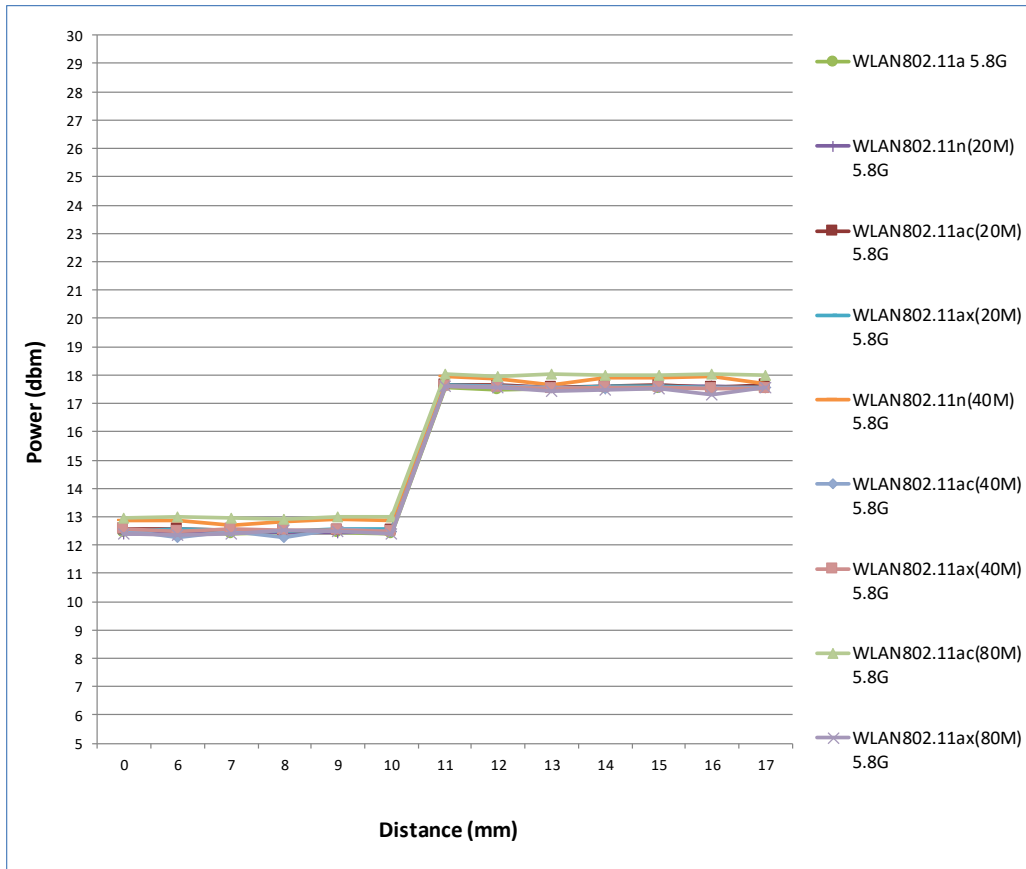
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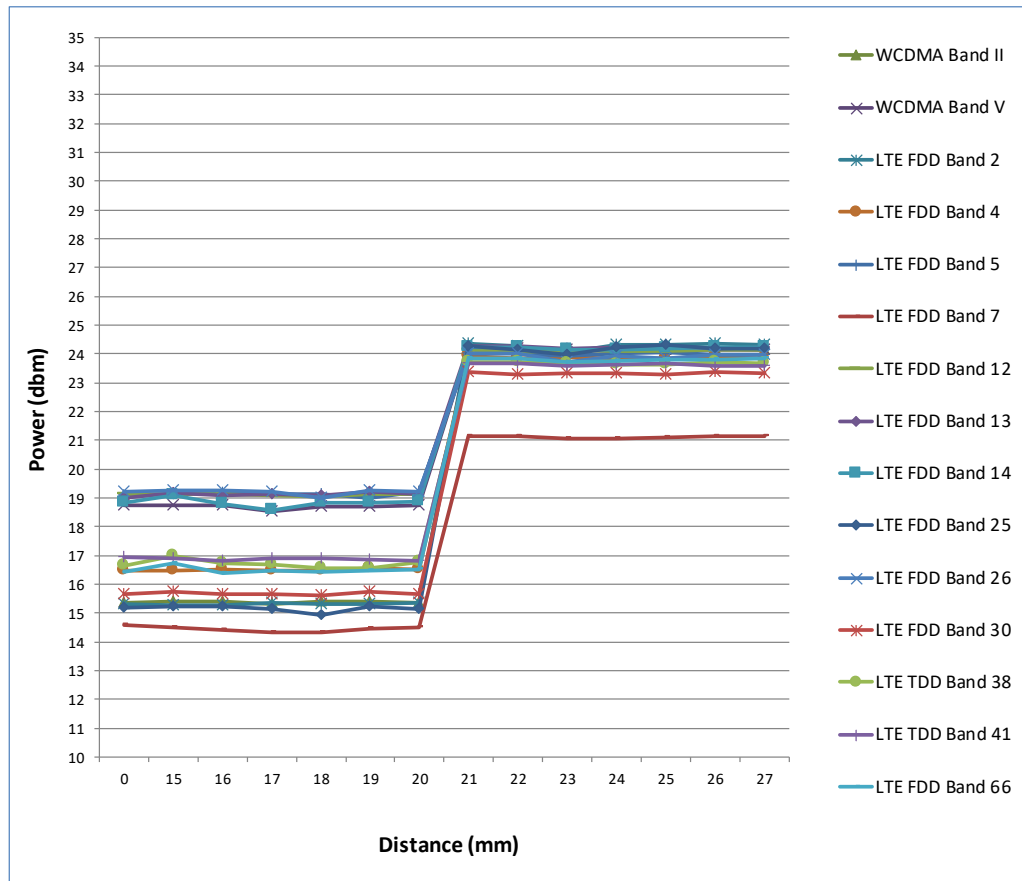
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## Moving device away from the phantom

### WWAN



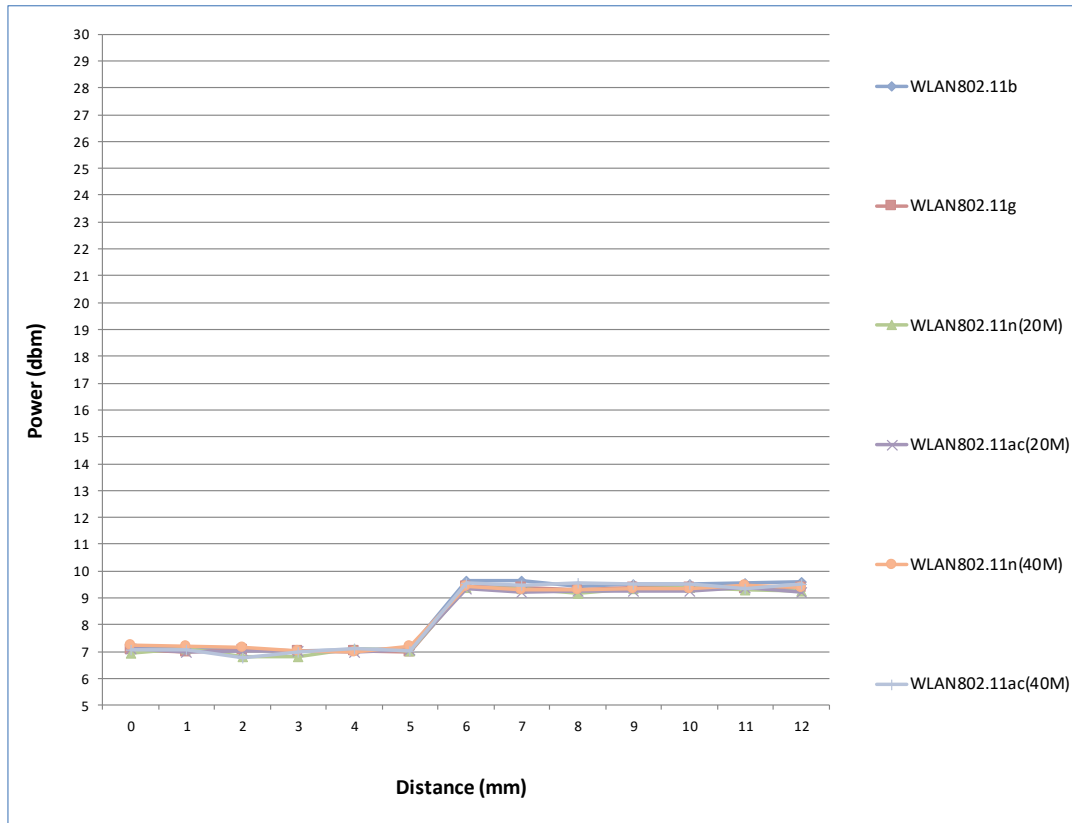
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### WLAN Hotspot mode

#### Tx1

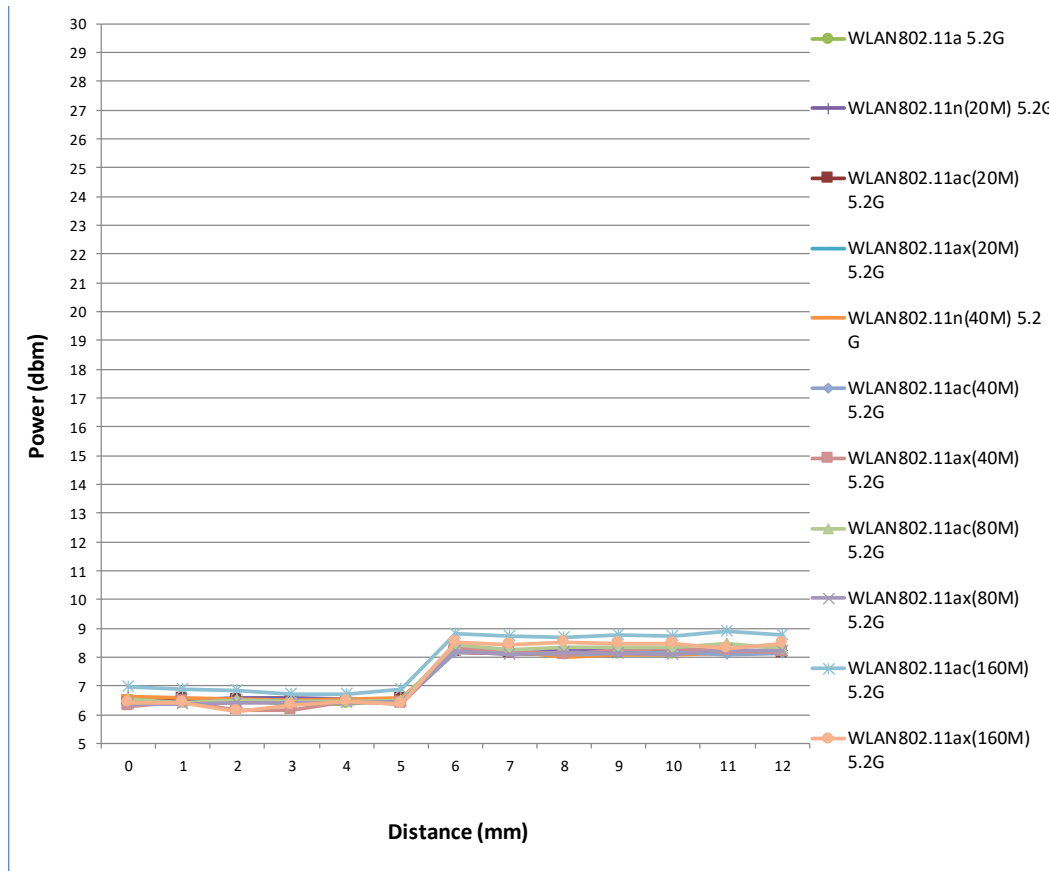


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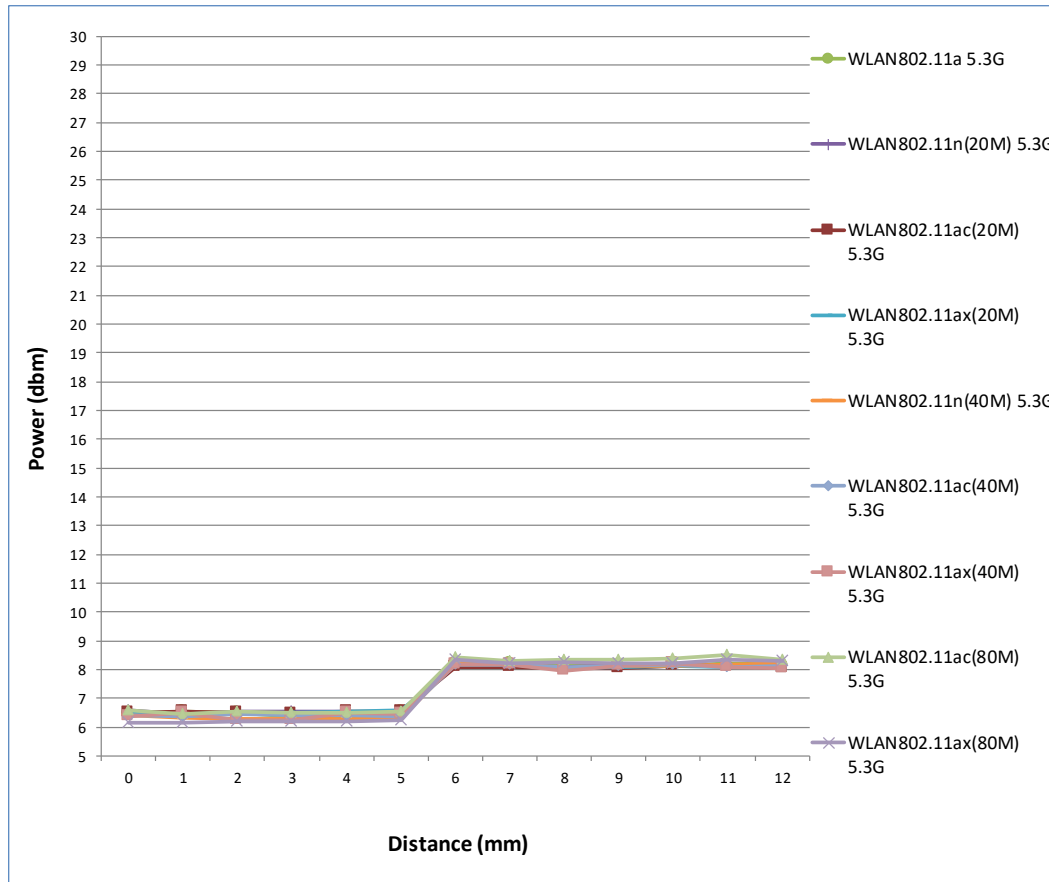




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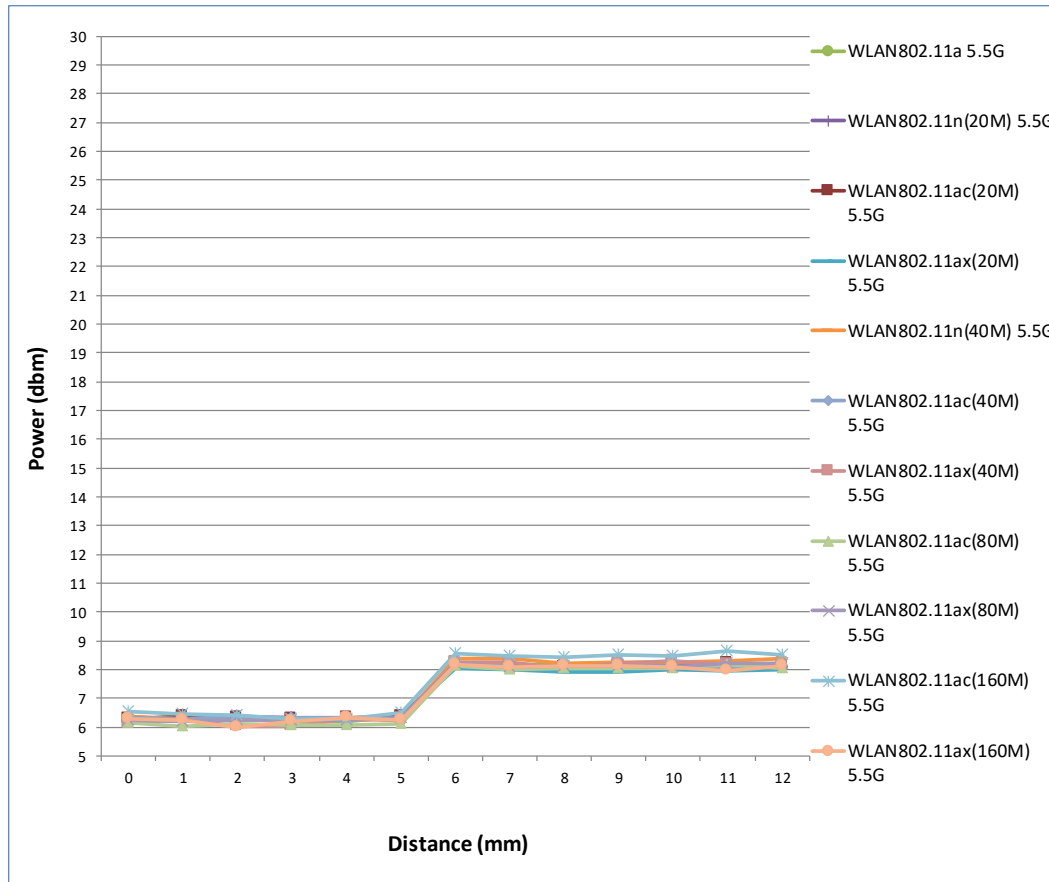
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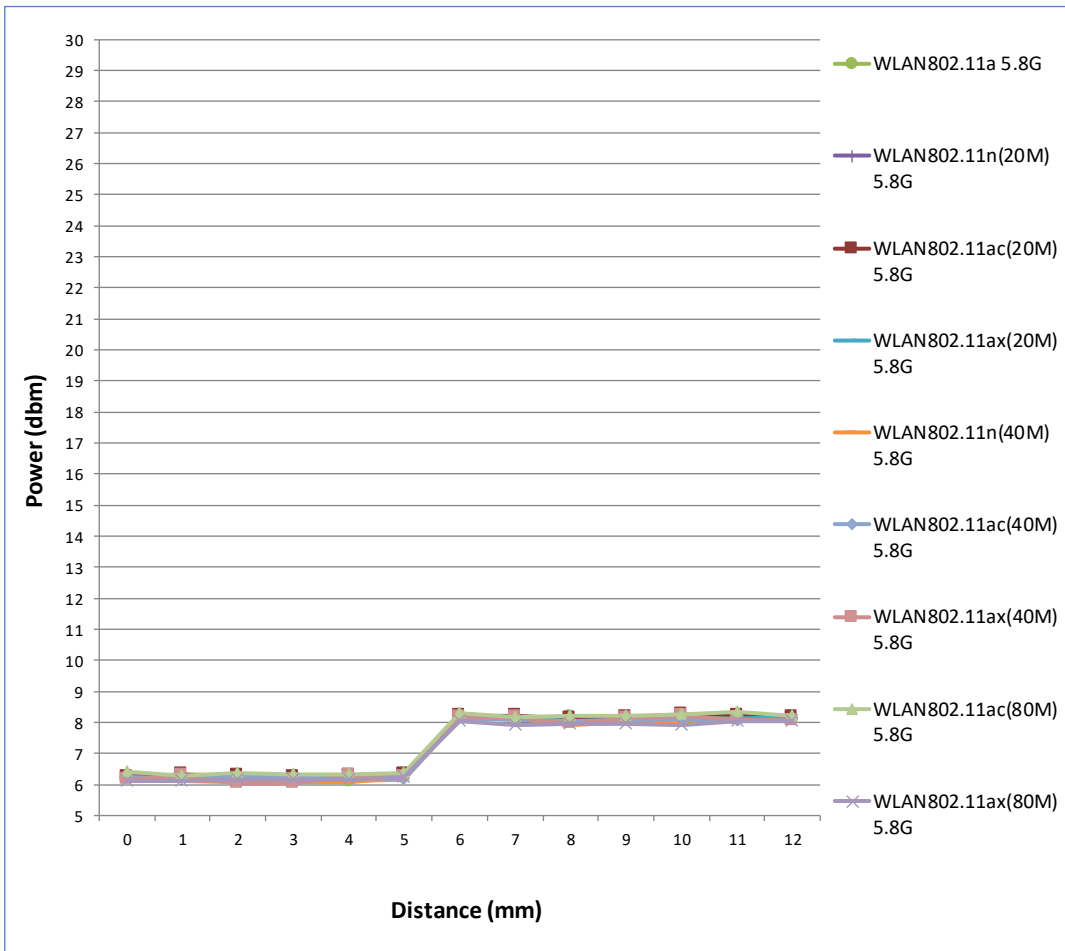
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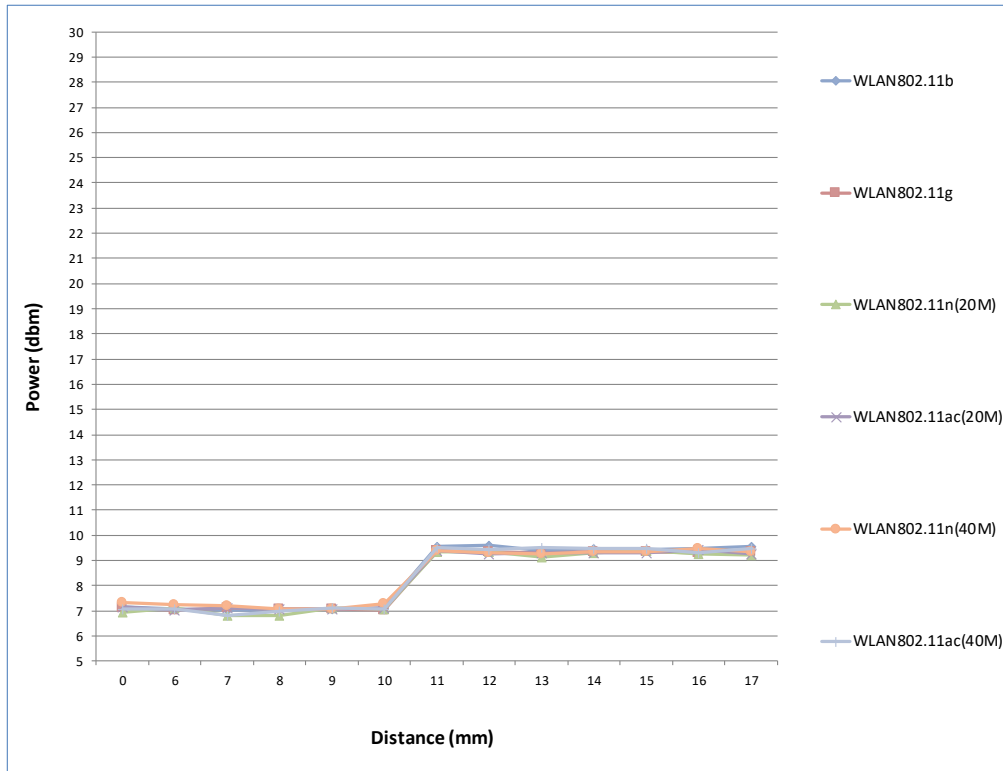
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## WLAN Hotspot mode

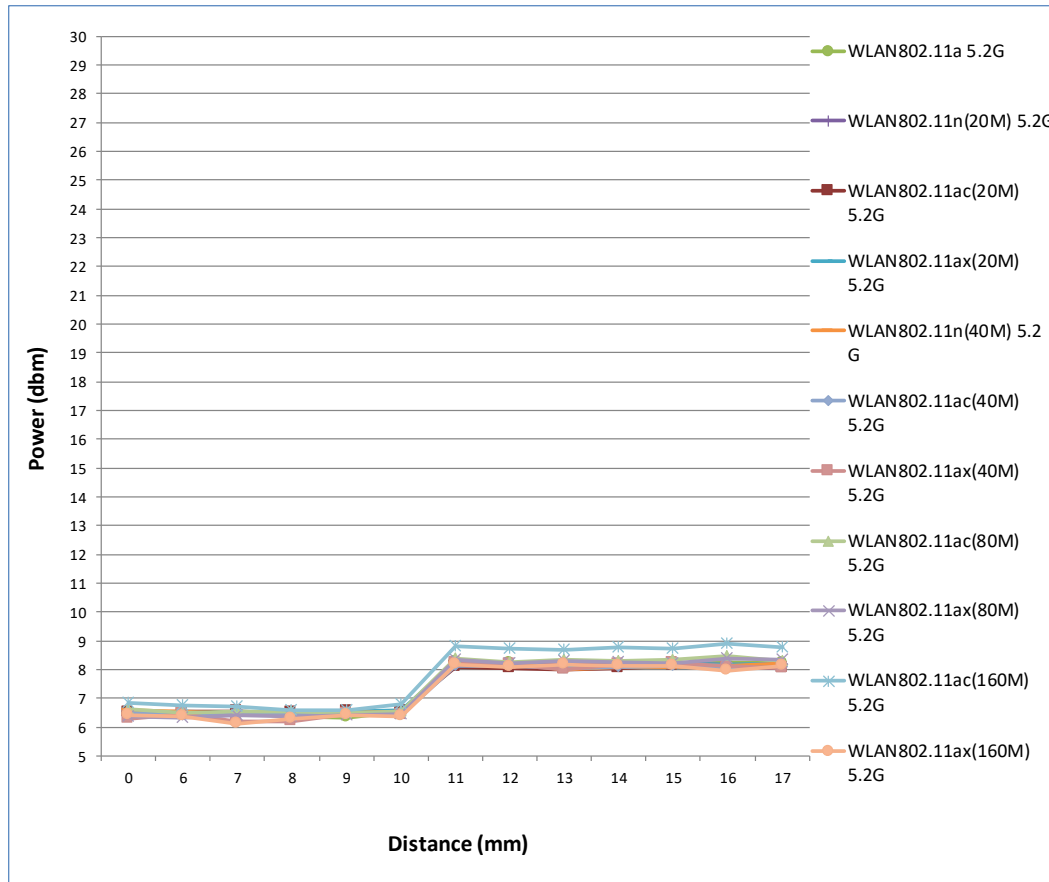
### Tx2



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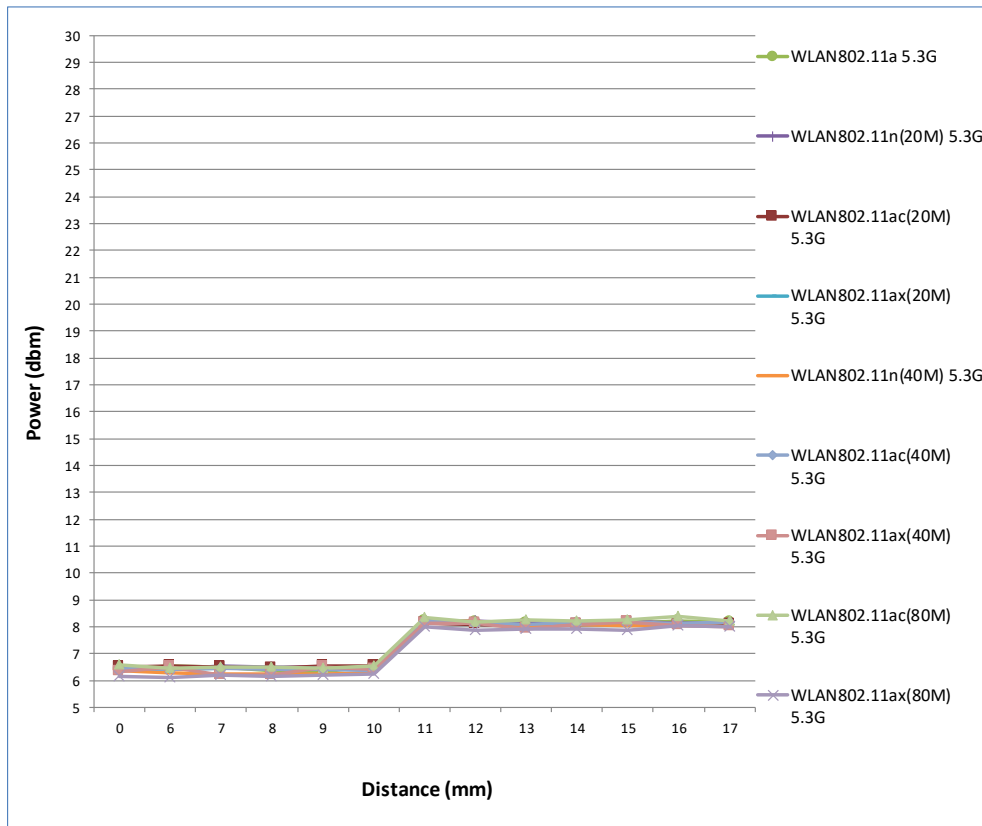
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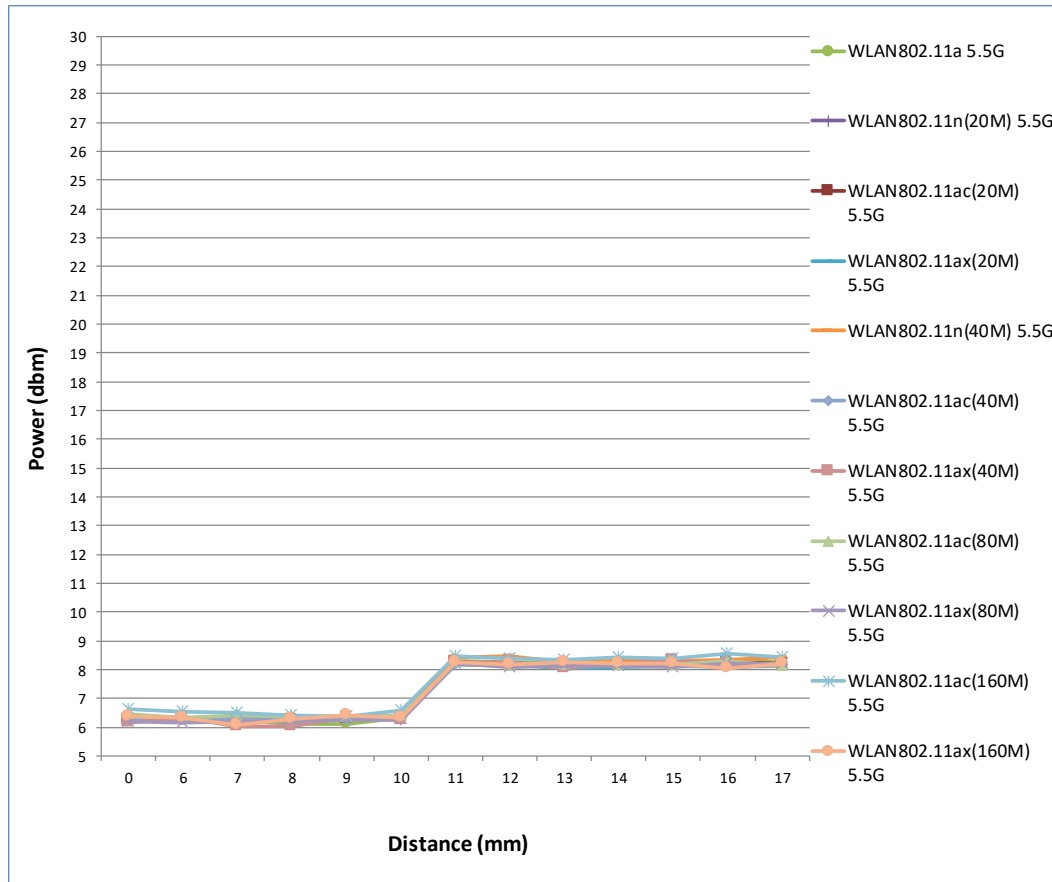
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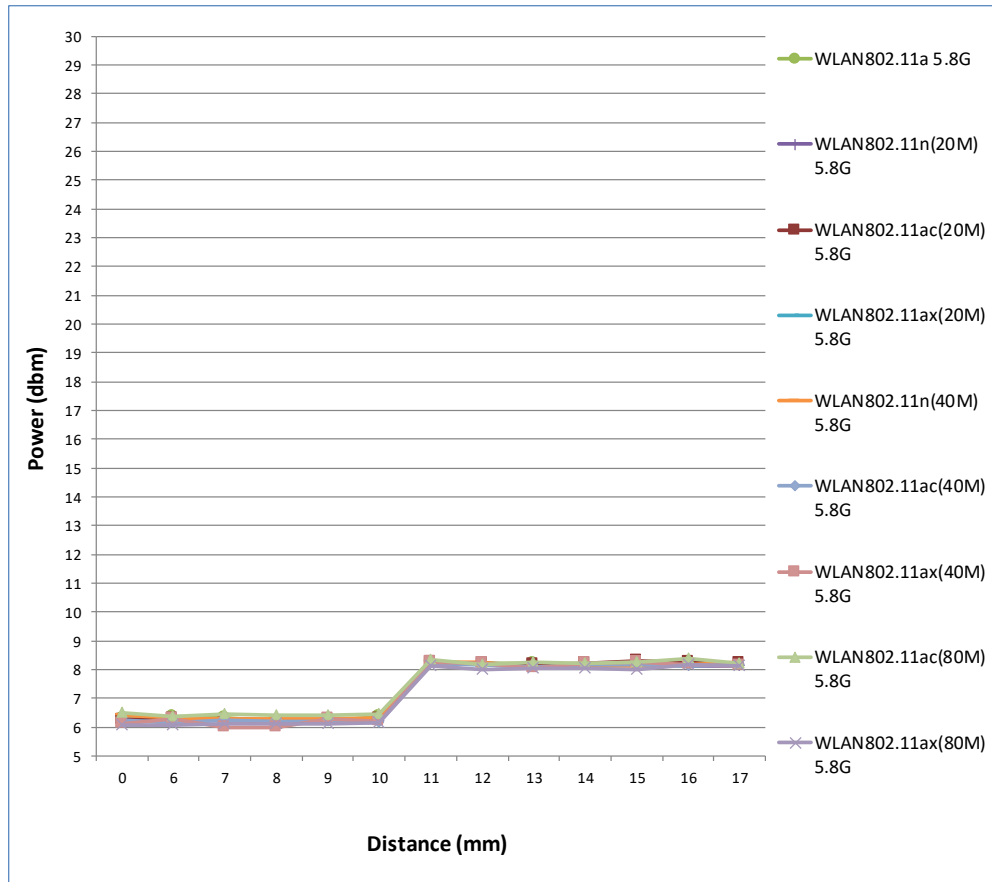


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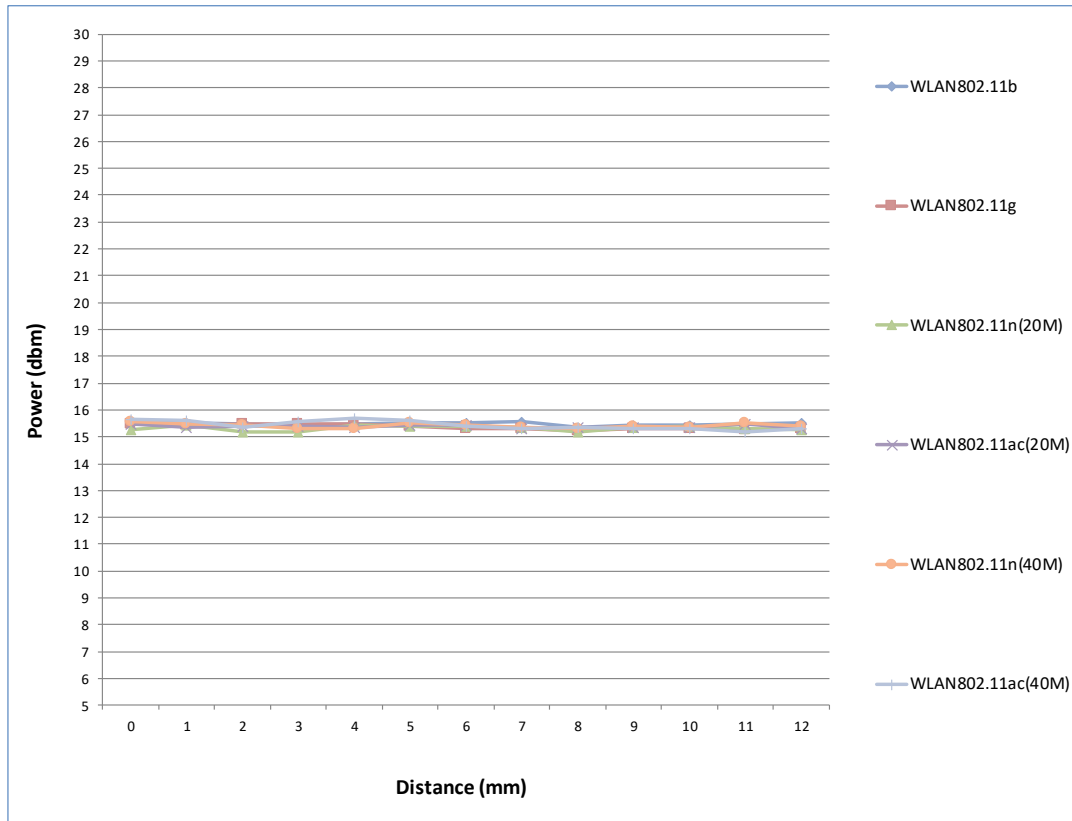
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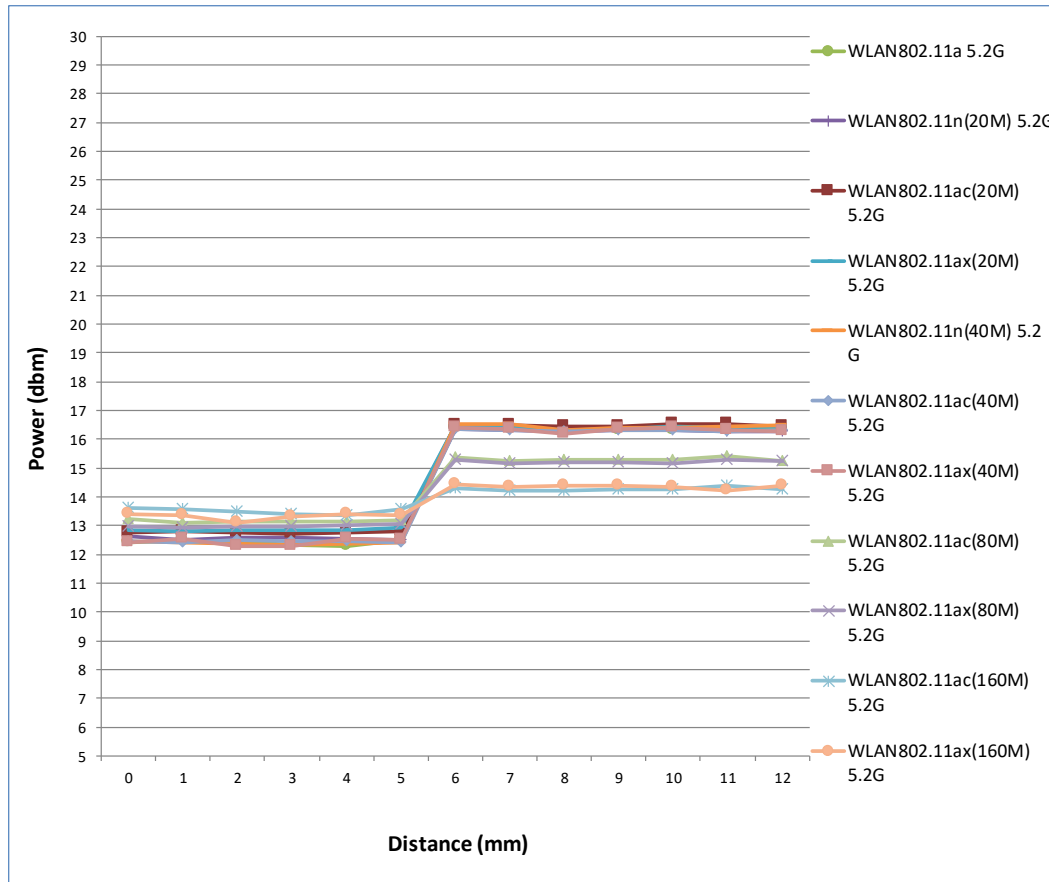
Tx1



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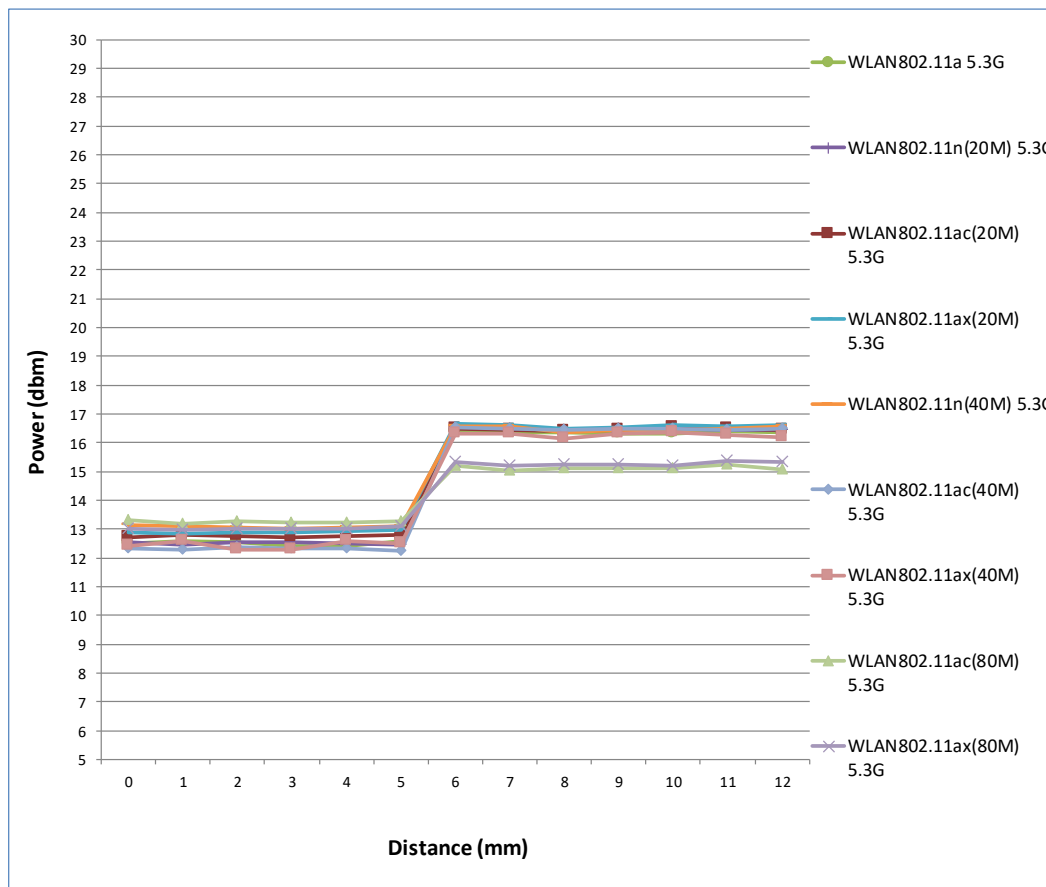
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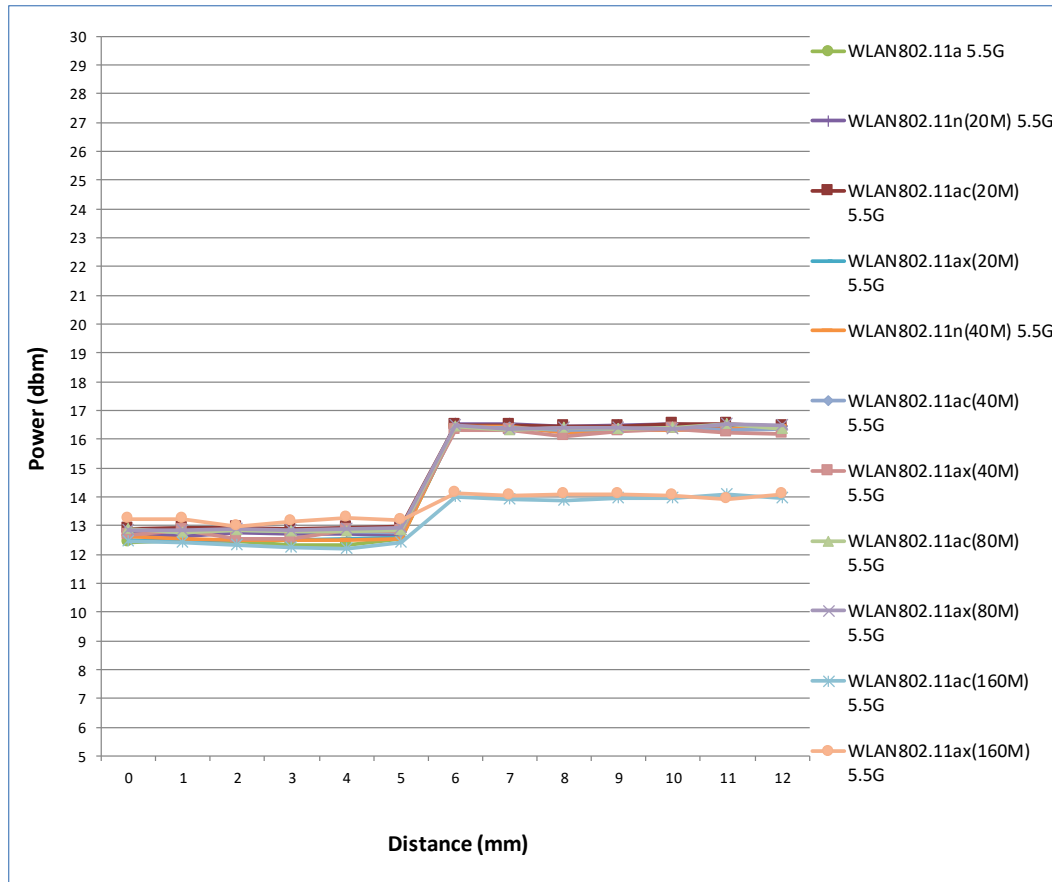
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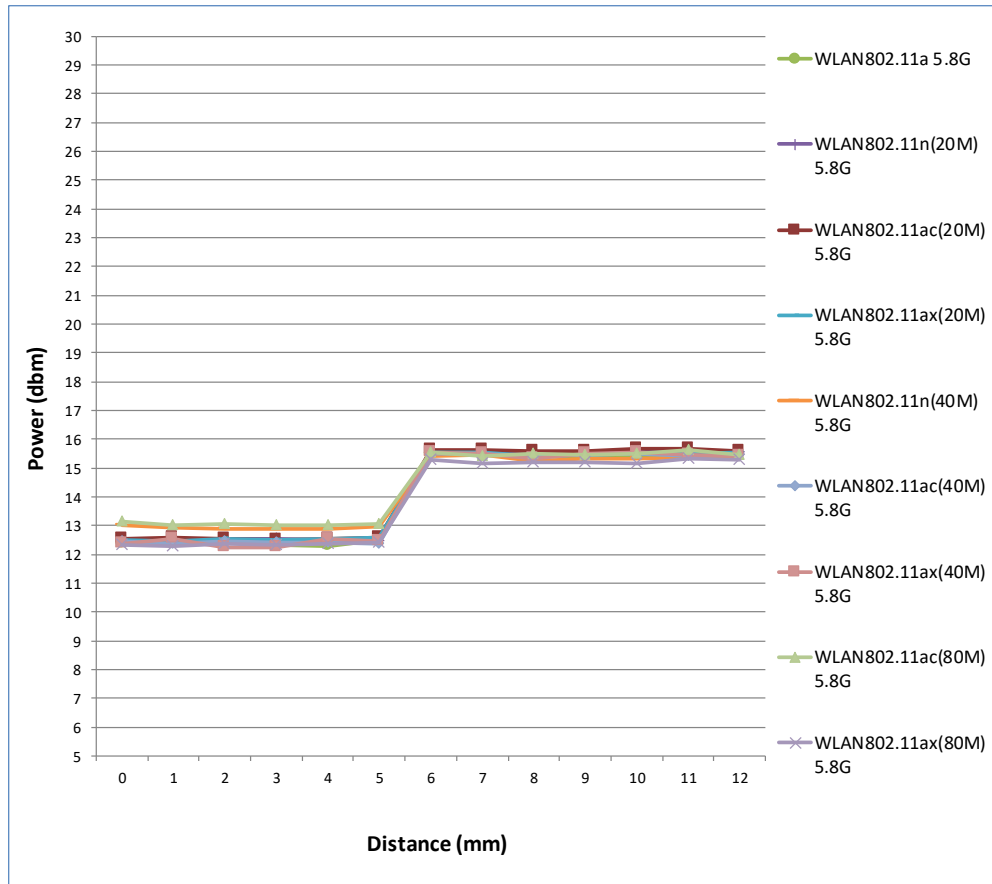
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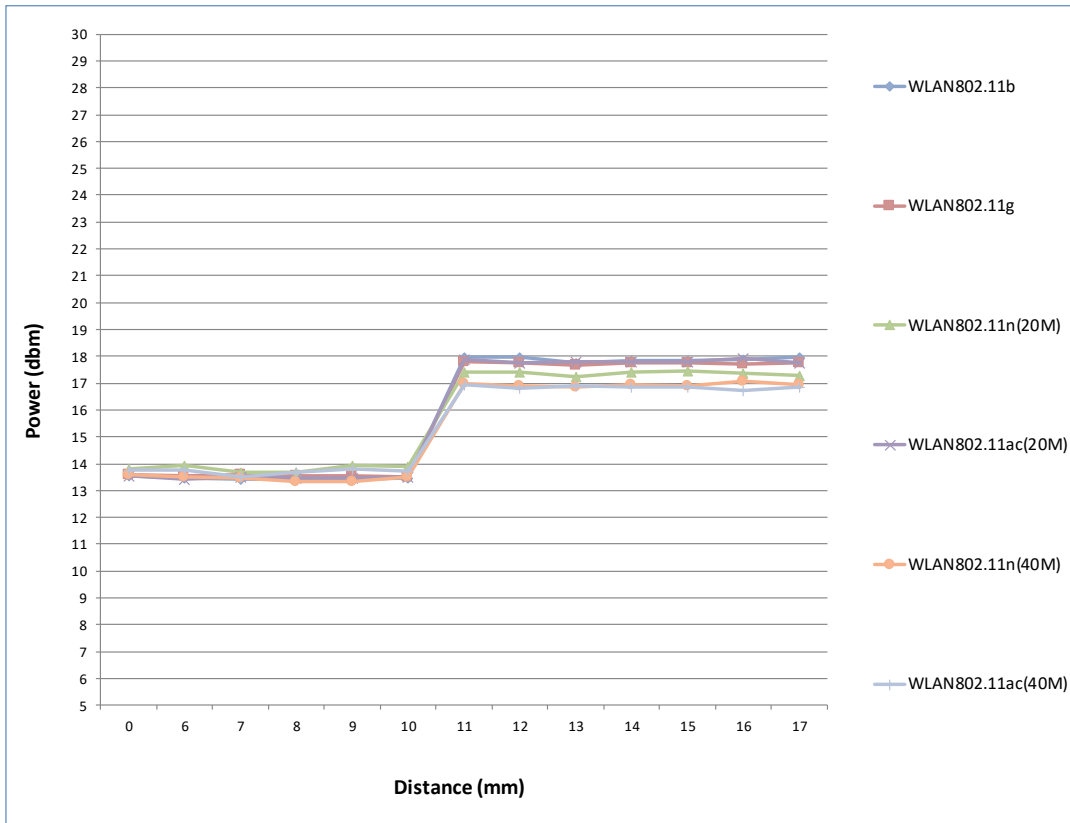
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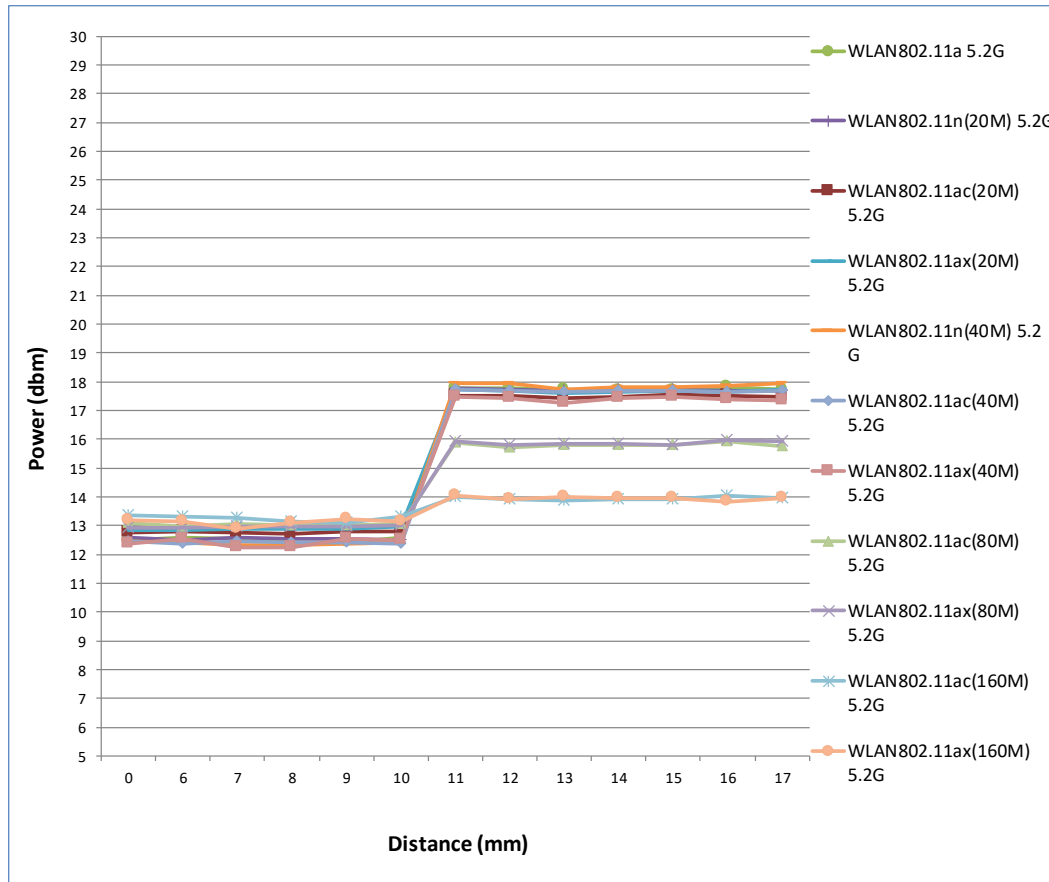
Tx2



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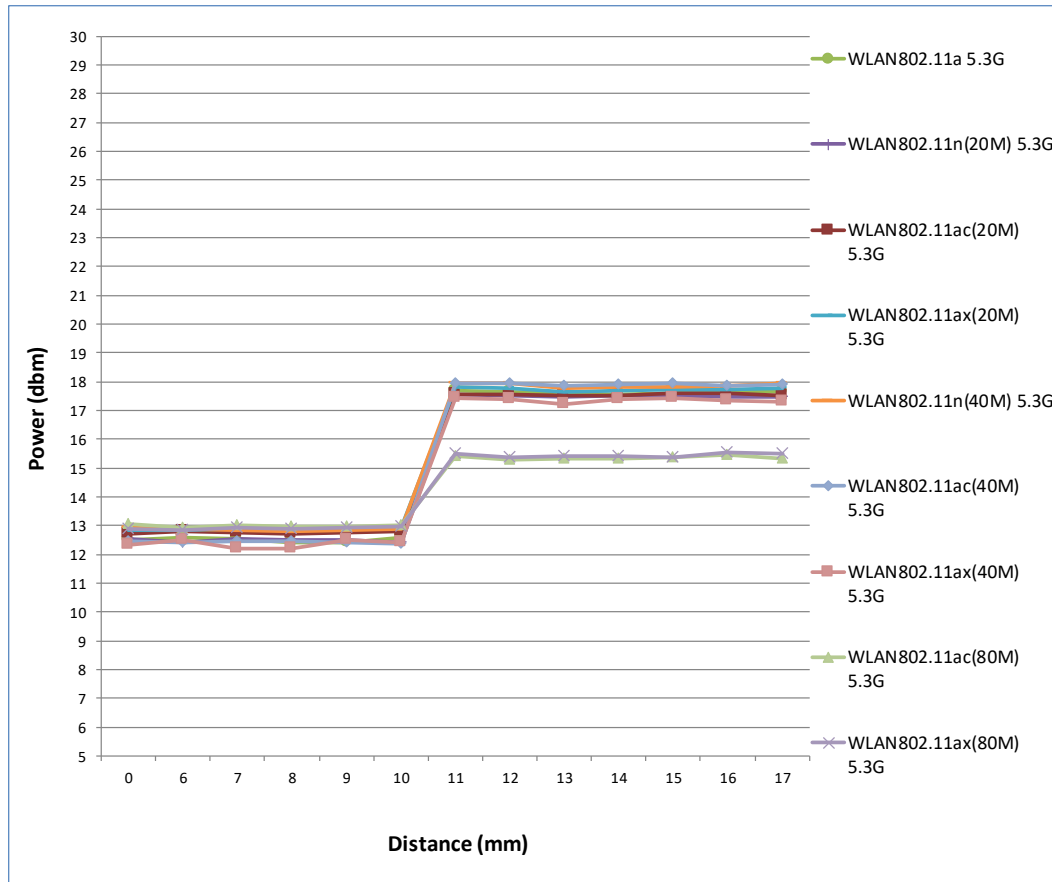


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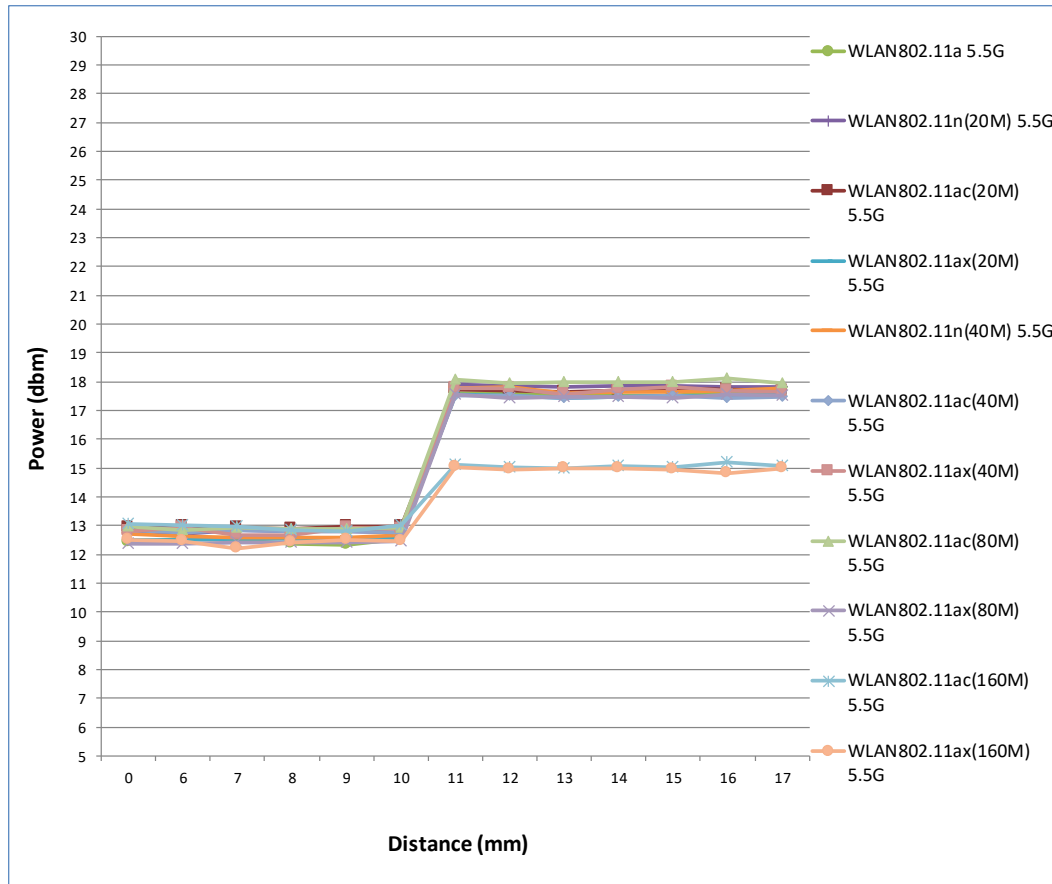




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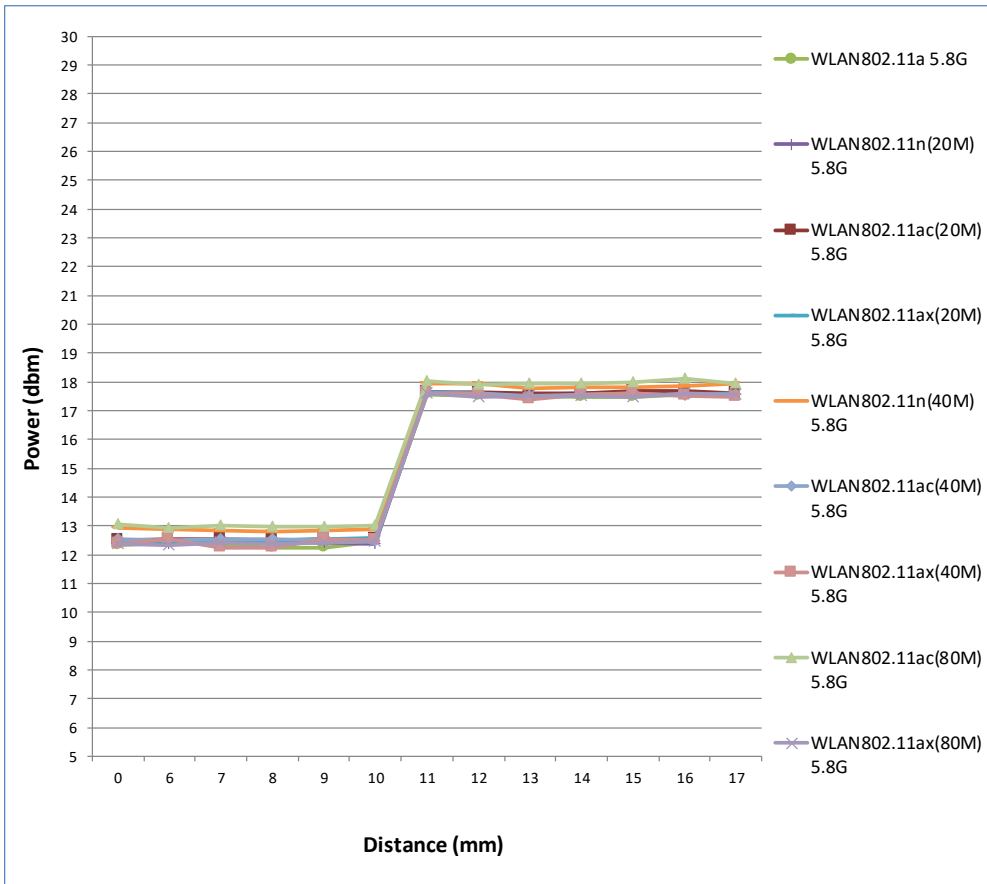
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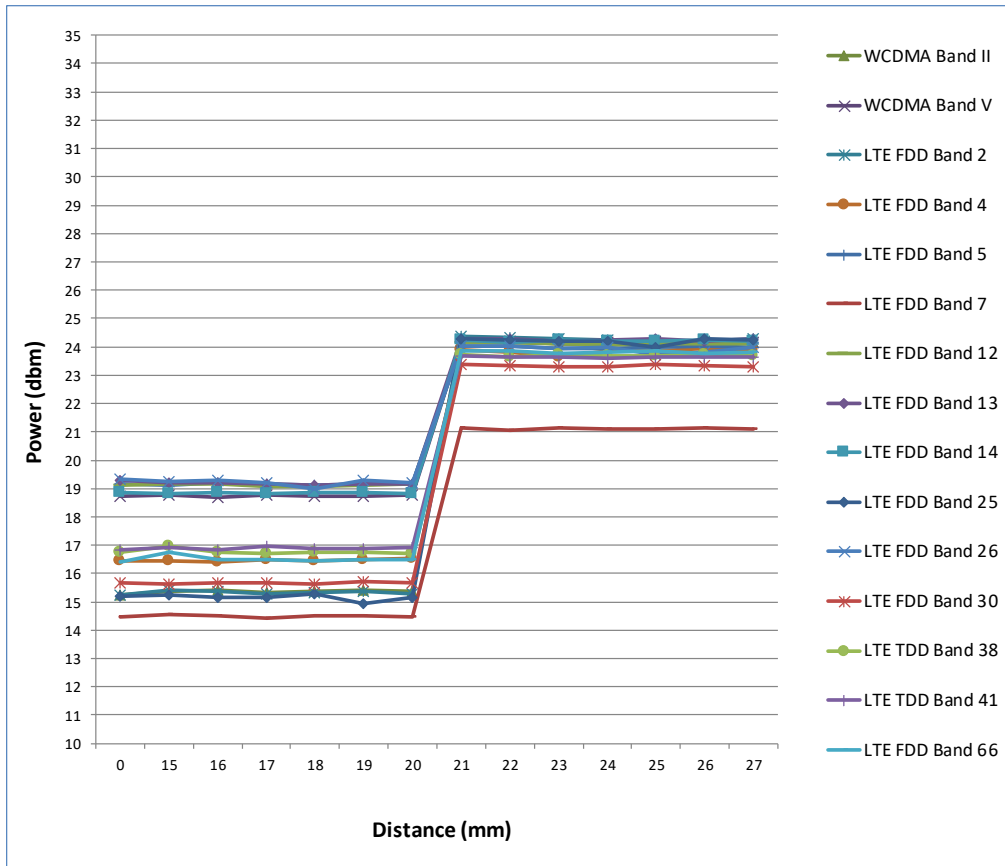
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**Top curve side**

Moving device toward the phantom

WWAN



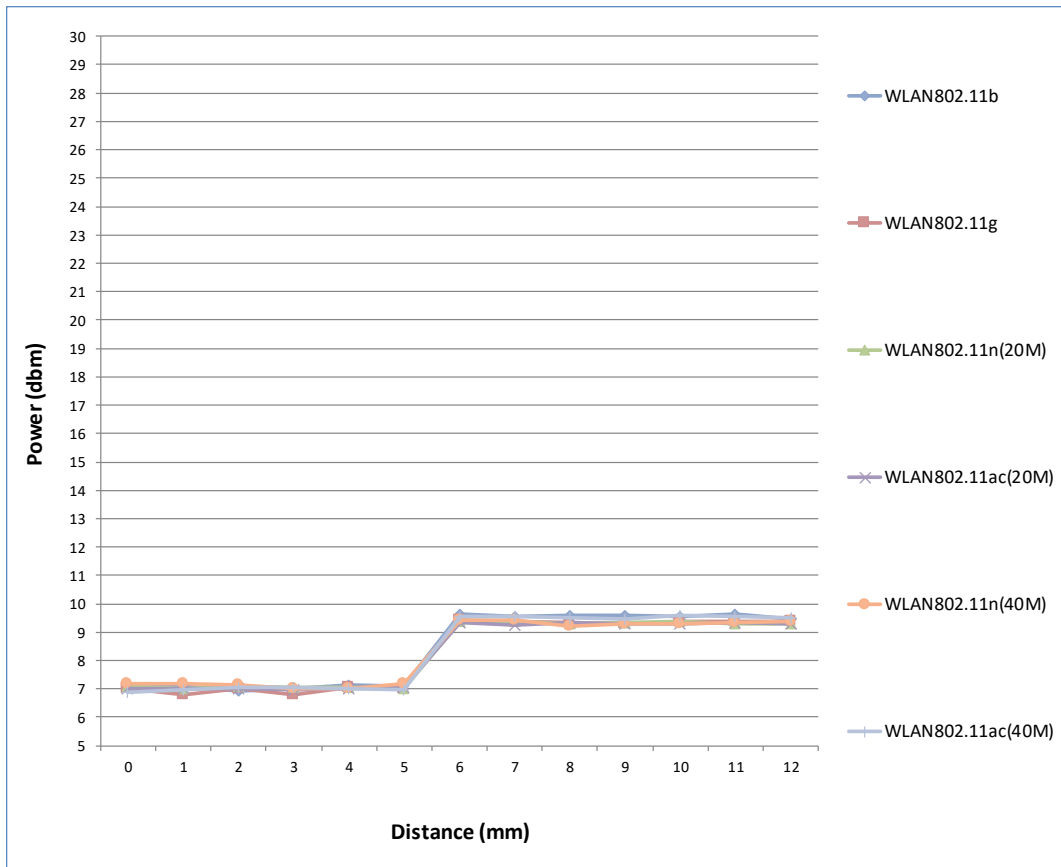
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## WLAN Hotspot mode

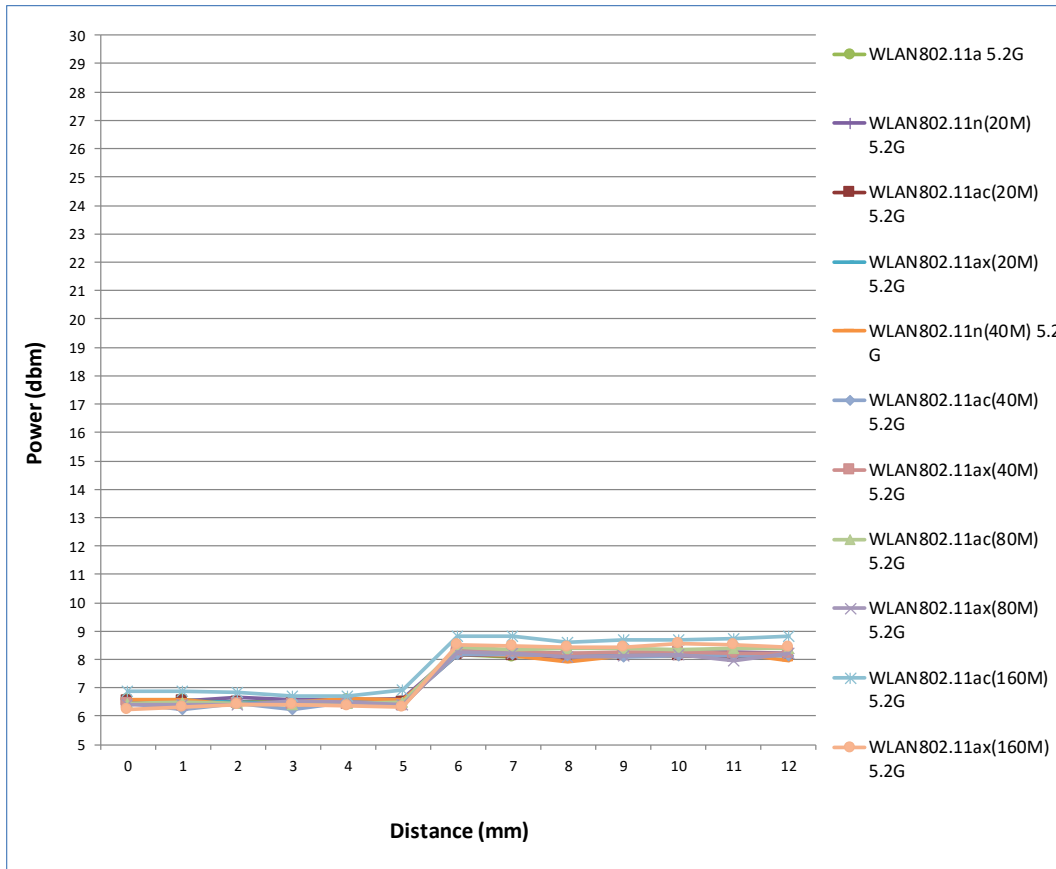
### Tx1



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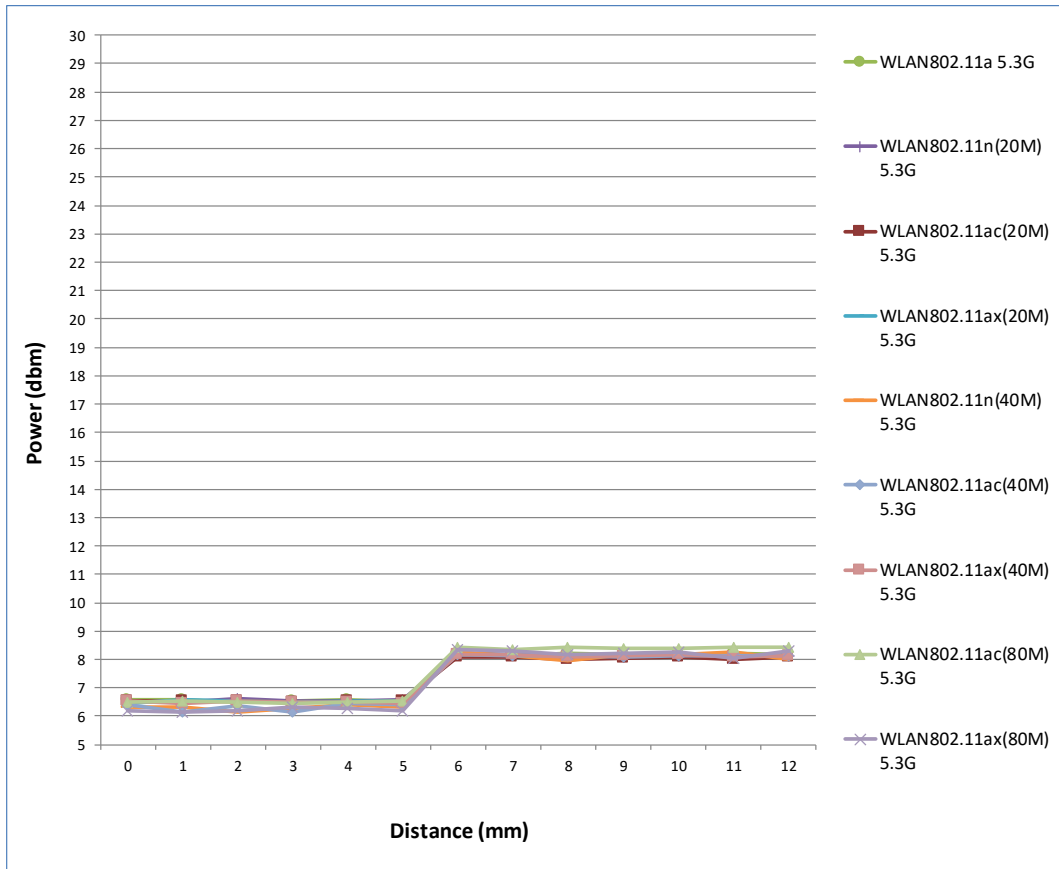
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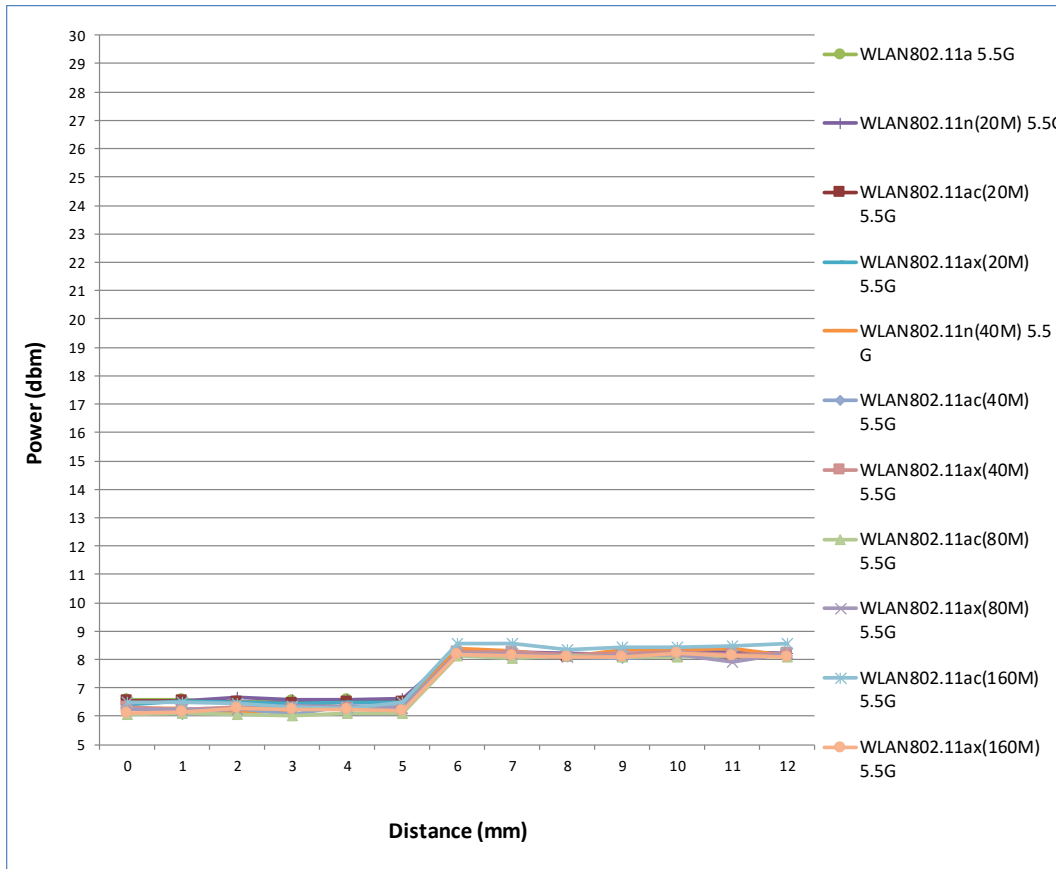
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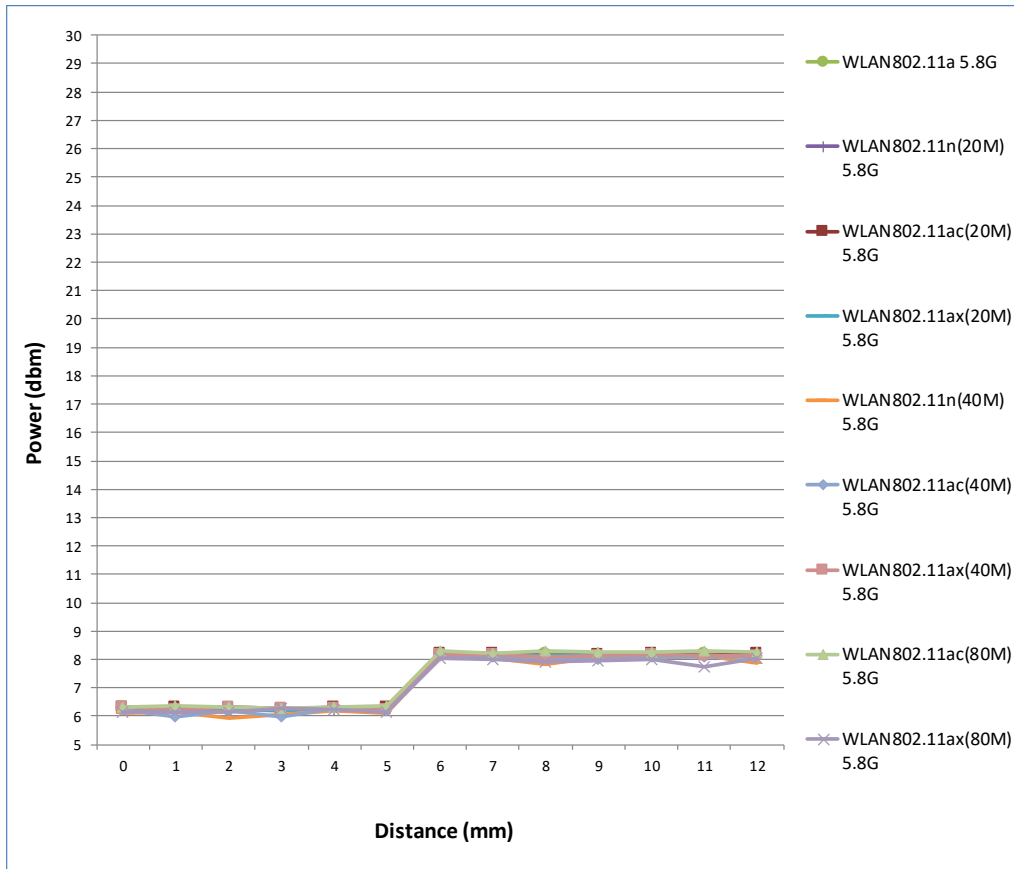


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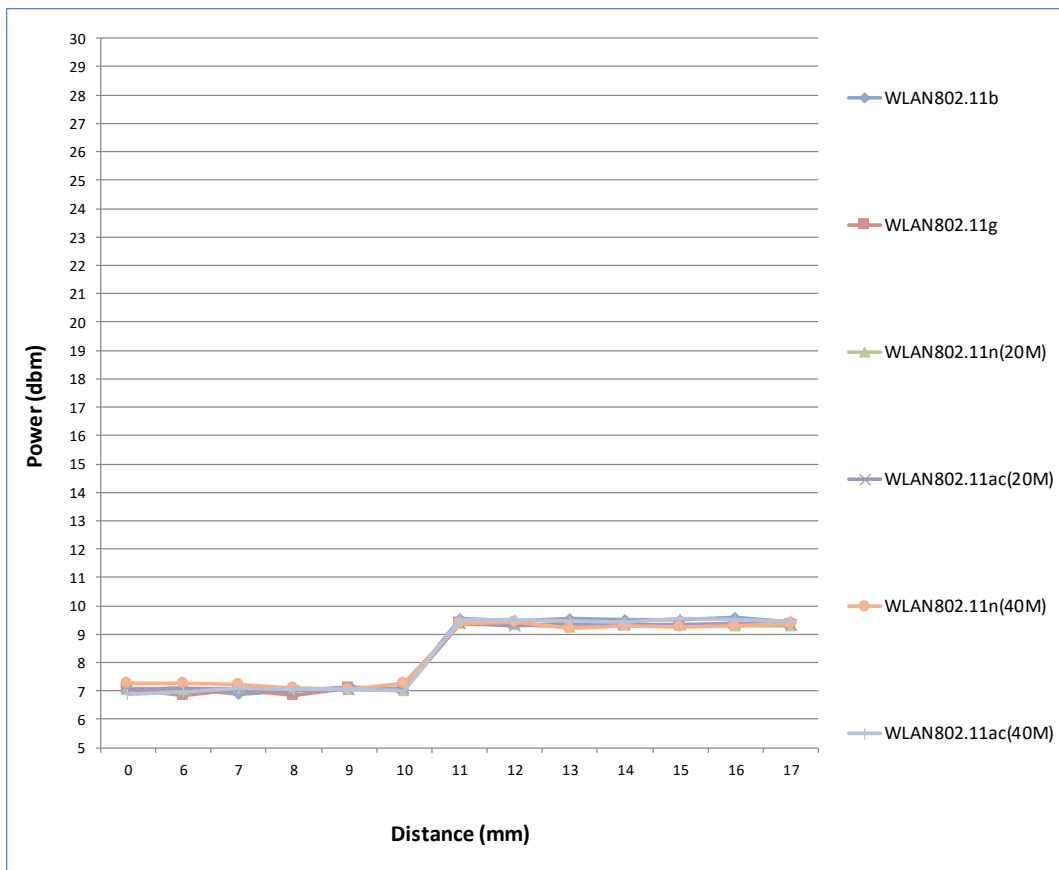
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### WLAN Hotspot mode

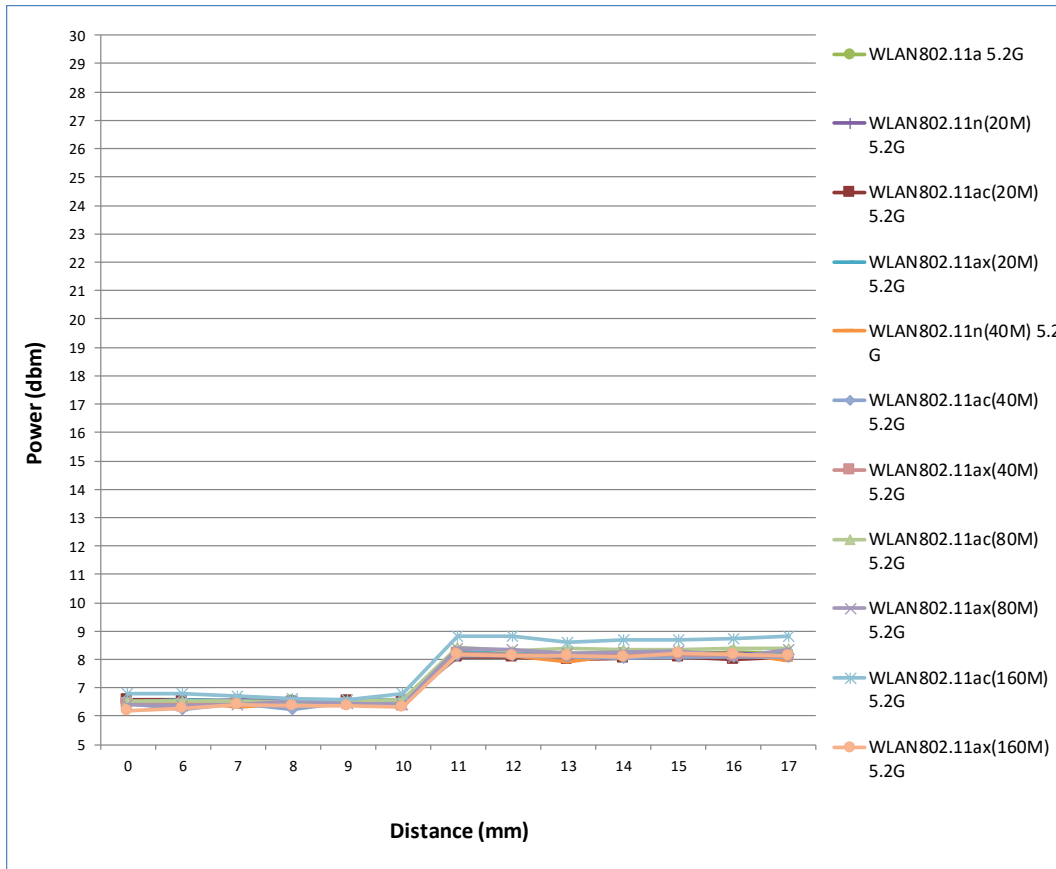
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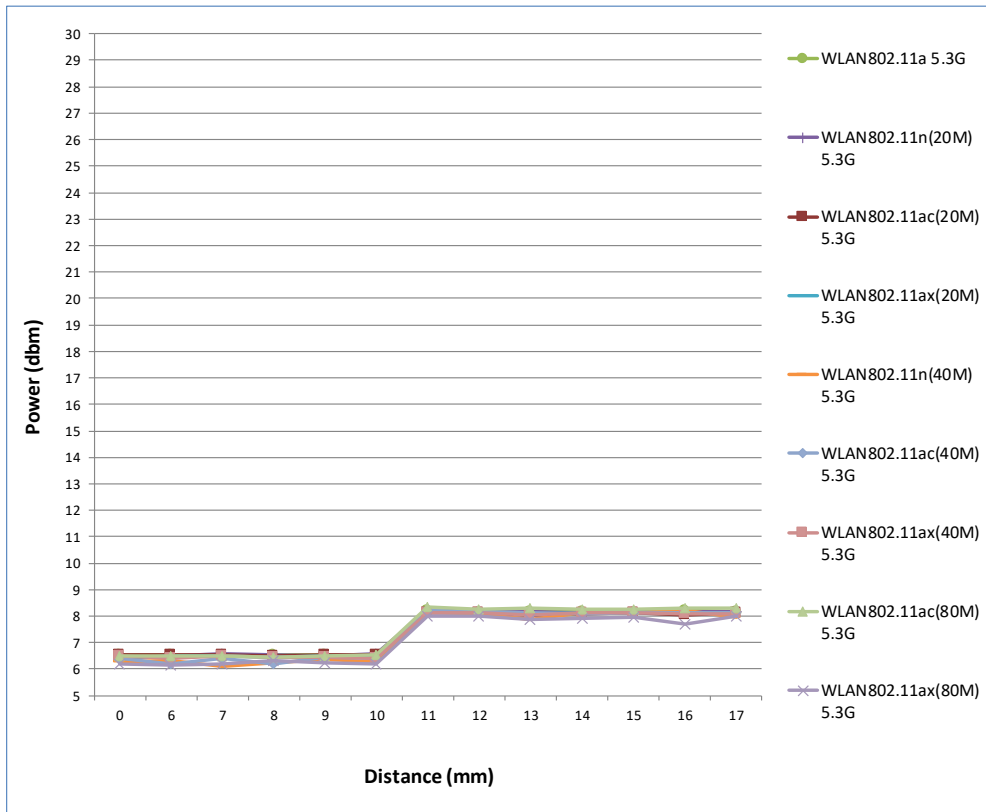
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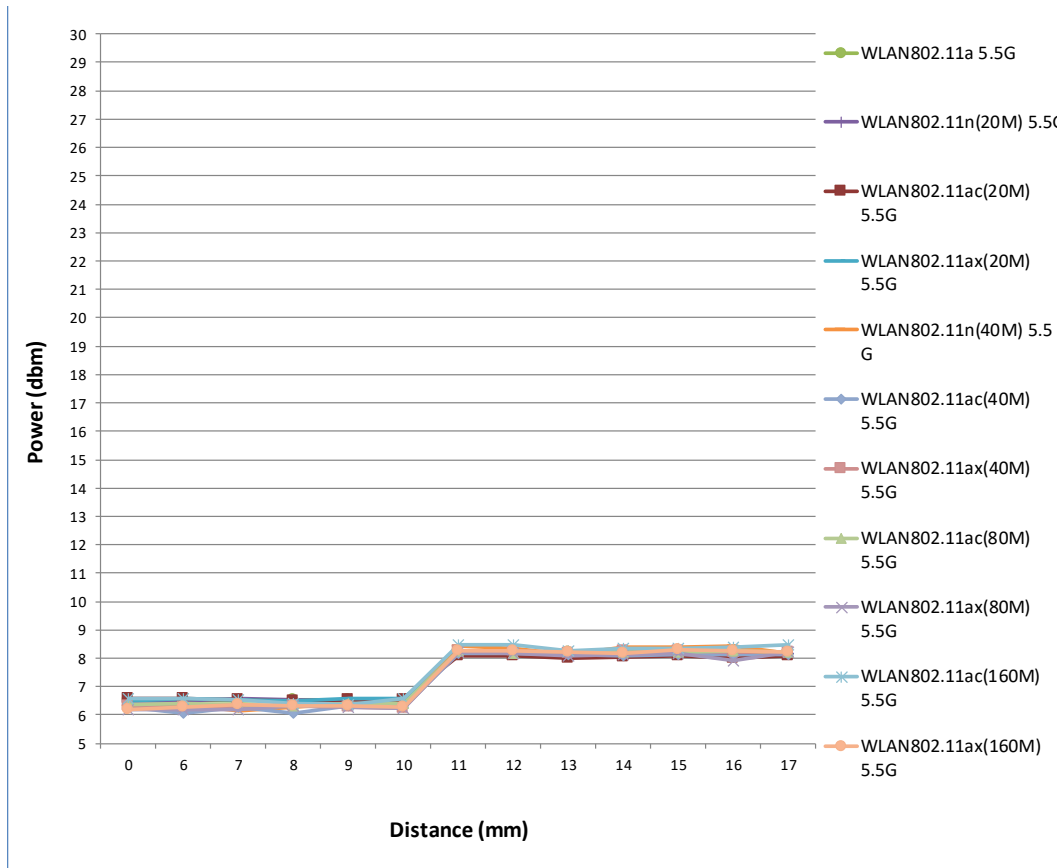
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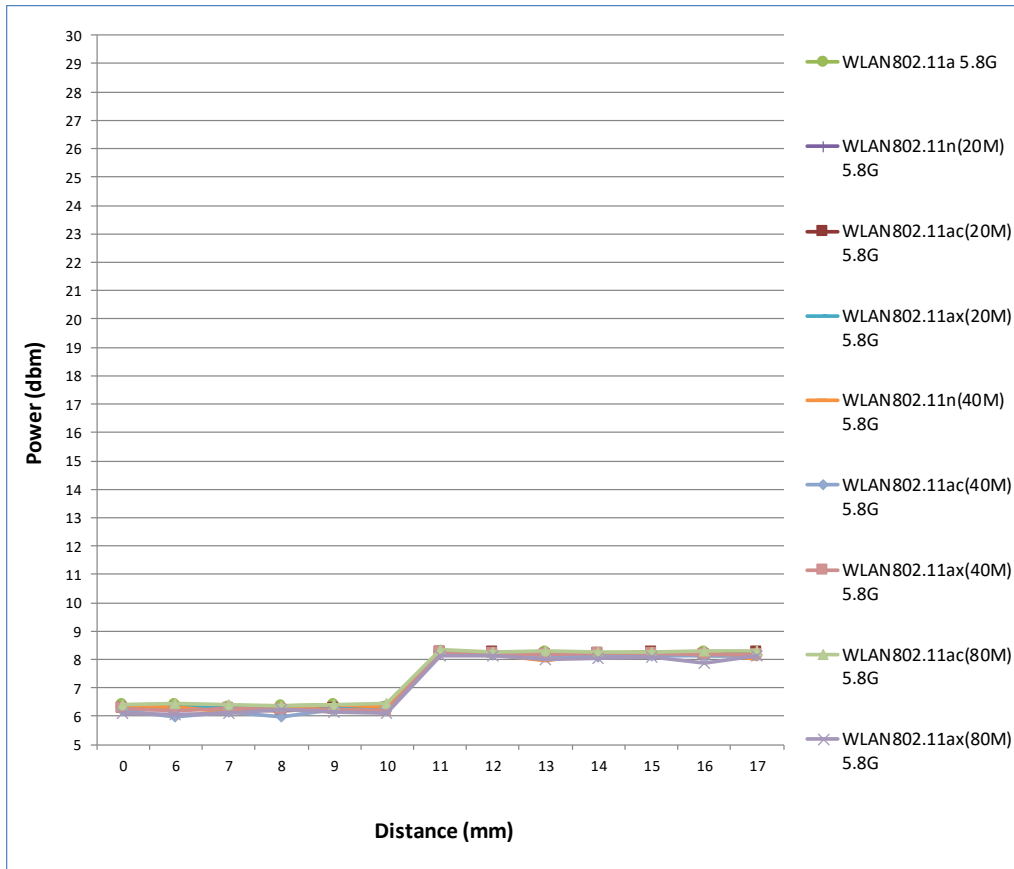
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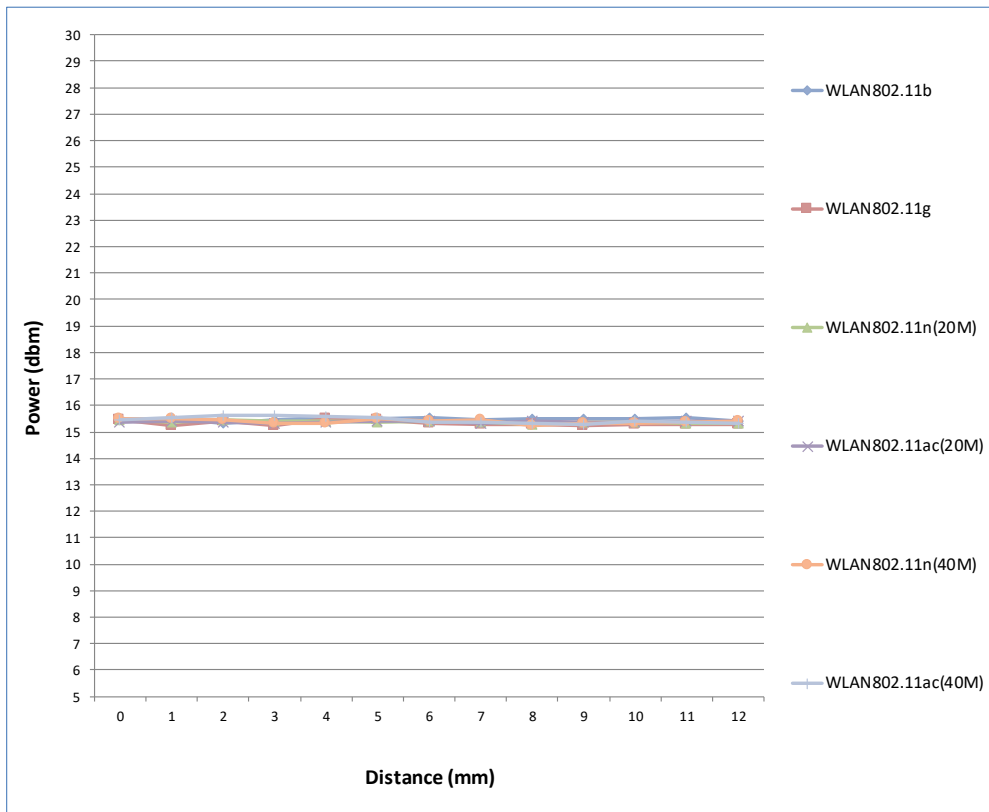
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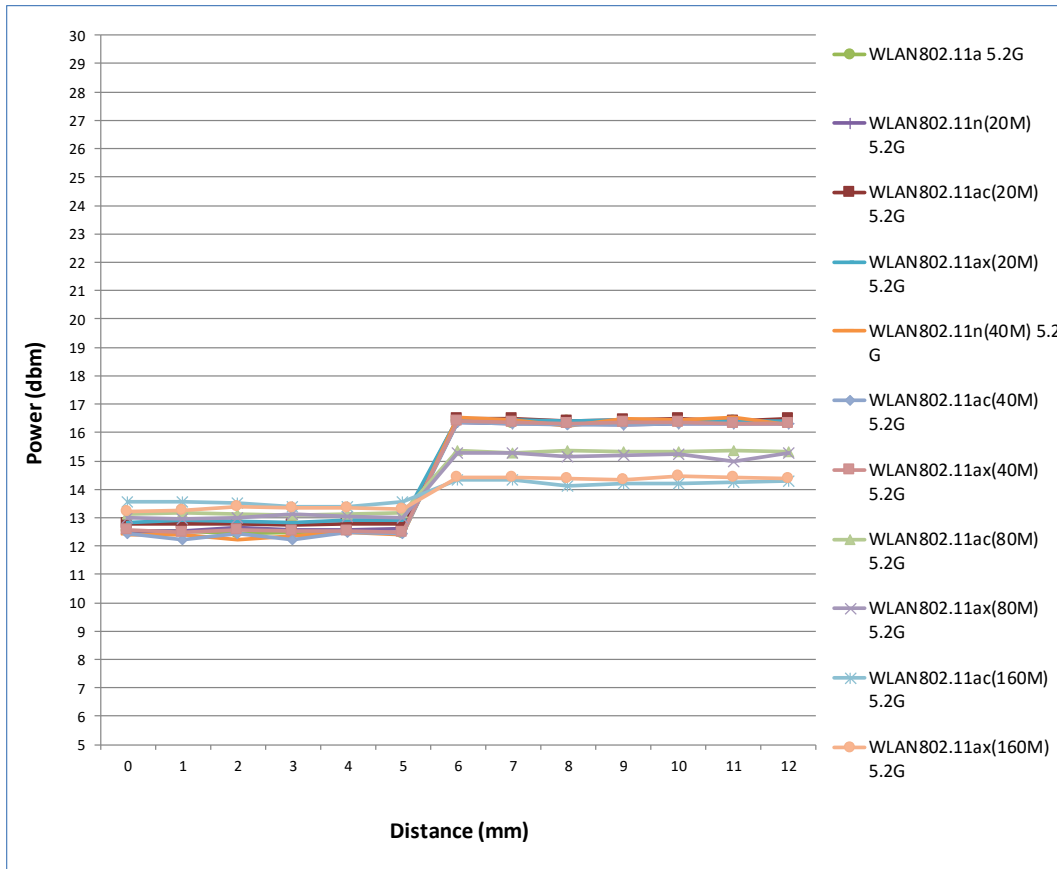
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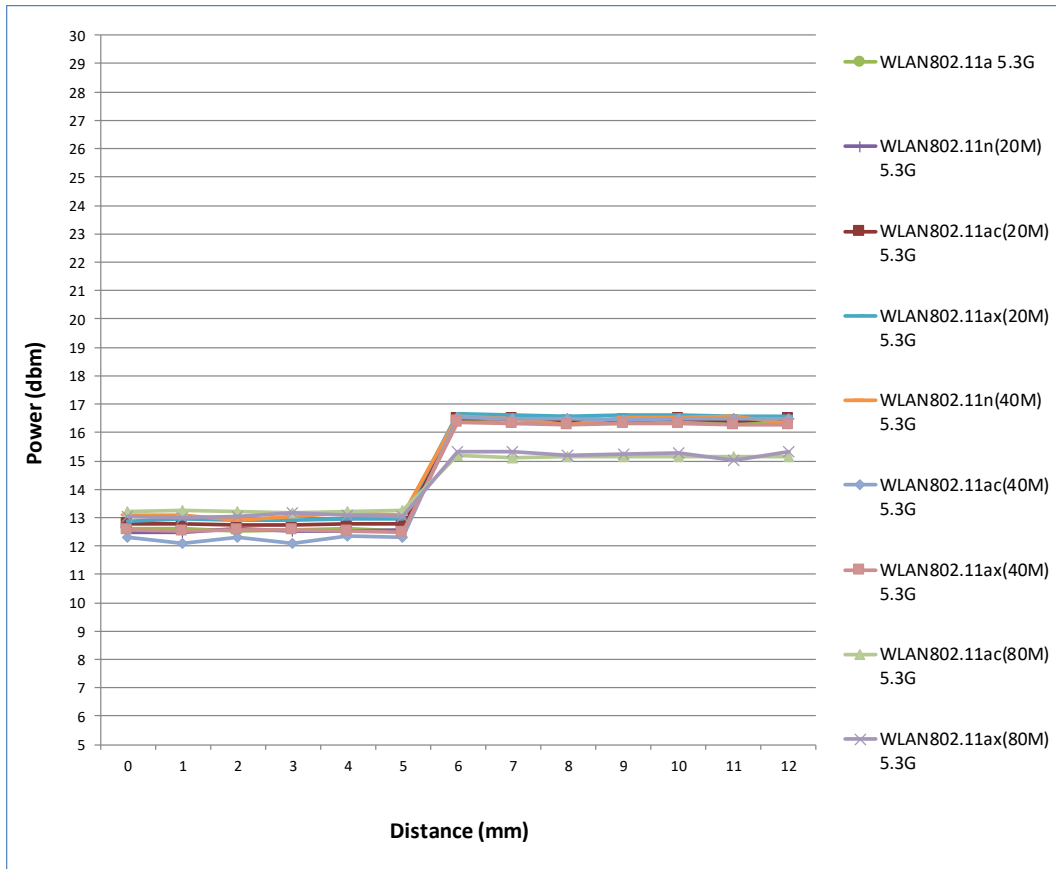


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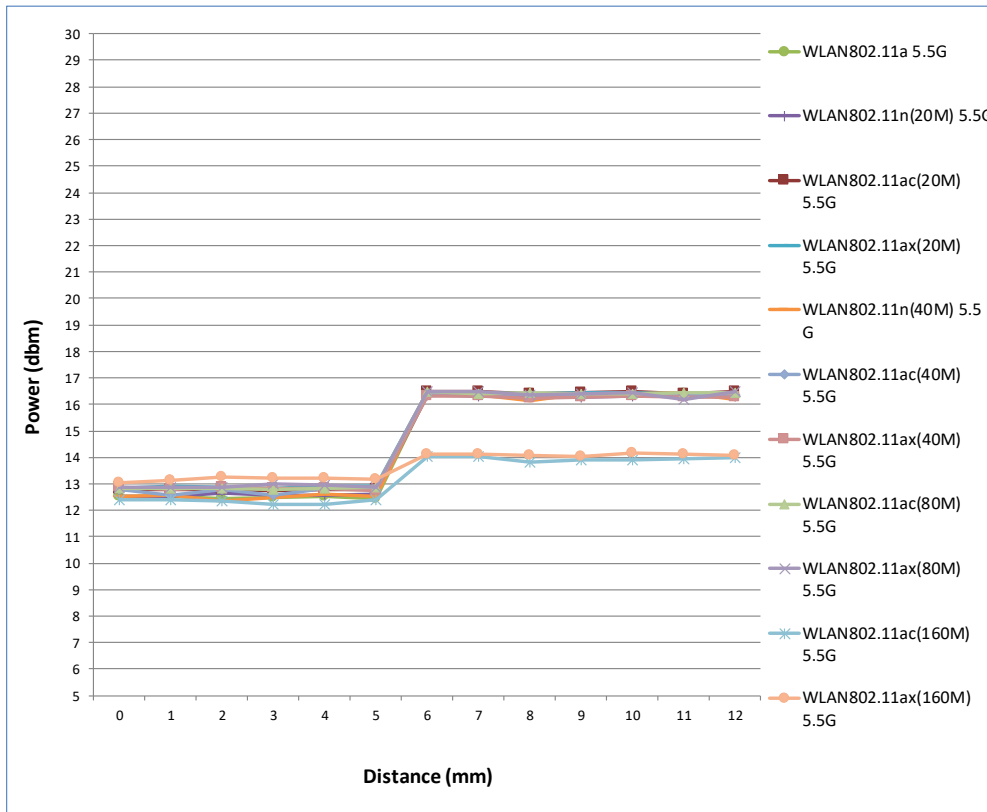




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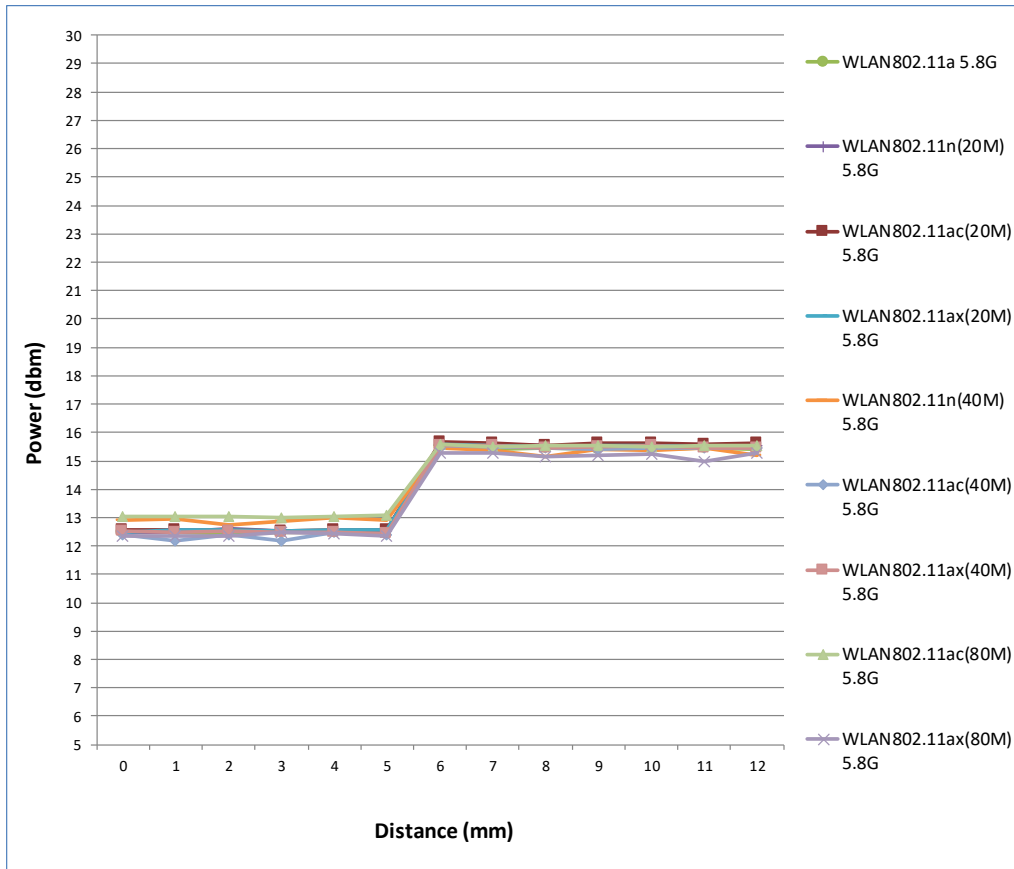
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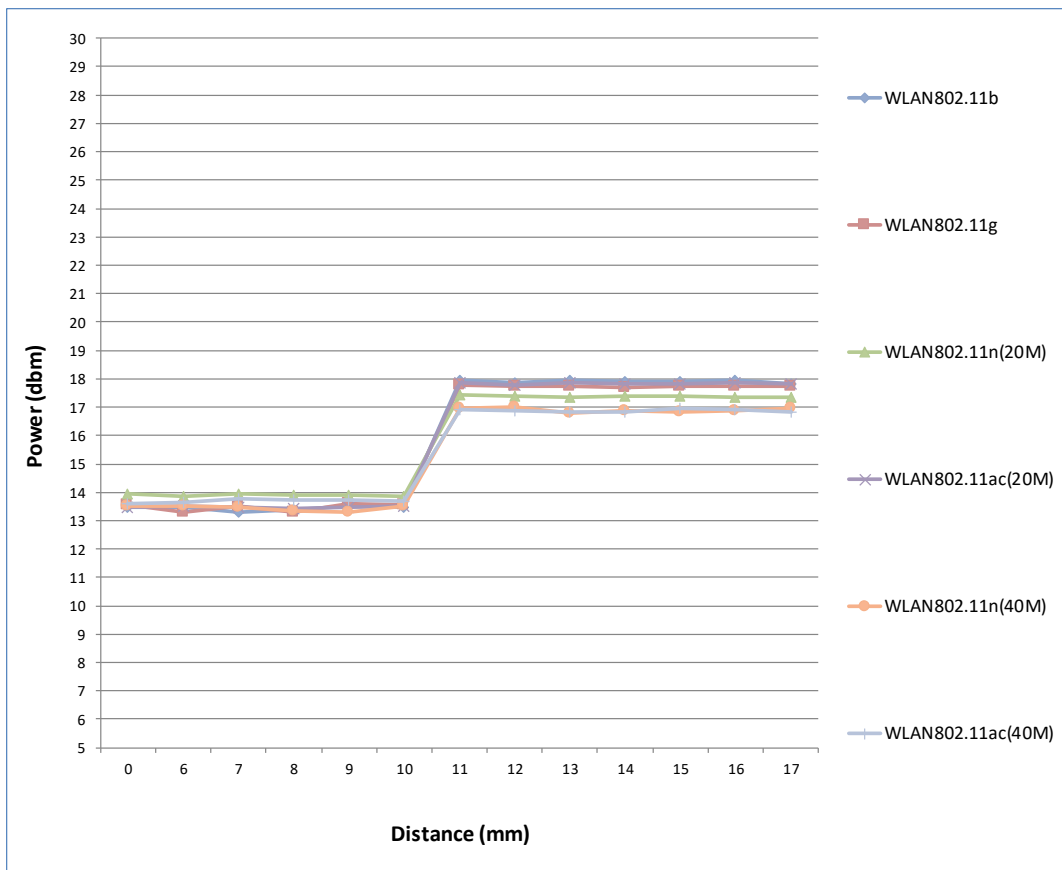
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WLAN only

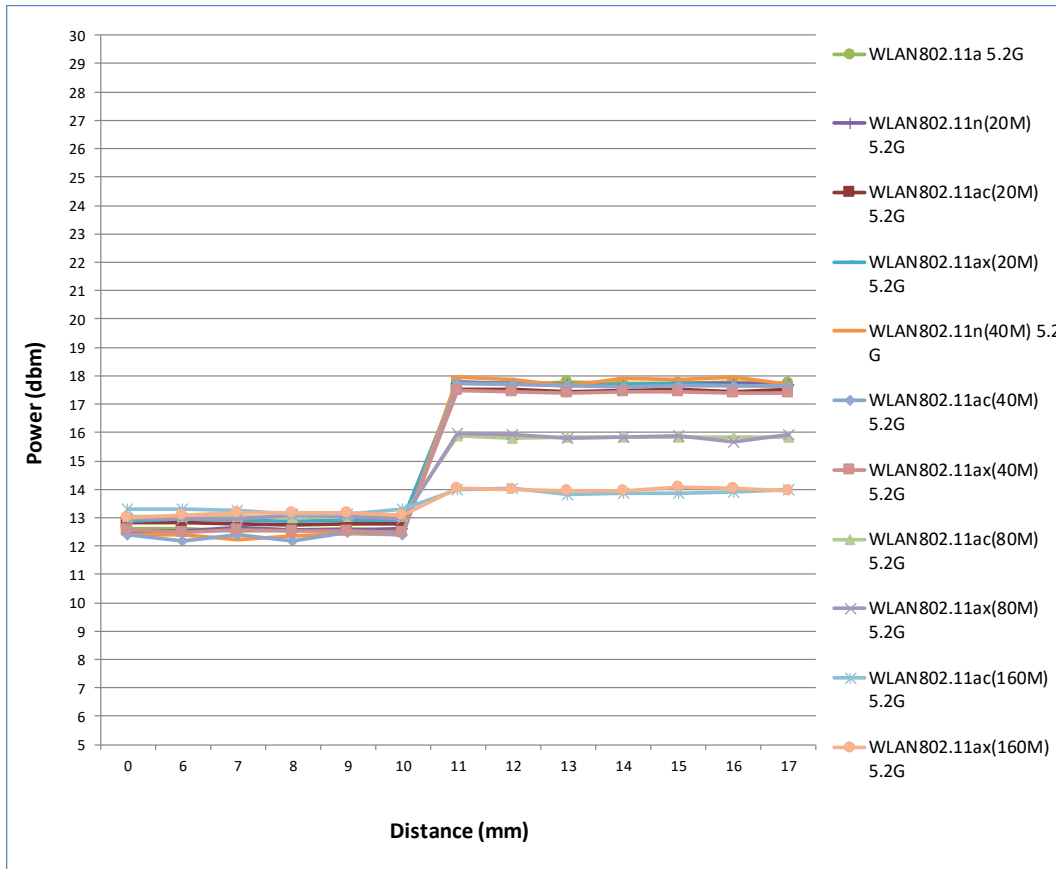
Tx2



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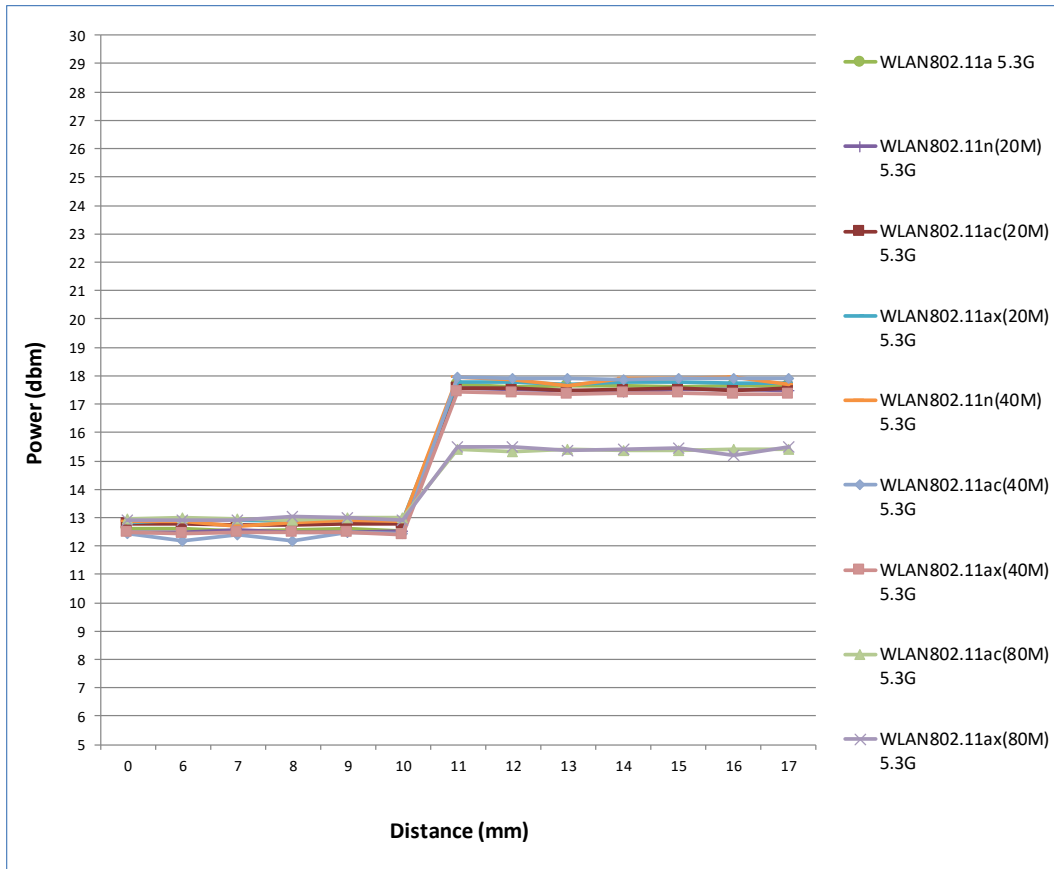
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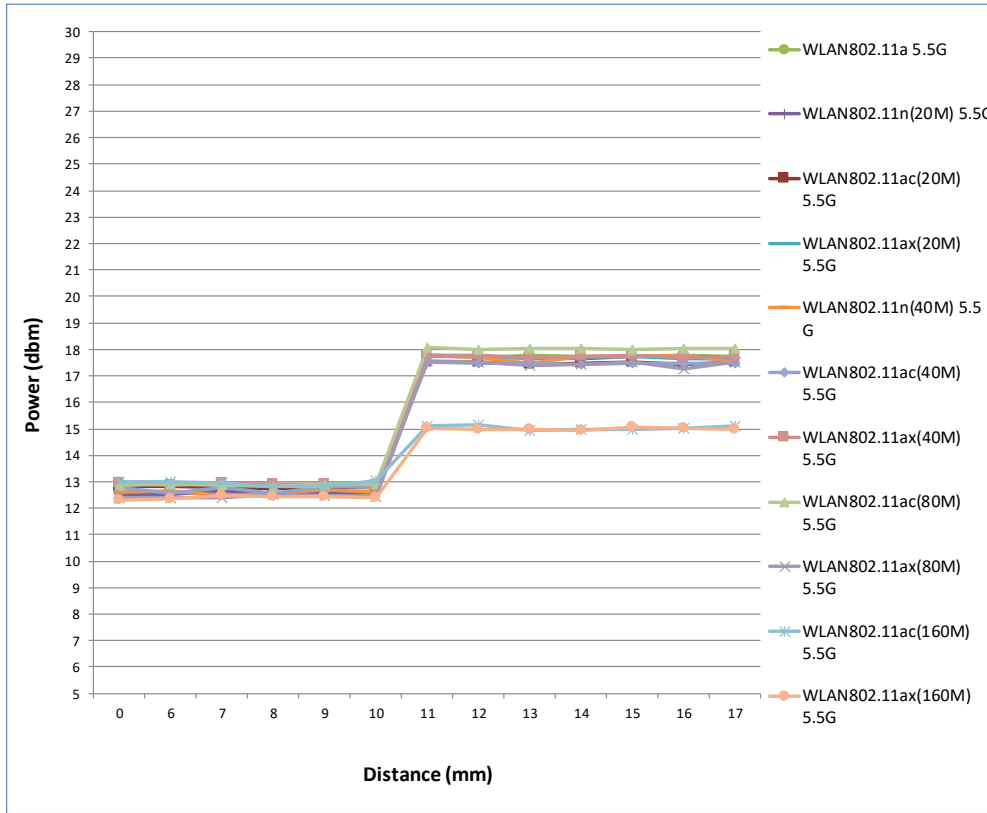
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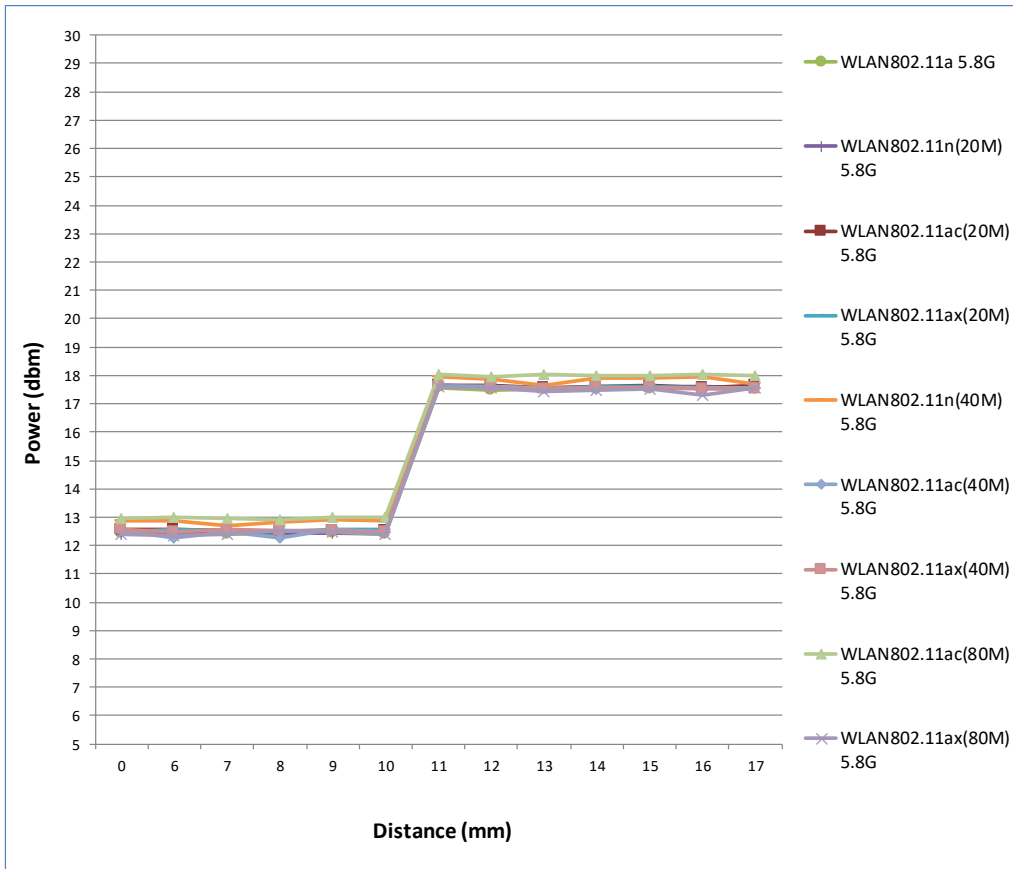
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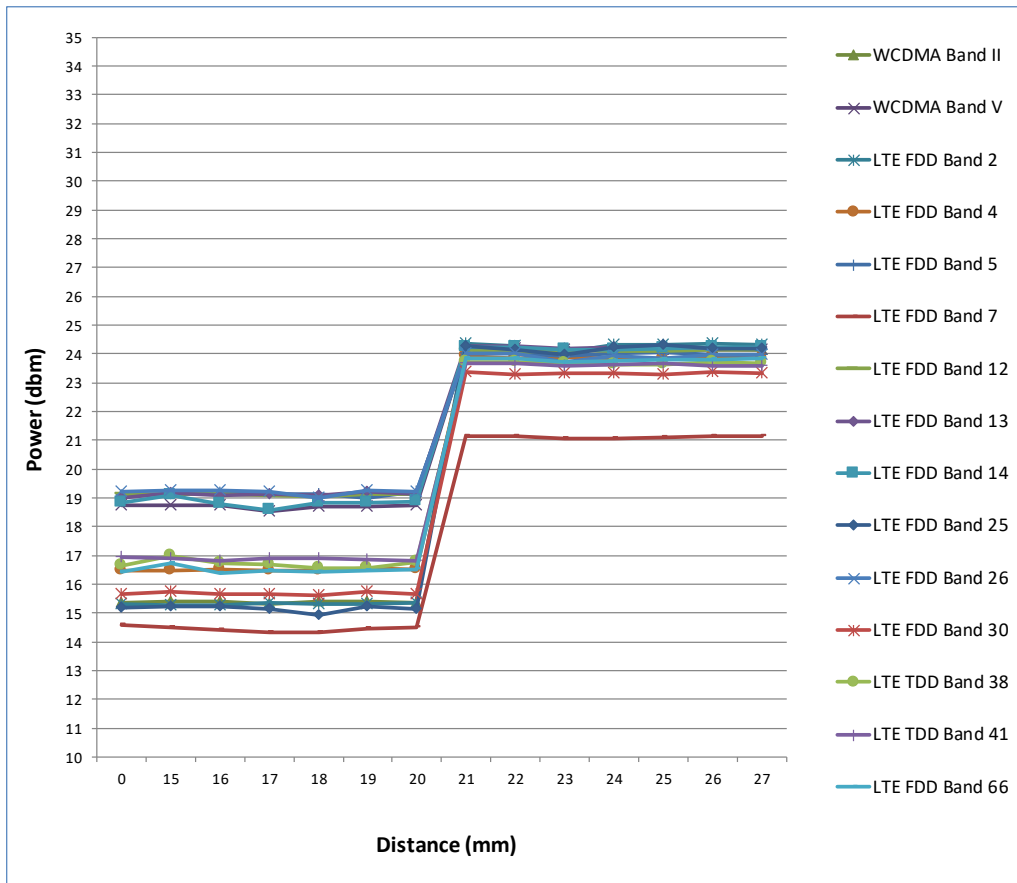
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## Moving device away from the phantom

### WWAN



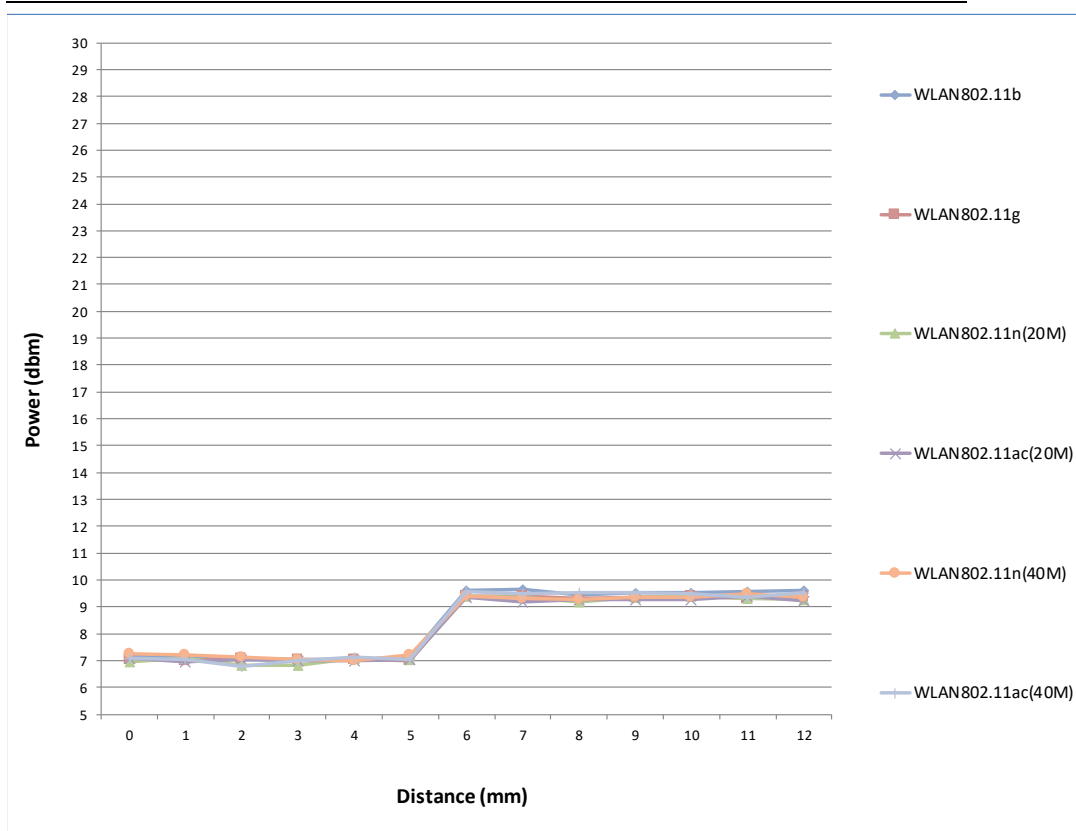
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## WLAN Hotspot mode

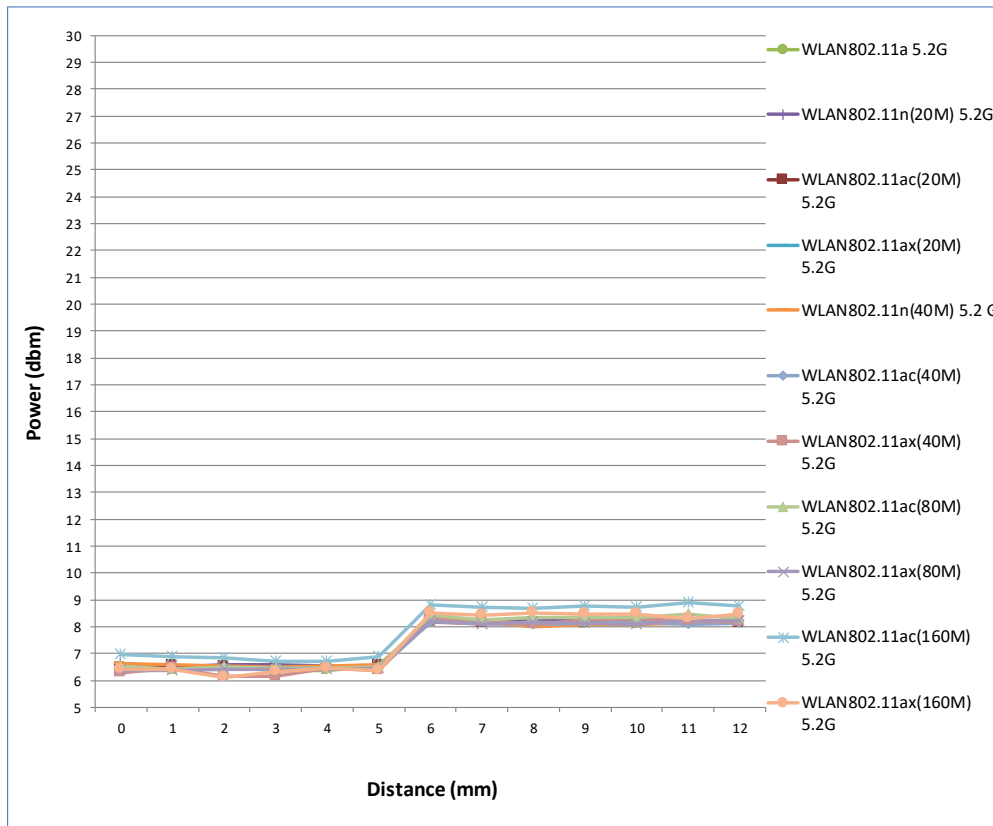
### Tx1



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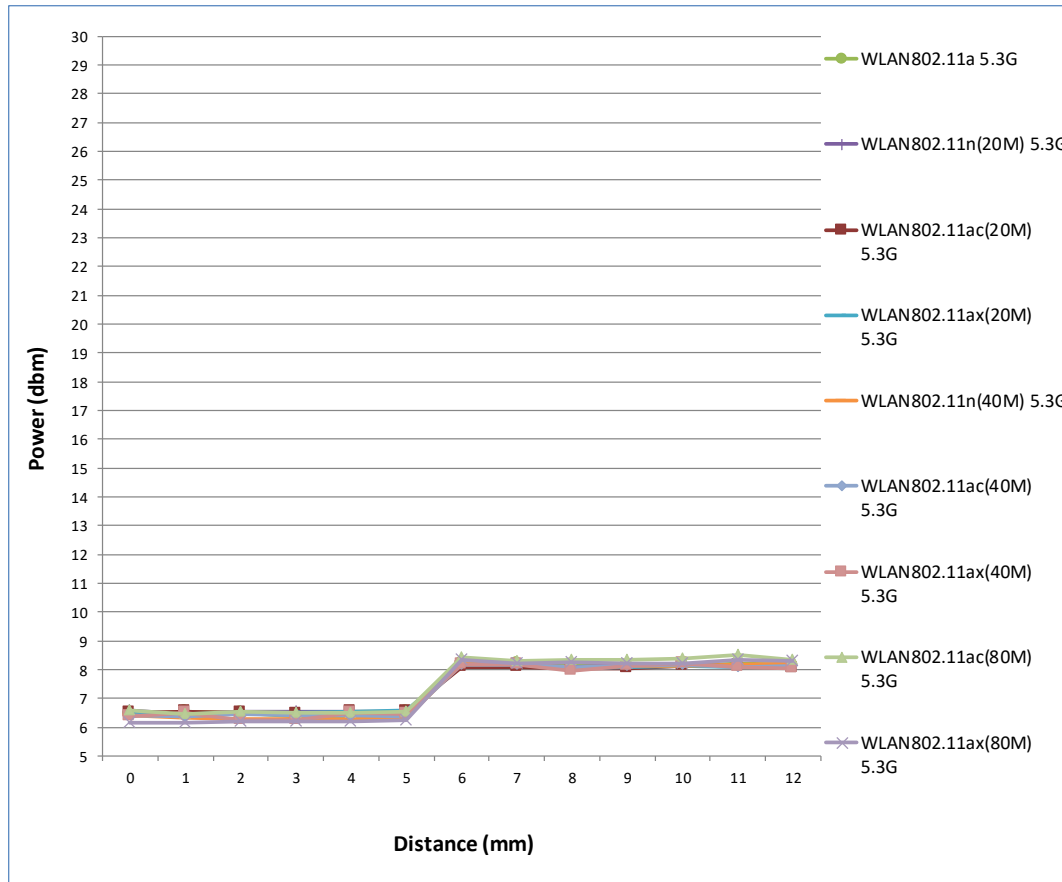
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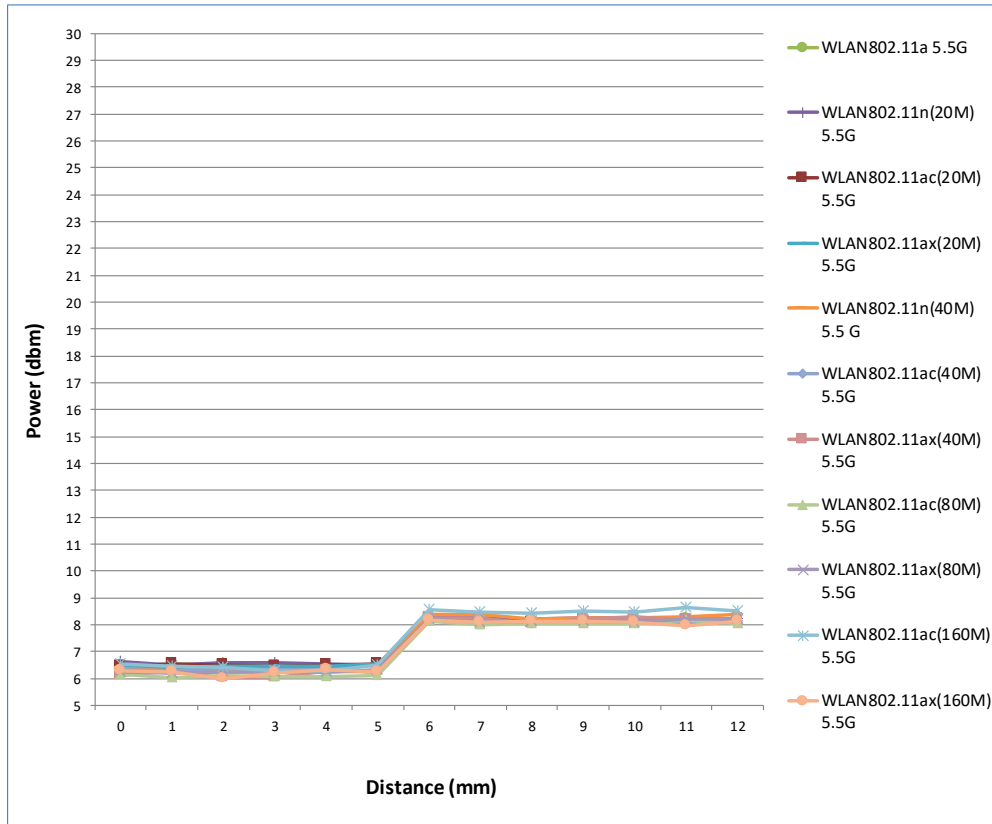
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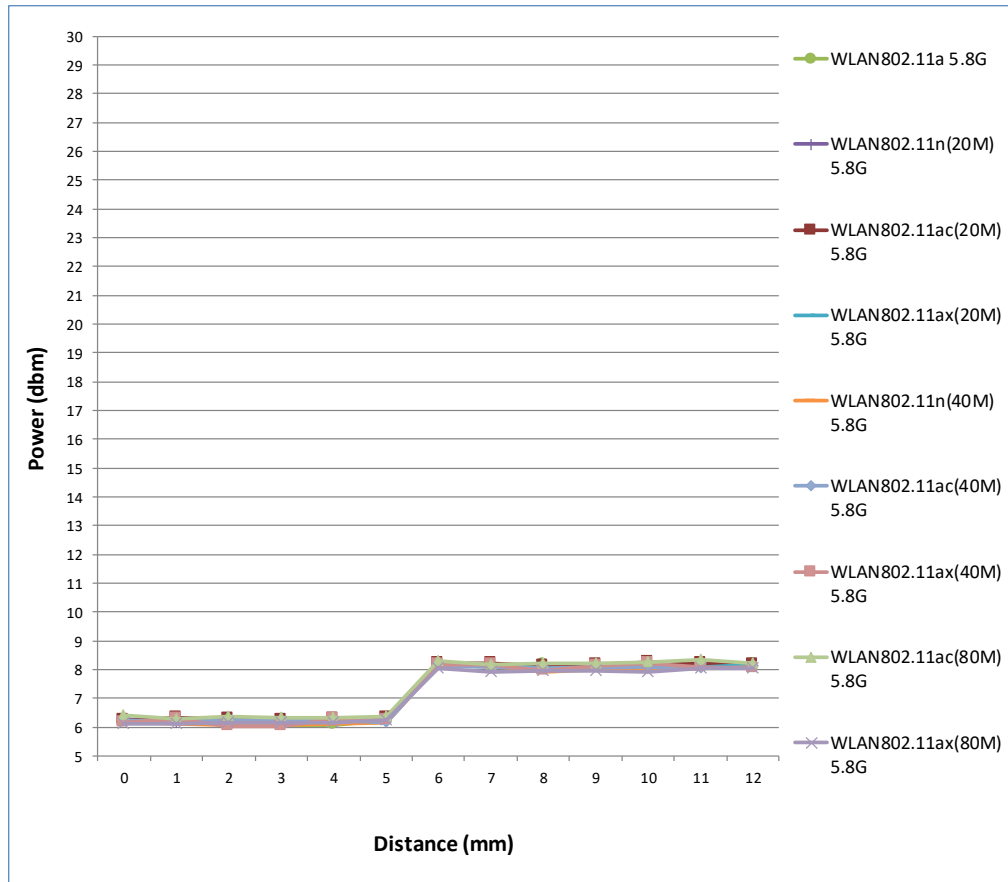
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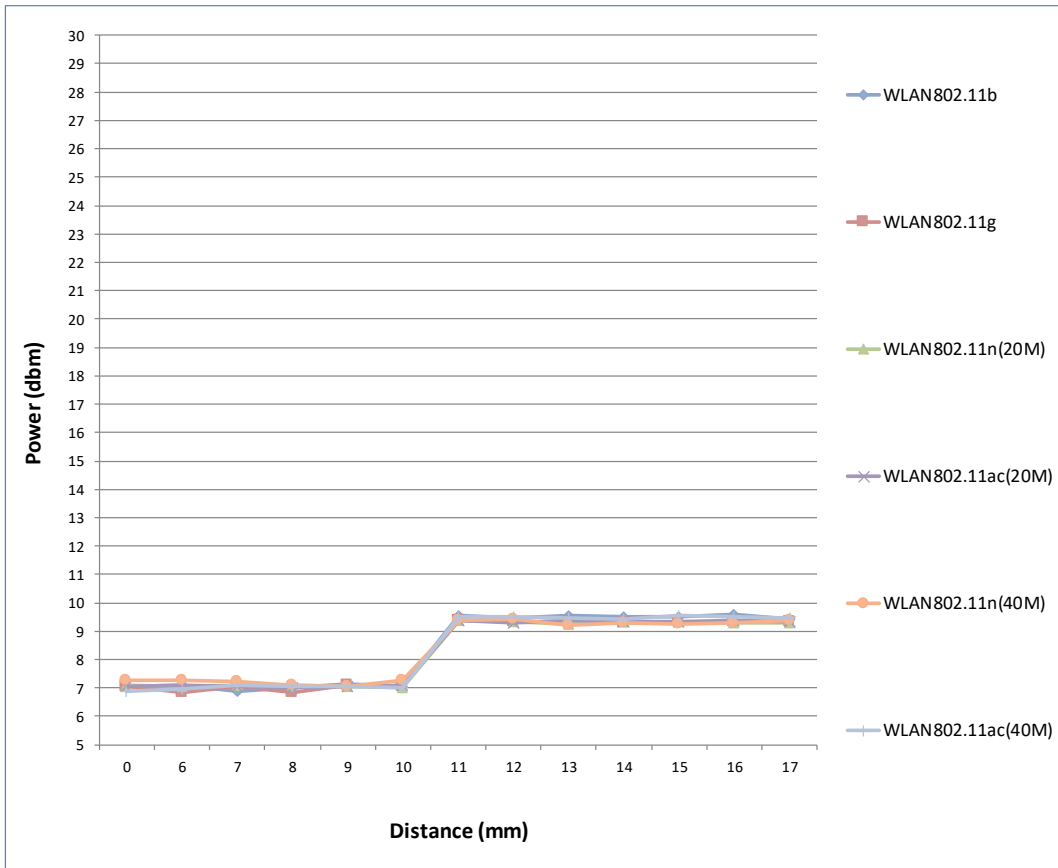
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### WLAN Hotspot mode

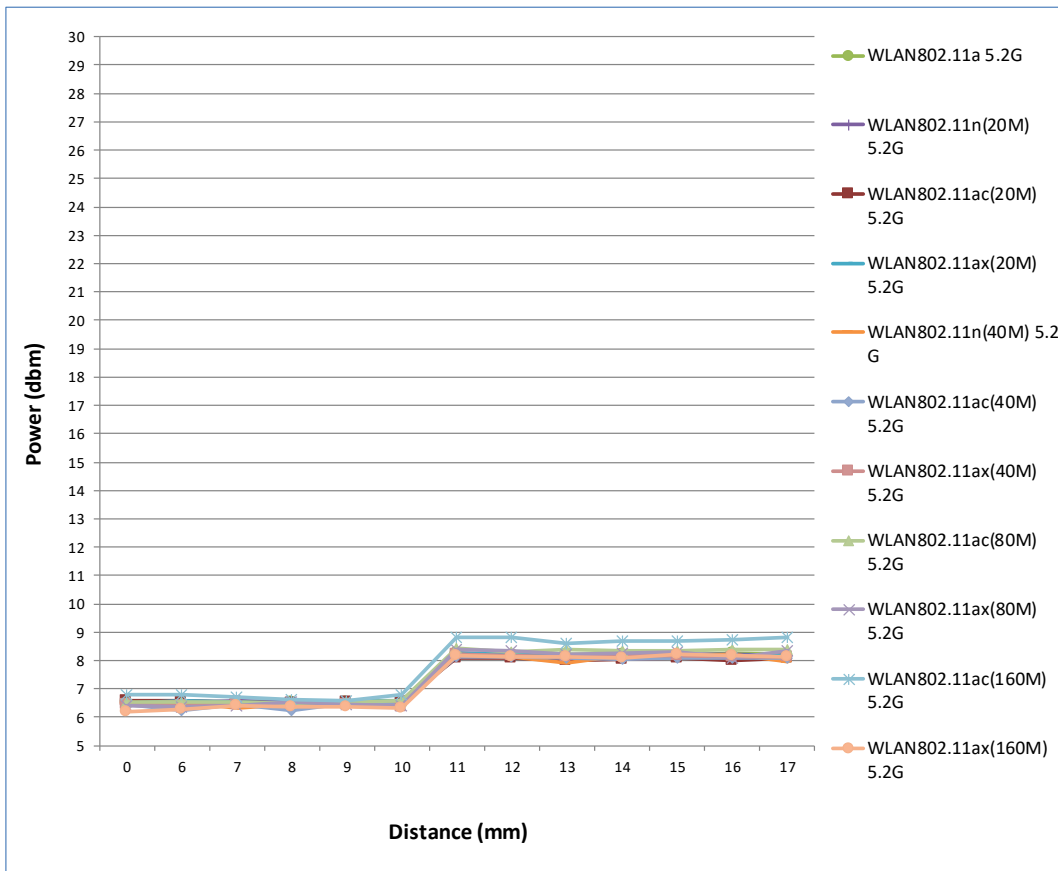
Tx2



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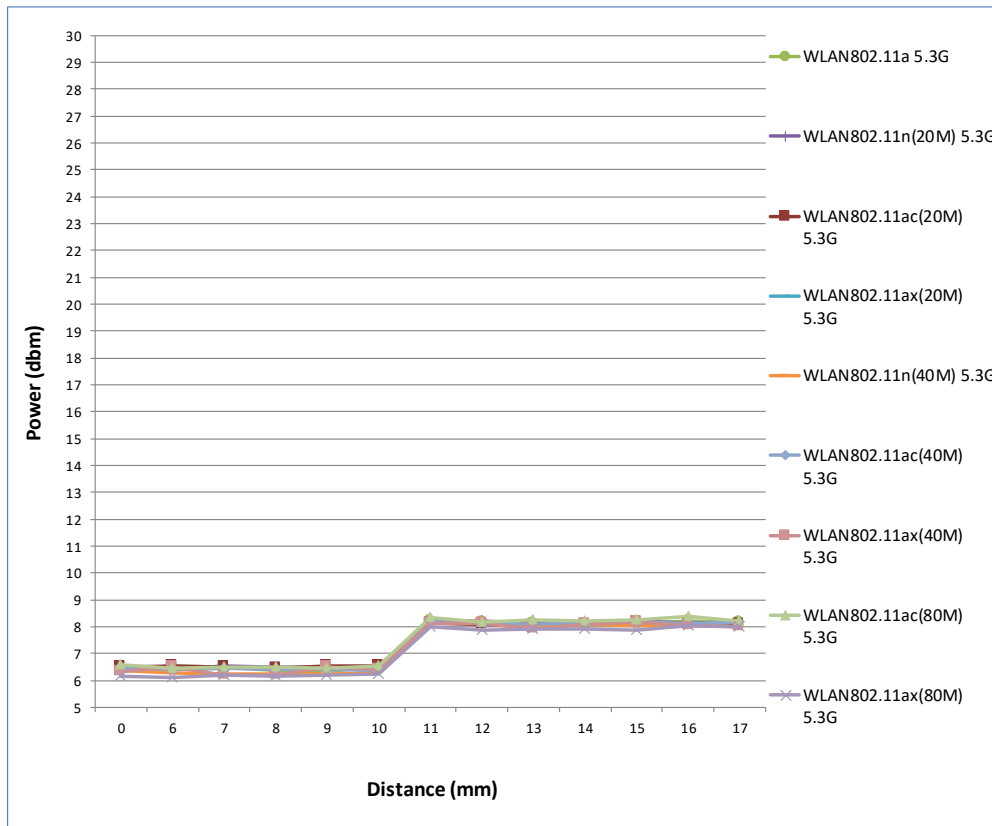


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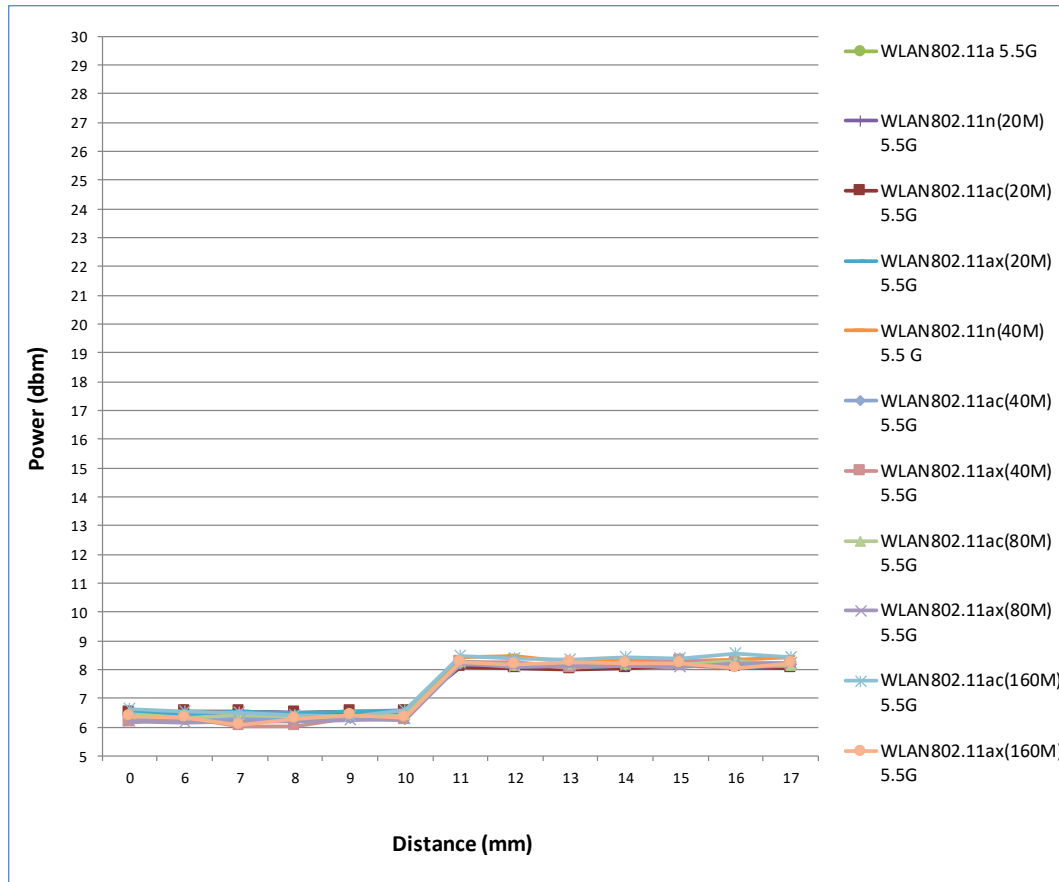




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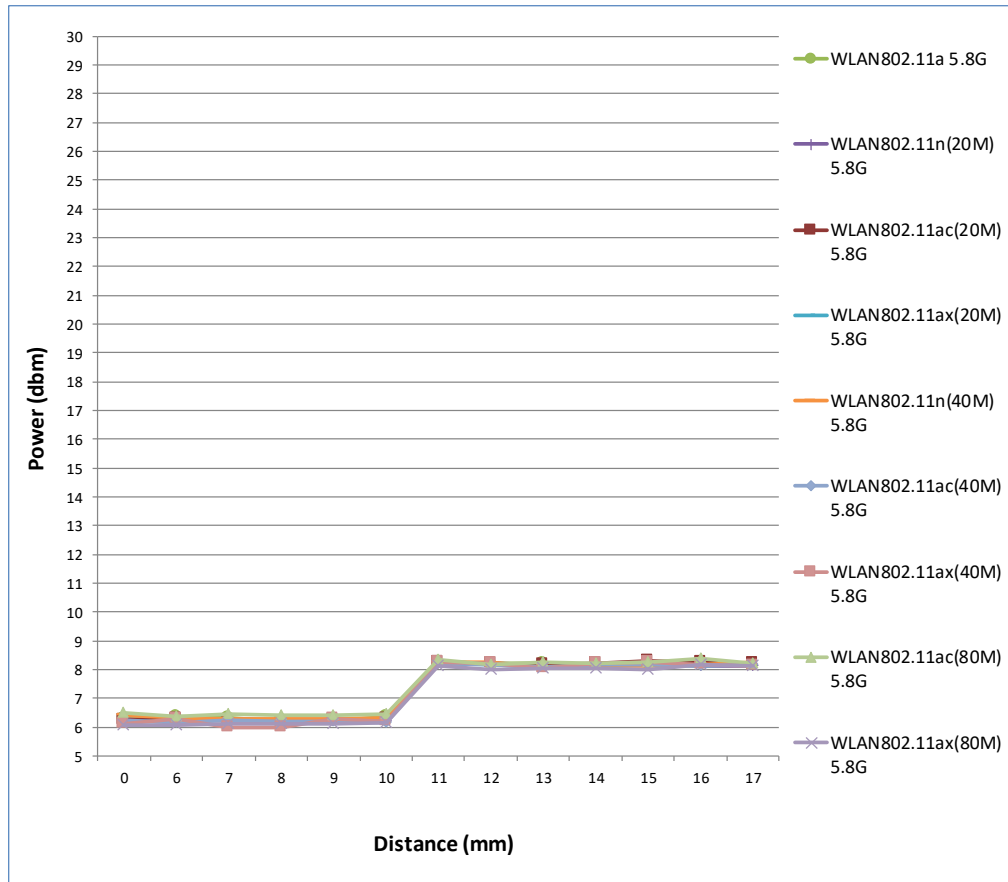
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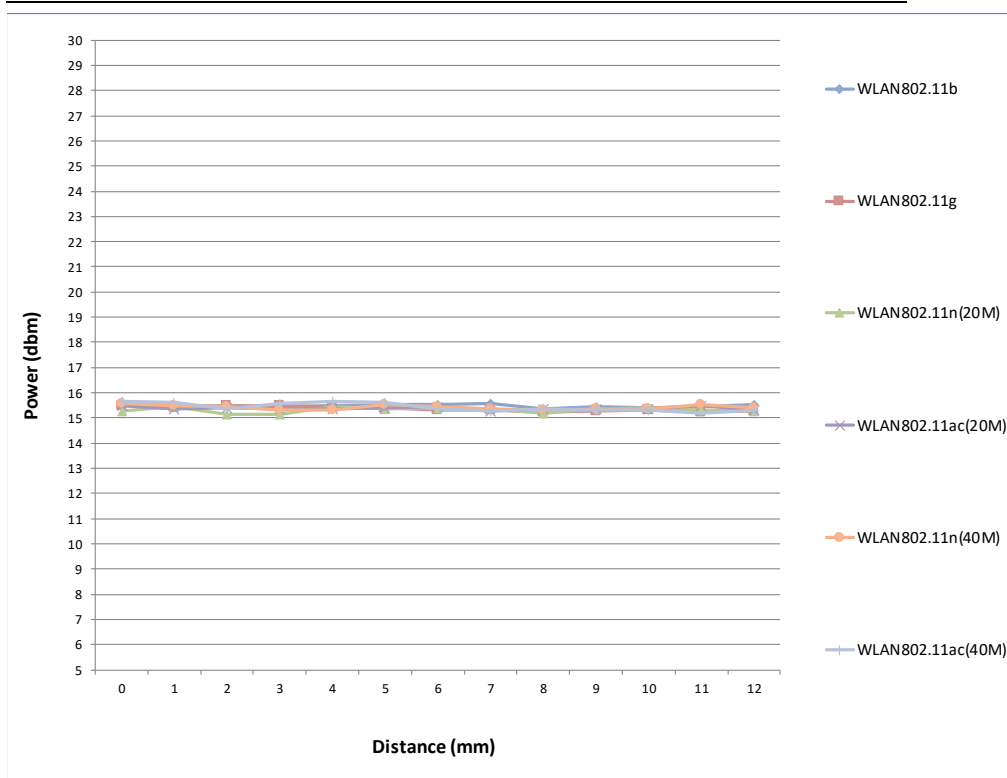
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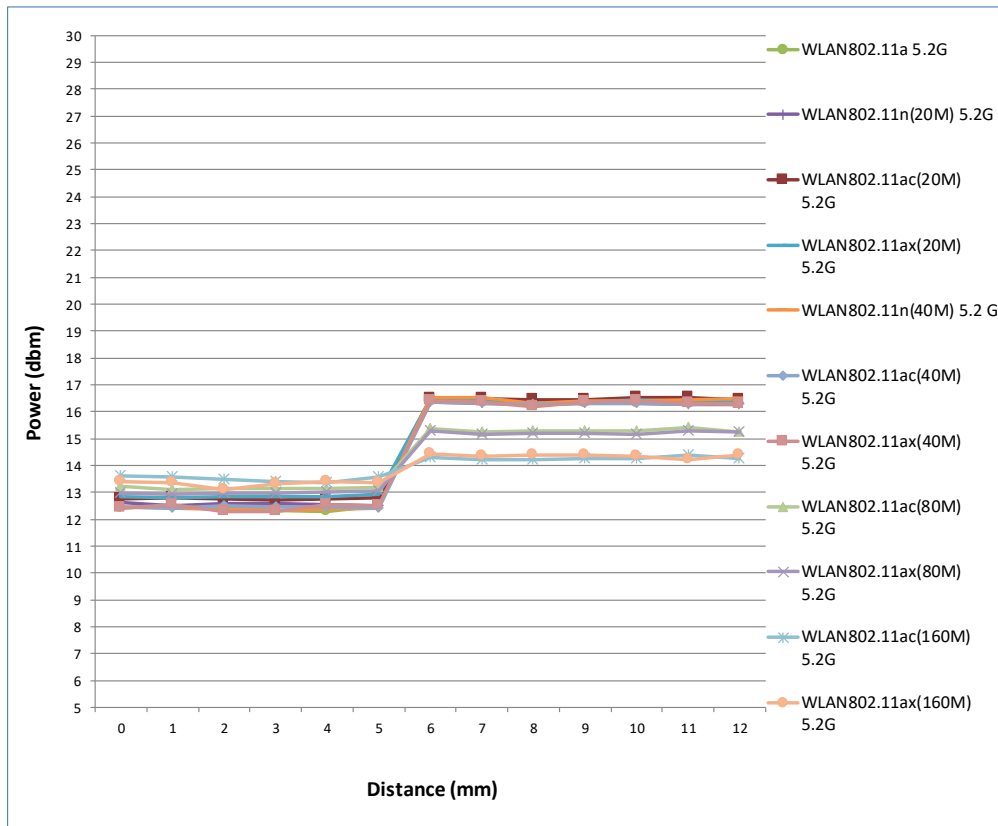
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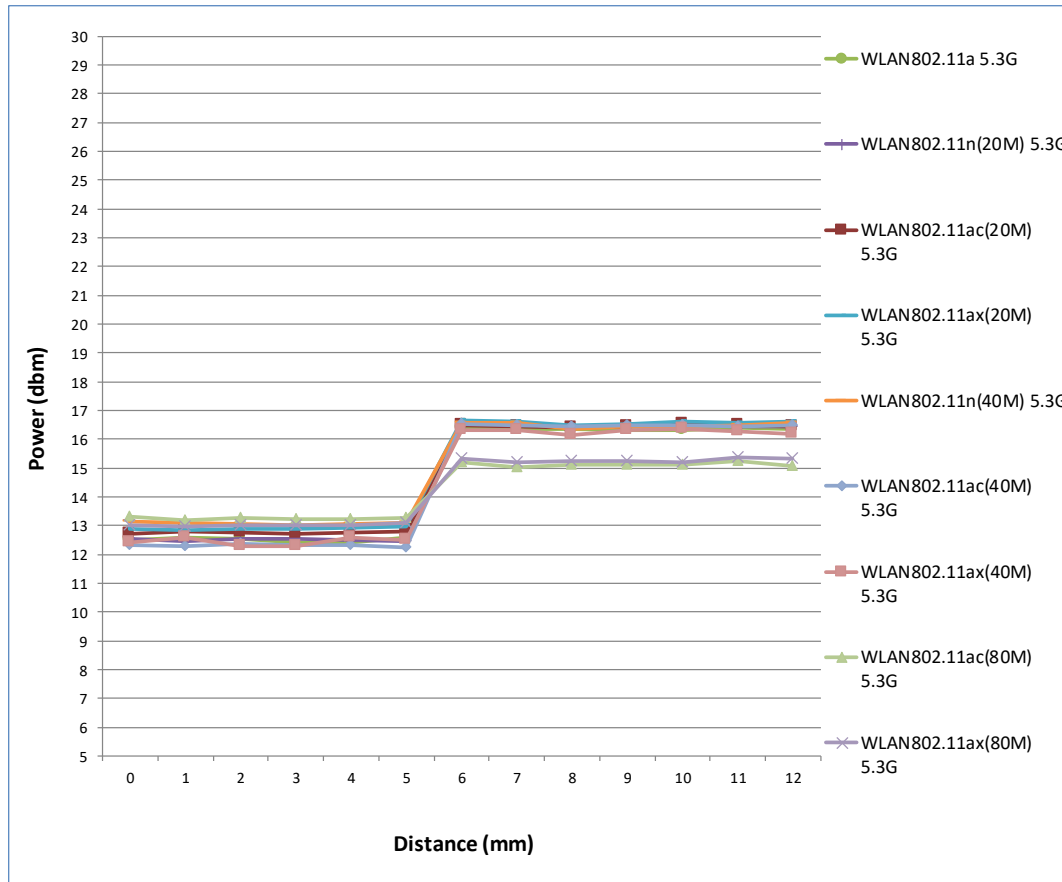
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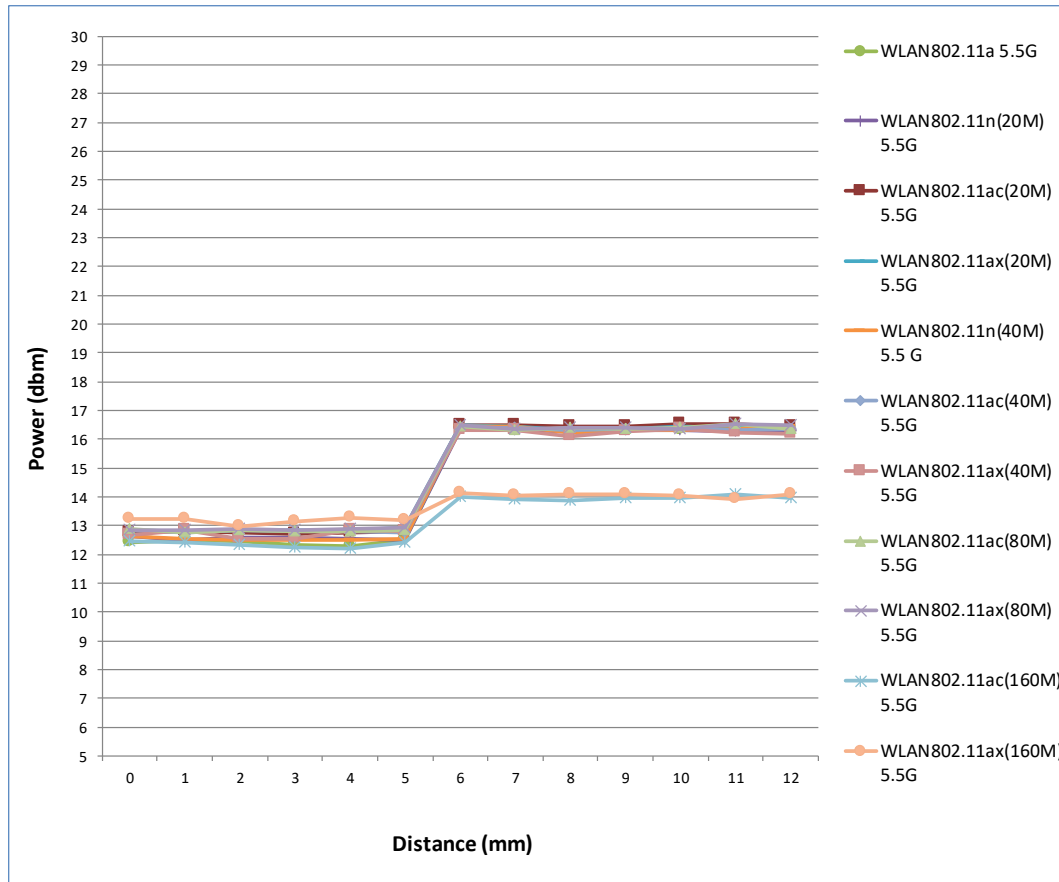
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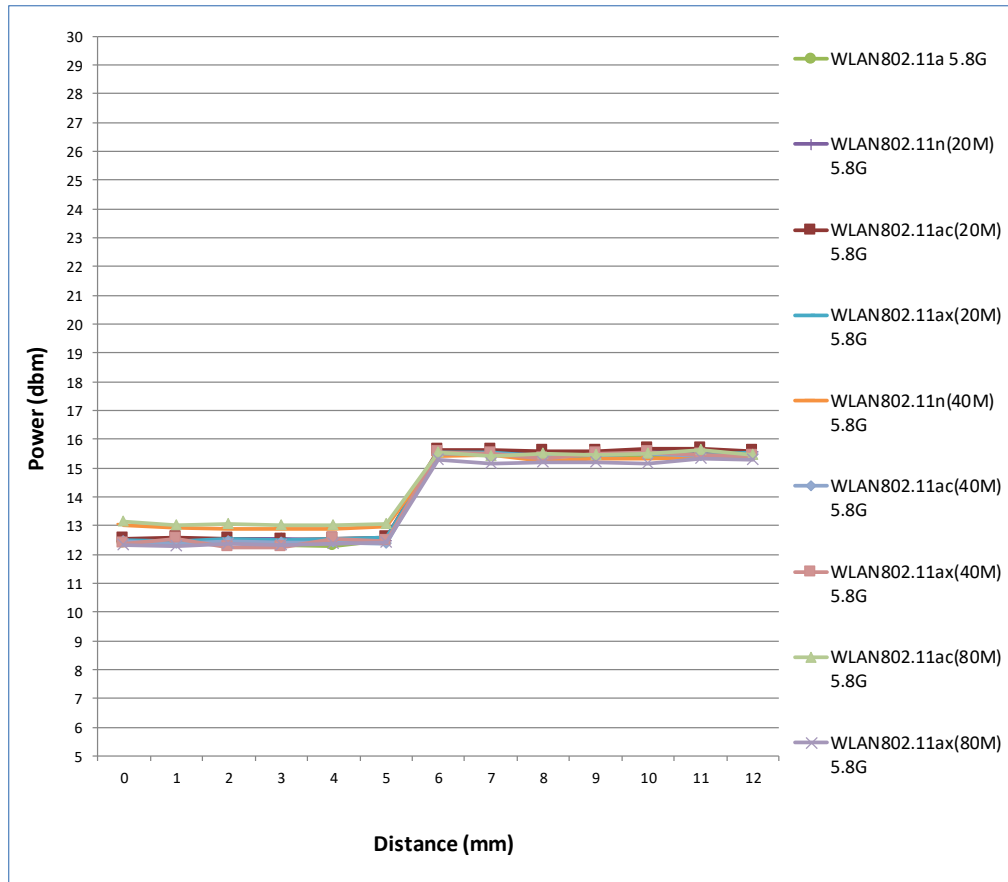
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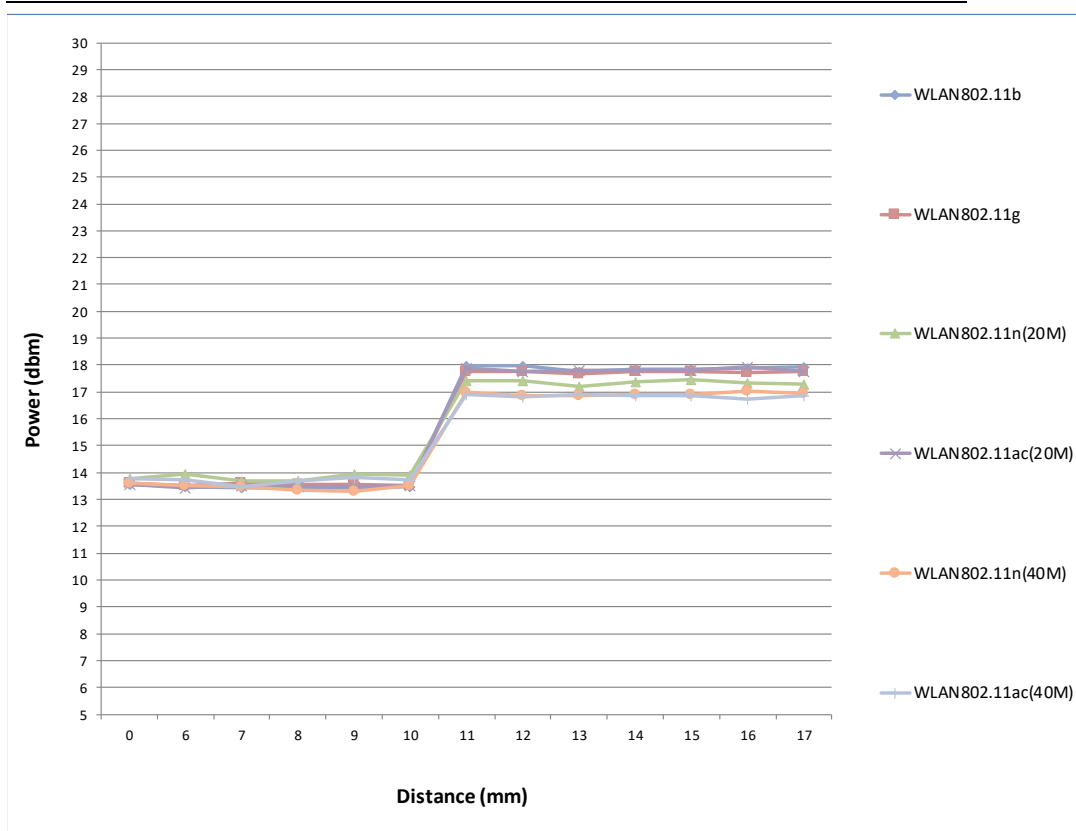
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WLAN only

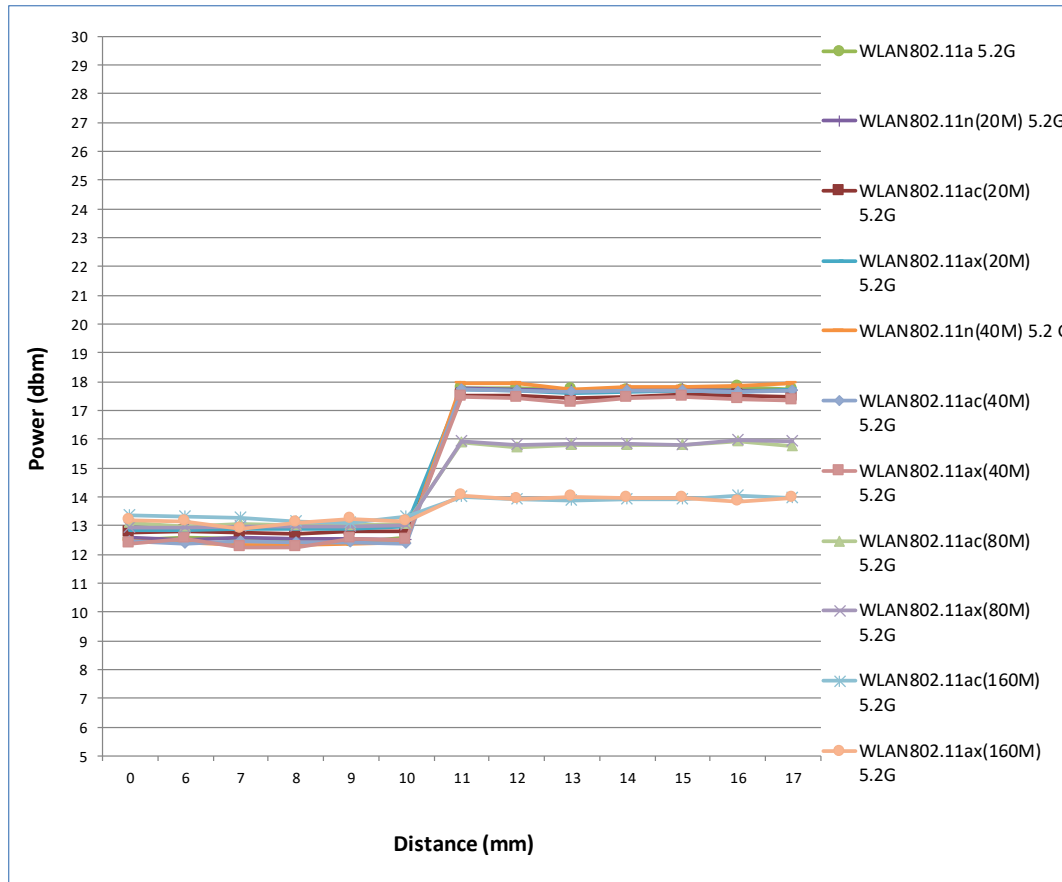
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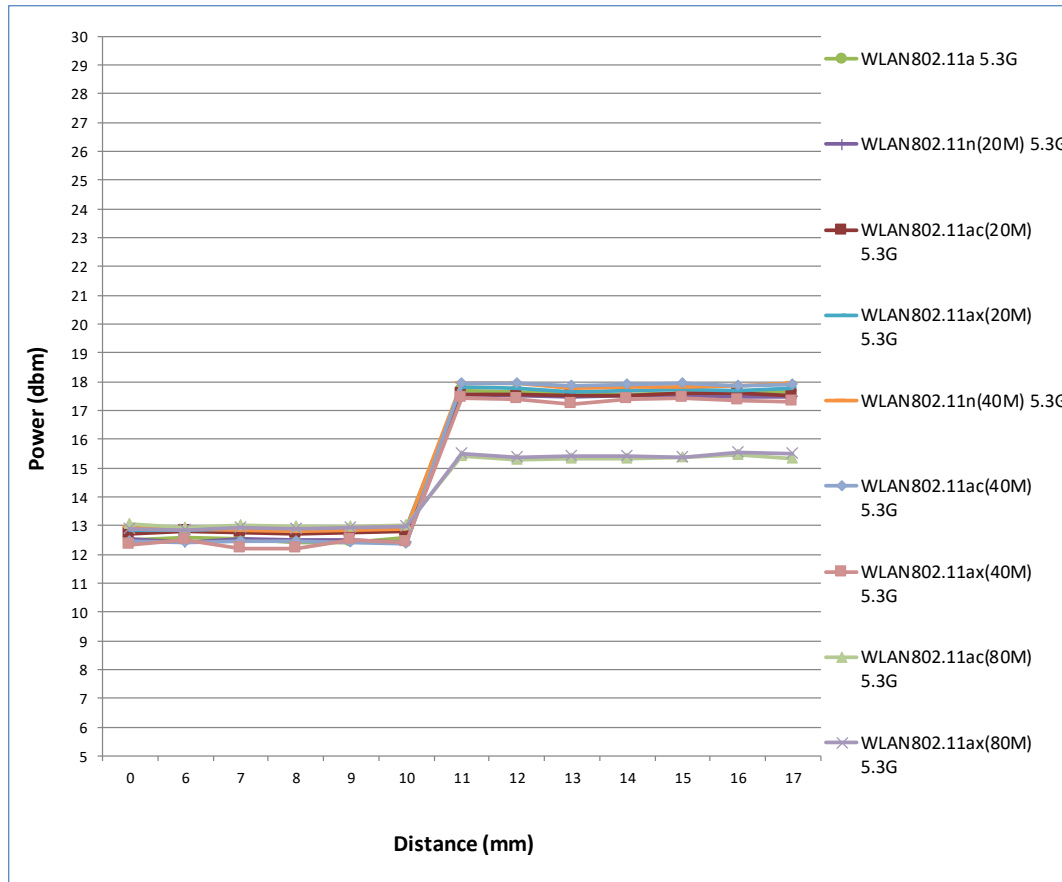
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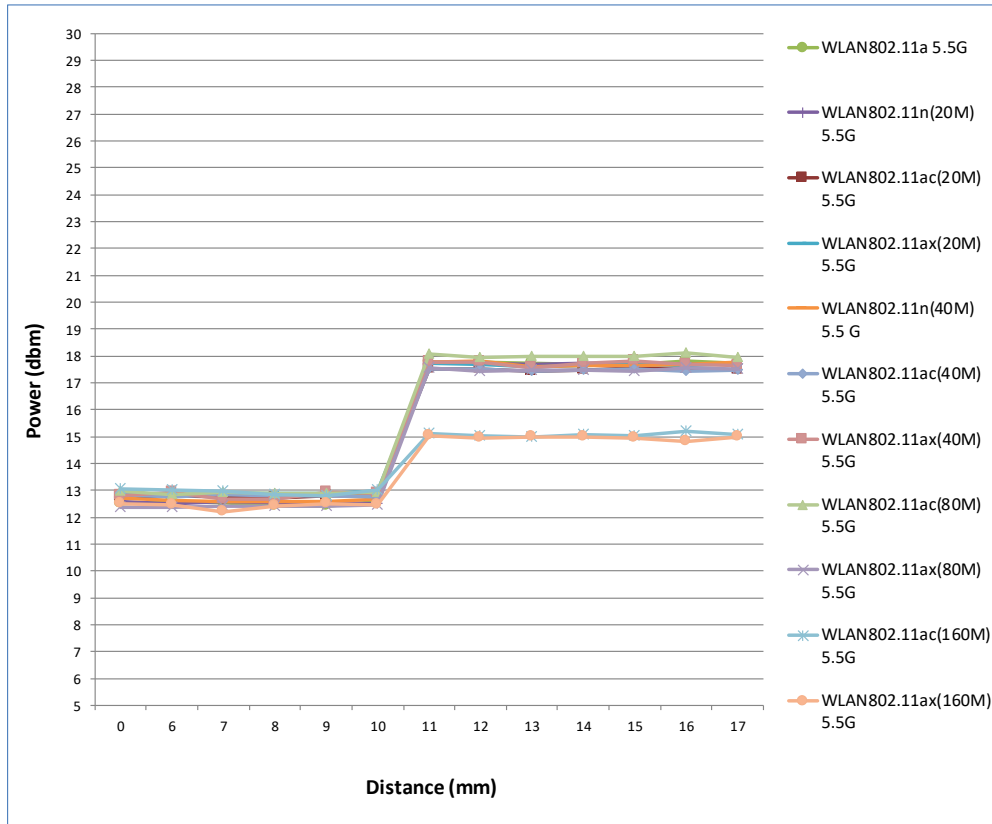
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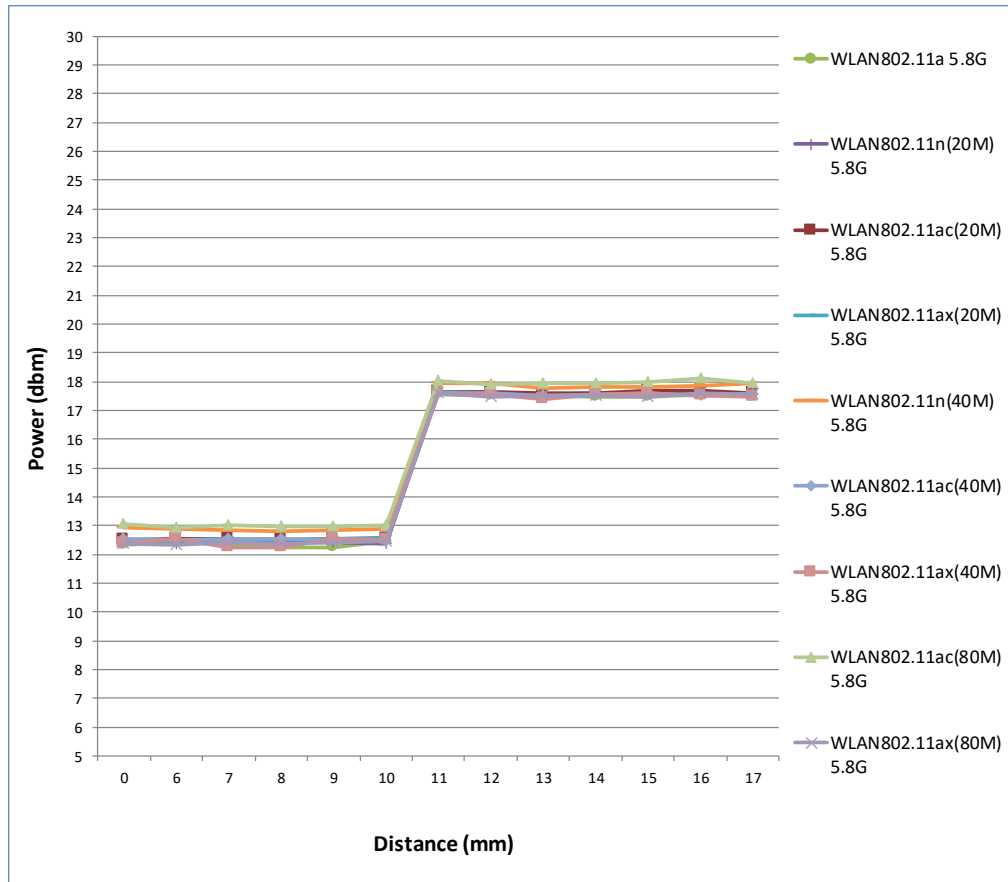
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Table 1.6.5 Tilt angle test results for WWAN top and top curve

P-sensor ON/OFF	-50 deg	-45 deg	-40 deg	-30 deg	-20 deg	-10 deg	0 deg	10 deg	20 deg	30 deg	40 deg	45 deg	50 deg
20mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

Table 1.6.6 Tilt angle test results for WLAN Main top and top curve

P-sensor ON/OFF	-50 deg	-45 deg	-40 deg	-30 deg	-20 deg	-10 deg	0 deg	10 deg	20 deg	30 deg	40 deg	45 deg	50 deg
5mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

Table 1.6.7 Tilt angle test results for WLAN Aux top and top curve

P-sensor ON/OFF	-50 deg	-45 deg	-40 deg	-30 deg	-20 deg	-10 deg	0 deg	10 deg	20 deg	30 deg	40 deg	45 deg	50 deg
10mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

During the tilt angle testing for WWAN top and top curve, the sensor is not released in 20mm, so 20-1=19mm is used in the SAR measurement.

During the tilt angle testing for WLAN Main top and top curve, the sensor is not released in 5mm, so 5-1=4mm is used in the SAR measurement.

During the tilt angle testing for WLAN Aux top and top curve, the sensor is not released in 10mm, so 10-1=9mm is used in the SAR measurement.

#### Note:

1. The triggering variations and hysteresis effect has been evaluated separately according to the tissue-equivalent medium required for each frequency band, and sensor triggering does not change with different tissue-equivalent media.
2. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

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### 1.6.6 Operation description for P-sensor

#### Power Reduction Design Specification (for P-sensor)

The mechanism of power reduction is used for WWAN/WLAN. The reduced power for each technology/band is defined in Table1-1. With P-sensor mechanism, please refer to WWAN/WLAN reduced power table in section 1.3 to be the WWAN/WLAN default power when P-sensor failure or malfunction.

**Table1-1 : The power reduction scenario table**

Transmission mode	Band	Power Reduction
WWAN only and WWAN + WLAN	WWAN	YES
WLAN only and WWAN + WLAN	WLAN	YES
All	BT	NO

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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 in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

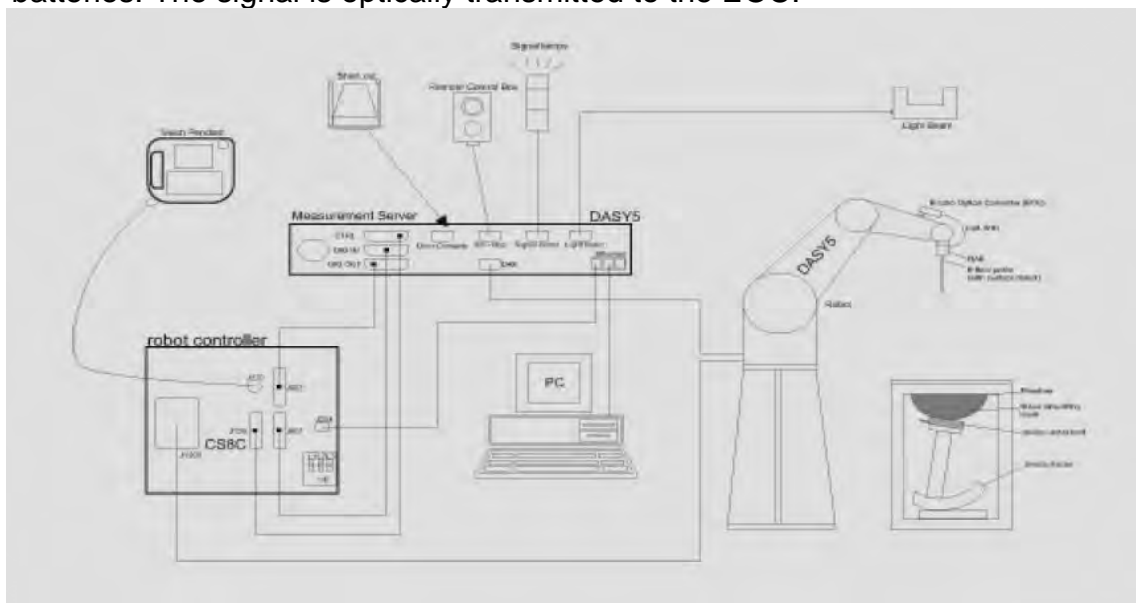


Fig. a The block diagram of SAR system

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

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## 1.8 System Components


### EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2300/2450/2600 /5200/5300/5600/5800MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very 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	<p>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.</p>	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

## DEVICE HOLDER

Construction	<p>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>	
		<b>Device Holder</b>

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### 1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within  $\pm 10\%$  from the target SAR values. These tests were done at 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.

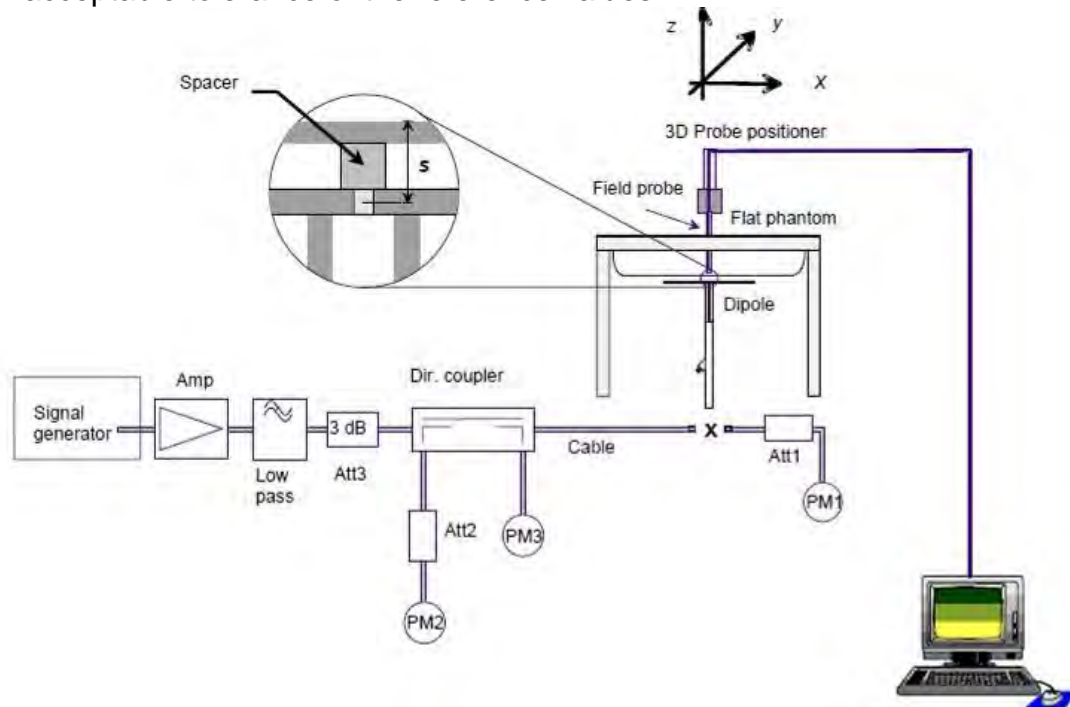


Fig. b The block diagram of system verification

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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	1078	750	Head	8.58	2.12	8.48	-1.17%	Sep. 01, 2021
D835V2	4d166	835	Head	9.49	2.29	9.16	-3.48%	Sep. 01, 2021
D1750V2	1111	1750	Head	36.40	8.92	35.68	-1.98%	Sep. 02, 2021
D1900V2	5d173	1900	Head	39.30	9.82	39.28	-0.05%	Sep. 02, 2021
D2300V2	1092	2300	Head	48.00	12.40	49.60	3.33%	Sep. 03, 2021
D2600V2	1005	2600	Head	56.90	14.10	56.40	-0.88%	Sep. 03, 2021

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D2450V2	727	2450	Head	53.9	13.10	52.4	-2.78%	Sep. 04, 2021
D2450V2			Head	53.9	13.00	52.00	-3.53%	Sep. 08, 2021

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5200	Head	77.9	7.44	74.4	-4.49%	Sep. 05, 2021
			Head	77.9	7.53	75.3	-3.34%	Sep. 09, 2021
		5300	Head	80.4	7.93	79.3	-1.37%	Sep. 05, 2021
			Head	80.4	7.93	79.3	-1.37%	Sep. 10, 2021
		5600	Head	83.9	8.09	80.9	-3.58%	Sep. 06, 2021
			Head	83.9	8.02	80.2	-4.41%	Sep. 11, 2021
		5800	Head	80.9	8.15	81.5	0.74%	Sep. 07, 2021
			Head	80.9	8.26	82.6	2.10%	Sep. 12, 2021

Table 1. Results of system verification

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### 1.10 Tissue Simulant Fluid for the Frequency Band

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

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

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

Tissue Type	Measurement Date	Measured Frequency, $\nu$	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Ambient temperature	liquid temperature
Head	Sep. 01, 2021	704	42.181	0.890	42.280	0.892	0.23%	0.24%	22.6	21.8
		707.5	42.162	0.890	42.259	0.893	0.23%	0.30%		
		711	42.144	0.890	42.243	0.893	0.24%	0.31%		
		750	41.942	0.893	42.041	0.896	0.24%	0.25%		
		782	41.775	0.896	41.874	0.899	0.24%	0.35%		
		793	41.718	0.897	41.817	0.900	0.24%	0.28%		
		821.5	41.684	0.899	41.701	0.909	0.04%	1.07%		
		826.4	41.545	0.899	41.686	0.910	0.34%	1.20%		
		829	41.531	0.900	41.675	0.911	0.35%	1.30%		
		831.5	41.518	0.900	41.665	0.912	0.35%	1.40%		
		835	41.500	0.900	41.654	0.913	0.37%	1.50%		
		836.5	41.500	0.902	41.646	0.914	0.35%	1.39%		
		836.6	41.500	0.902	41.647	0.915	0.35%	1.47%		
		841.5	41.500	0.907	41.628	0.916	0.31%	0.99%		
	844	41.500	0.910	41.621	0.917	0.29%	0.77%			
	846.6	41.500	0.912	41.610	0.918	0.26%	0.57%			
	Sep. 02, 2021	1720	40.126	1.354	40.225	1.355	0.25%	0.13%	22.4	21.6
		1732.5	40.107	1.361	40.205	1.363	0.24%	0.15%		
		1745	40.087	1.368	40.186	1.370	0.25%	0.14%		
		1750	40.079	1.371	40.178	1.373	0.25%	0.14%		
		1770	40.447	1.383	40.146	1.384	-0.74%	0.11%		
		1852.4	40.000	1.400	40.099	1.405	0.25%	0.33%		
		1860	40.000	1.400	40.099	1.405	0.25%	0.35%		
		1880	40.000	1.400	40.099	1.405	0.25%	0.39%		
		1882.5	40.000	1.400	40.099	1.405	0.25%	0.39%		
		1900	40.000	1.400	40.099	1.406	0.25%	0.40%		
	Sep. 03, 2021	2300	39.467	1.667	39.566	1.684	0.25%	1.03%	22.3	21.7
		2310	39.449	1.676	39.548	1.692	0.25%	0.99%		
		2506	39.129	1.861	39.228	1.862	0.25%	0.03%		
		2510	39.124	1.865	39.223	1.865	0.25%	-0.01%		
		2535	39.092	1.893	39.191	1.888	0.25%	-0.27%		
		2549.5	39.073	1.909	39.172	1.901	0.25%	-0.39%		
		2560	39.060	1.920	39.159	1.910	0.25%	-0.51%		
		2580	39.035	1.942	39.134	1.928	0.25%	-0.70%		
		2593	39.018	1.956	39.117	1.940	0.25%	-0.82%		
		2595	39.015	1.958	39.115	1.942	0.26%	-0.84%		
2600		39.009	1.964	39.108	1.946	0.25%	-0.88%			
2610		38.996	1.975	39.095	1.955	0.25%	-0.97%			
2636.5	38.963	2.003	39.061	1.980	0.25%	-1.17%				
2680	38.907	2.051	39.006	2.019	0.25%	-1.54%				

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Tissue Type	Measurement Date	measured Frequency (MHz)	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	measured Dielectric Constant	measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Ambient temperature	liquid temperature
Head	Sep. 04, 2021	2402	39.285	1.757	39.384	1.771	0.25%	0.75%	22.3	21.6
		2412	39.268	1.766	39.367	1.779	0.25%	0.73%		
		2437	39.223	1.788	39.322	1.801	0.25%	0.68%		
		2441	39.216	1.792	39.315	1.804	0.25%	0.67%		
		2450	39.200	1.800	39.299	1.812	0.25%	0.65%		
		2457	39.191	1.808	39.290	1.818	0.25%	0.57%		
		2462	39.185	1.813	39.284	1.822	0.25%	0.51%		
		2480	39.162	1.827	39.261	1.838	0.25%	0.64%		
	Sep. 05, 2021	5180	36.009	4.635	36.108	4.642	0.28%	0.17%	22.1	21.1
		5190	35.997	4.645	36.096	4.653	0.27%	0.17%		
		5200	35.986	4.655	36.085	4.663	0.28%	0.17%		
		5210	35.974	4.665	36.073	4.673	0.28%	0.17%		
		5220	35.963	4.676	36.062	4.683	0.28%	0.17%		
		5230	35.951	4.686	36.050	4.694	0.28%	0.17%		
		5250	35.929	4.706	36.028	4.714	0.28%	0.17%		
		5260	35.917	4.717	36.016	4.725	0.28%	0.17%		
		5270	35.906	4.727	36.005	4.735	0.28%	0.17%		
		5280	35.894	4.737	35.993	4.745	0.28%	0.17%		
		5290	35.883	4.747	35.982	4.755	0.28%	0.17%		
		5300	35.871	4.758	35.970	4.766	0.28%	0.17%		
	5310	35.860	4.768	35.959	4.776	0.28%	0.17%			
	Sep. 06, 2021	5530	35.609	4.993	35.708	5.003	0.28%	0.20%	22.6	21.7
		5550	35.586	5.014	35.685	5.023	0.28%	0.19%		
		5570	35.563	5.034	35.662	5.044	0.28%	0.19%		
		5590	35.540	5.055	35.639	5.064	0.28%	0.19%		
		5600	35.529	5.065	35.628	5.074	0.28%	0.19%		
		5610	35.517	5.075	35.616	5.085	0.28%	0.19%		
		5670	35.449	5.137	35.548	5.146	0.28%	0.18%		
		5690	35.426	5.157	35.525	5.166	0.28%	0.18%		
	Sep. 07, 2021	5710	35.403	5.178	35.502	5.187	0.28%	0.18%	22.2	21.4
		5775	35.329	5.244	35.428	5.254	0.28%	0.18%		
		5795	35.306	5.265	35.405	5.274	0.28%	0.18%		
		5800	35.300	5.270	35.399	5.279	0.28%	0.18%		

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Ambient temperature	liquid temperature
Head	Sep. 08, 2021	2402	39.285	1.757	39.384	1.771	0.25%	0.75%	22.4	21.5
		2412	39.268	1.766	39.367	1.779	0.25%	0.73%		
		2437	39.223	1.788	39.322	1.801	0.25%	0.68%		
		2441	39.216	1.792	39.315	1.804	0.25%	0.67%		
		2450	39.200	1.800	39.299	1.812	0.25%	0.65%		
		2457	39.191	1.808	39.290	1.818	0.25%	0.57%		
		2462	39.185	1.813	39.284	1.822	0.25%	0.51%		
	Sep. 09, 2021	2480	39.162	1.827	39.261	1.838	0.25%	0.64%	22.2	21.3
		5180	36.009	4.635	36.108	4.642	0.28%	0.17%		
		5190	35.997	4.645	36.096	4.653	0.27%	0.17%		
		5200	35.986	4.655	36.085	4.663	0.28%	0.17%		
		5220	35.963	4.676	36.062	4.683	0.28%	0.17%		
		5230	35.951	4.686	36.050	4.694	0.28%	0.17%		
	Sep. 10, 2021	5250	35.929	4.706	36.028	4.714	0.28%	0.17%	22.7	21.6
		5260	35.917	4.717	36.016	4.725	0.28%	0.17%		
		5270	35.906	4.727	36.005	4.735	0.28%	0.17%		
		5280	35.894	4.737	35.993	4.745	0.28%	0.17%		
		5290	35.883	4.747	35.982	4.755	0.28%	0.17%		
	Sep. 11, 2021	5300	35.871	4.758	35.970	4.766	0.28%	0.17%	22.5	21.8
		5310	35.860	4.768	35.959	4.776	0.28%	0.17%		
		5530	35.609	4.993	35.708	5.003	0.28%	0.20%		
		5550	35.586	5.014	35.685	5.023	0.28%	0.19%		
		5570	35.563	5.034	35.662	5.044	0.28%	0.19%		
		5590	35.540	5.055	35.639	5.064	0.28%	0.19%		
		5600	35.529	5.065	35.628	5.074	0.28%	0.19%		
		5610	35.517	5.075	35.616	5.085	0.28%	0.19%		
	Sep. 12, 2021	5670	35.449	5.137	35.548	5.146	0.28%	0.18%	22.7	21.2
		5690	35.426	5.157	35.525	5.166	0.28%	0.18%		
		5710	35.403	5.178	35.502	5.187	0.28%	0.18%		
		5755	35.351	5.224	35.450	5.233	0.28%	0.18%		
		5775	35.329	5.244	35.428	5.254	0.28%	0.18%		
	5795	35.306	5.265	35.405	5.274	0.28%	0.18%			
5800	35.300	5.270	35.399	5.279	0.28%	0.18%				

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the body tissue simulating liquid:

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

Body Simulating Liquids for 5 GHz, Manufactured by SPEAG:

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

Table 3. Recipes for Tissue Simulating Liquid

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## 1.11 Evaluation Procedures

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

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

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

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

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

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

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

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

## 1.12 Probe Calibration Procedures

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

### 1.13.1 Transfer Calibration with Temperature Probes

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

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

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

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

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

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

### 1.13.2 Calibration with Analytical Fields

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

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

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

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

## References

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

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### 1.13 Test Standards and Limits

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

1. Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
2. Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
3. Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of

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

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

Table 4. RF exposure limits

Notes:

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

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## 2. Summary of Results

### 2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

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

### 2.2 Summary of Results

#### WCDMA Band II / Band V (sensor off)

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back Surface	16	9538	1907.6	25	24.19	120.50%	0.448	0.540	-
WCDMA Band II	Top Edge	19	9262	1852.4	25	24.03	125.03%	0.810	1.013	277
WCDMA Band II	Top Edge	19	9400	1880	25	24.16	121.34%	0.604	0.733	-
WCDMA Band II	Top Edge	19	9538	1907.6	25	24.19	120.50%	0.353	0.425	-
WCDMA Band II	Top Edge*	19	9262	1852.4	25	24.03	125.03%	0.799	0.999	-
WCDMA Band II	Top Curve Edge	19	9538	1907.6	25	24.19	120.50%	0.339	0.409	-
WCDMA Band II	Bottom Edge	0	9538	1907.6	25	24.19	120.50%	0.001	0.001	-
WCDMA Band II	Right Edge	0	9538	1907.6	25	24.19	120.50%	0.056	0.067	-
WCDMA Band II	Left Edge	0	9538	1907.6	25	24.19	120.50%	0.230	0.277	-
WCDMA Band V	Back Surface	16	4183	836.6	25	24.21	119.95%	0.150	0.180	-
WCDMA Band V	Top Edge	19	4183	836.6	25	24.21	119.95%	0.117	0.140	-
WCDMA Band V	Top Curve Edge	19	4183	836.6	25	24.21	119.95%	0.099	0.119	-
WCDMA Band V	Bottom Edge	0	4183	836.6	25	24.21	119.95%	0.001	0.001	-
WCDMA Band V	Right Edge	0	4183	836.6	25	24.21	119.95%	0.073	0.088	-
WCDMA Band V	Left Edge	0	4132	826.4	25	23.98	126.47%	0.224	0.283	-
WCDMA Band V	Left Edge	0	4183	836.6	25	24.21	119.95%	0.235	0.282	-
WCDMA Band V	Left Edge	0	4233	846.6	25	23.91	128.53%	0.283	0.364	278

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**WCDMA Band II / Band V (sensor on)**

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back Surface	0	9262	1852.4	16	15.31	117.22%	0.623	0.730	-
WCDMA Band II	Back Surface	0	9400	1880	16	15.42	114.29%	0.647	0.739	279
WCDMA Band II	Back Surface	0	9538	1907.6	16	15.43	114.02%	0.620	0.707	-
WCDMA Band II	Top Edge	0	9538	1907.6	16	15.43	114.02%	0.405	0.462	-
WCDMA Band II	Top Curve Edge	0	9538	1907.6	16	15.43	114.02%	0.401	0.457	-
WCDMA Band V	Back Surface	0	4183	836.6	19.5	18.78	118.03%	0.377	0.445	-
WCDMA Band V	Top Edge	0	4132	826.4	19.5	18.68	120.78%	0.558	0.674	-
WCDMA Band V	Top Edge	0	4183	836.6	19.5	18.78	118.03%	0.554	0.654	-
WCDMA Band V	Top Edge	0	4233	846.6	19.5	18.72	119.67%	0.712	0.852	280
WCDMA Band V	Top Curve Edge	0	4183	836.6	19.5	18.78	118.03%	0.603	0.712	-

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**LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 14 / Band 25**  
**(sensor off)**

Band	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)		Pbit page				
												Measured	Reported					
LTE Band 2	20MHz	QPSK	1RB	0	Back Surface	16.00	18700	1860	25	24.23	119.40%	0.568	0.678	281				
LTE Band 2					Back Surface	16.00	18900	1880	25	24.26	118.58%	0.492	0.583	-				
LTE Band 2					Back Surface	16.00	19100	1900	25	24.36	115.88%	0.472	0.547	-				
LTE Band 2					Top Edge	19.00	19100	1900	25	24.36	115.88%	0.353	0.409	-				
LTE Band 2					Top Curve Edge	19.00	19100	1900	25	24.36	115.88%	0.347	0.402	-				
LTE Band 2					Bottom Edge	0.00	19100	1900	25	24.36	115.88%	0.001	0.001	-				
LTE Band 2					Right Edge	0.00	19100	1900	25	24.36	115.88%	0.224	0.260	-				
LTE Band 2					Left Edge	0.00	19100	1900	25	24.36	115.88%	0.187	0.217	-				
LTE Band 4					20MHz	QPSK	1RB	0	Back Surface	16.00	20050	1720	24	23.92	101.86%	0.419	0.427	-
LTE Band 4									Top Edge	19.00	20050	1720	24	23.92	101.86%	0.929	0.946	282
LTE Band 4	Top Edge	19.00	20175	1732.5					24	23.81	104.47%	0.794	0.830	-				
LTE Band 4	Top Edge	19.00	20300	1745					24	23.76	105.68%	0.641	0.677	-				
LTE Band 4	Top Edge*	19.00	20050	1720					24	23.92	101.86%	0.908	0.925	-				
LTE Band 4	Top Curve Edge	19.00	20050	1720					24	23.92	101.86%	0.613	0.624	-				
LTE Band 4	Bottom Edge	0.00	20050	1720					24	23.92	101.86%	0.001	0.001	-				
LTE Band 4	Right Edge	0.00	20050	1720					24	23.92	101.86%	0.143	0.146	-				
LTE Band 4	Left Edge	0.00	20050	1720					24	23.92	101.86%	0.110	0.112	-				
LTE Band 5	10MHz	QPSK	1RB	0					Back Surface	16.00	20450	829	25	22.92	161.44%	0.127	0.205	-
LTE Band 5					Back Surface	16.00	20525	836.5	25	24.04	124.74%	0.125	0.156	-				
LTE Band 5					Back Surface	16.00	20600	844	25	22.97	159.59%	0.204	0.326	283				
LTE Band 5					Top Curve Edge	19.00	20525	836.5	25	24.04	124.74%	0.045	0.056	-				
LTE Band 5					Bottom Edge	0.00	20525	836.5	25	24.04	124.74%	0.001	0.001	-				
LTE Band 5					Right Edge	0.00	20525	836.5	25	24.04	124.74%	0.089	0.111	-				
LTE Band 5					Left Edge	0.00	20450	829	25	23.98	126.47%	0.052	0.066	-				
LTE Band 5					Left Edge	0.00	20525	836.5	25	24.04	124.74%	0.051	0.064	-				
LTE Band 5					Left Edge	0.00	20600	844	25	24.02	125.31%	0.057	0.071	-				
LTE Band 7					20MHz	QPSK	1RB	0	Back Surface	16.00	21350	2560	21.9	21.16	118.58%	0.249	0.295	-
LTE Band 7	Top Edge	19.00	21350	2560					21.9	21.16	118.58%	0.097	0.115	-				
LTE Band 7	Top Curve Edge	19.00	21350	2560					21.9	21.16	118.58%	0.123	0.146	-				
LTE Band 7	Bottom Edge	0.00	21350	2560					21.9	21.16	118.58%	0.001	0.001	-				
LTE Band 7	Right Edge	0.00	21350	2560					21.9	21.16	118.58%	0.438	0.519	-				
LTE Band 7	Left Edge	0.00	20850	2510					21.9	21.09	120.50%	0.789	0.951	284				
LTE Band 7	Left Edge	0.00	21100	2535					21.9	21.07	121.06%	0.667	0.807	-				
LTE Band 7	Left Edge	0.00	21350	2560					21.9	21.16	118.58%	0.401	0.475	-				
LTE Band 12	10MHz	QPSK	1RB	0					Back Surface	16.00	23060	704	25	24.03	125.03%	0.165	0.206	-
LTE Band 12									Back Surface	16.00	23095	707.5	25	24.10	123.03%	0.166	0.204	-
LTE Band 12					Back Surface	16.00	23130	711	25	24.17	121.06%	0.233	0.282	285				
LTE Band 12					Top Edge	19.00	23130	711	25	24.17	121.06%	0.090	0.109	-				
LTE Band 12					Top Curve Edge	19.00	23130	711	25	24.17	121.06%	0.138	0.167	-				
LTE Band 12					Bottom Edge	0.00	23130	711	25	24.17	121.06%	0.001	0.001	-				
LTE Band 12					Right Edge	0.00	23130	711	25	24.17	121.06%	0.037	0.045	-				
LTE Band 12					Left Edge	0.00	23130	711	25	24.17	121.06%	0.053	0.064	-				
LTE Band 13					10MHz	QPSK	1RB	0	Back Surface	16.00	23230	782	25	24.29	117.76%	0.203	0.239	286
LTE Band 13									Top Edge	19.00	23230	782	25	24.29	117.76%	0.121	0.142	-
LTE Band 13	Top Curve Edge	19.00	23230	782					25	24.29	117.76%	0.111	0.131	-				
LTE Band 13	Bottom Edge	0.00	23230	782					25	24.29	117.76%	0.001	0.001	-				
LTE Band 13	Right Edge	0.00	23230	782					25	24.29	117.76%	0.001	0.001	-				
LTE Band 13	Left Edge	0.00	23230	782					25	24.29	117.76%	0.045	0.053	-				
LTE Band 14	10MHz	QPSK	1RB	0					Back Surface	16.00	23330	793	25	24.25	118.85%	0.206	0.245	287
LTE Band 14									Top Edge	19.00	23330	793	25	24.25	118.85%	0.116	0.138	-
LTE Band 14									Top Curve Edge	19.00	23330	793	25	24.25	118.85%	0.112	0.133	-
LTE Band 14									Bottom Edge	0.00	23330	793	25	24.25	118.85%	0.001	0.001	-
LTE Band 14					Right Edge	0.00	23330	793	25	24.25	118.85%	0.044	0.052	-				
LTE Band 14					Left Edge	0.00	23330	793	25	24.25	118.85%	0.071	0.084	-				
LTE Band 25					20MHz	QPSK	1RB	0	Back Surface	16.00	26140	1860	25	24.28	118.03%	0.566	0.668	-
LTE Band 25									Top Edge	19.00	26140	1860	25	24.28	118.03%	0.763	0.901	288
LTE Band 25									Top Edge	19.00	26365	1882.5	25	24.22	119.67%	0.651	0.779	-
LTE Band 25									Top Edge	19.00	26590	1905	25	24.19	120.50%	0.373	0.449	-
LTE Band 25	Top Curve Edge	19.00	26140	1860					25	24.28	118.03%	0.529	0.624	-				
LTE Band 25	Bottom Edge	0.00	26140	1860					25	24.28	118.03%	0.001	0.001	-				
LTE Band 25	Right Edge	0.00	26140	1860					25	24.28	118.03%	0.100	0.118	-				
LTE Band 25	Left Edge	0.00	26140	1860					25	24.28	118.03%	0.168	0.198	-				

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

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**LTE FDD Band 26 / Band 30 / Band 66 / LTE TDD Band 38 / Band 41 (sensor off)**

Band	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	1RB	0	Back Surface	16.00	26765	821.5	25	23.96	127.06%	0.128	0.163	-				
LTE Band 26					Back Surface	16.00	26865	831.5	25	23.98	126.47%	0.124	0.157	-				
LTE Band 26					Back Surface	16.00	26965	841.5	25	24.03	125.03%	0.211	0.264	289				
LTE Band 26					Top Edge	19.00	26965	841.5	25	24.03	125.03%	0.138	0.173	-				
LTE Band 26					Top Curve Edge	19.00	26965	841.5	25	24.03	125.03%	0.051	0.064	-				
LTE Band 26					Bottom Edge	0.00	26965	841.5	25	24.03	125.03%	0.001	0.001	-				
LTE Band 26					Right Edge	0.00	26965	841.5	25	24.03	125.03%	0.095	0.119	-				
LTE Band 26					Left Edge	0.00	26965	841.5	25	24.03	125.03%	0.058	0.073	-				
LTE Band 30	10MHz	QPSK	1 RB	0	Back Surface	16.00	27710	2310	23.5	23.37	103.04%	0.228	0.235	-				
LTE Band 30					Top Edge	19.00	27710	2310	23.5	23.37	103.04%	0.208	0.214	-				
LTE Band 30					Top Curve Edge	19.00	27710	2310	23.5	23.37	103.04%	0.195	0.201	-				
LTE Band 30					Bottom Edge	0.00	27710	2310	23.5	23.37	103.04%	0.001	0.001	-				
LTE Band 30					Right Edge	0.00	27710	2310	23.5	23.37	103.04%	0.003	0.003	-				
LTE Band 30					Left Edge	0.00	27710	2310	23.5	23.37	103.04%	0.234	0.241	290				
LTE Band 38					20MHz	QPSK	1RB	0	Back Surface	16.00	37850	2580	24.5	23.73	119.40%	0.243	0.290	-
LTE Band 38									Top Edge	19.00	37850	2580	24.5	23.73	119.40%	0.099	0.118	-
LTE Band 38	Top Curve Edge	19.00	37850	2580					24.5	23.73	119.40%	0.117	0.140	-				
LTE Band 38	Bottom Edge	0.00	37850	2580					24.5	23.73	119.40%	0.056	0.067	-				
LTE Band 38	Right Edge	0.00	37850	2580					24.5	23.73	119.40%	0.001	0.001	-				
LTE Band 38	Left Edge	0.00	37850	2580					24.5	23.73	119.40%	0.292	0.349	291				
LTE Band 38	Right Edge	0.00	38000	2595					24.5	23.52	125.31%	0.272	0.341	-				
LTE Band 38	Left Edge	0.00	38150	2610					24.5	23.63	122.18%	0.224	0.274	-				
LTE Band 41	20MHz	QPSK	1RB	0	Back Surface	16.00	41055	2636.5	24.5	23.68	120.78%	0.161	0.194	-				
LTE Band 41					Top Edge	19.00	41055	2636.5	24.5	23.68	120.78%	0.041	0.050	-				
LTE Band 41					Top Curve Edge	19.00	41055	2636.5	24.5	23.68	120.78%	0.073	0.088	-				
LTE Band 41					Bottom Edge	0.00	41055	2636.5	24.5	23.68	120.78%	0.055	0.066	-				
LTE Band 41					Right Edge	0.00	41055	2636.5	24.5	23.68	120.78%	0.001	0.001	-				
LTE Band 41					Left Edge	0.00	39750	2506	24.5	23.53	125.03%	0.467	0.584	292				
LTE Band 41					Left Edge	0.00	40185	2549.5	24.5	23.66	121.34%	0.452	0.548	-				
LTE Band 41					Left Edge	0.00	40620	2593	24.5	23.63	122.18%	0.264	0.323	-				
LTE Band 41					Left Edge	0.00	41055	2636.5	24.5	23.68	120.78%	0.204	0.246	-				
LTE Band 41					Left Edge	0.00	41490	2680	24.5	23.38	129.42%	0.155	0.201	-				
LTE Band 66					20MHz	QPSK	1RB	0	Back Surface	16.00	132322	1745	24	23.87	103.04%	0.411	0.423	-
LTE Band 66									Top Edge	19.00	132072	1720	24	23.81	104.47%	0.829	0.866	293
LTE Band 66	Top Edge	19.00	132322	1745					24	23.87	103.04%	0.666	0.686	-				
LTE Band 66	Top Edge	19.00	132572	1770					24	23.63	108.89%	0.780	0.849	-				
LTE Band 66	Top Edge*	19.00	132072	1720					24	23.81	104.47%	0.811	0.847	-				
LTE Band 66	Top Curve Edge	19.00	132322	1745					24	23.87	103.04%	0.576	0.594	-				
LTE Band 66	Right Edge	0.00	132322	1745					24	23.87	103.04%	0.001	0.001	-				
LTE Band 66	Left Edge	0.00	132322	1745					24	23.87	103.04%	0.044	0.045	-				

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

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**LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 14 / Band 25  
Band 26 / Band 30 / Band 66 / LTE TDD Band 38 / Band 41 (sensor on)**

Band	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	1RB	0	Back Surface	0.00	18700	1860	15.6	15.28	107.65%	0.680	0.732	294
LTE Band 2					Back Surface	0.00	18900	1880	15.6	15.12	111.69%	0.606	0.677	-
LTE Band 2					Back Surface	0.00	19100	1900	15.6	15.37	105.44%	0.601	0.634	-
LTE Band 2					Top Edge	0.00	19100	1900	15.6	15.37	105.44%	0.343	0.362	-
LTE Band 2					Top Curve Edge	0.00	19100	1900	15.6	15.37	105.44%	0.333	0.351	-
LTE Band 4	20MHz	QPSK	1RB	0	Back Surface	0.00	20050	1720	16.9	16.55	108.39%	0.638	0.692	-
LTE Band 4					Back Surface	0.00	20175	1732.5	16.9	16.54	108.64%	0.608	0.661	-
LTE Band 4					Back Surface	0.00	20300	1745	16.9	16.46	110.66%	0.574	0.635	-
LTE Band 4					Top Edge	0.00	20050	1720	16.9	16.55	108.39%	0.701	0.760	295
LTE Band 4					Top Edge	0.00	20175	1732.5	16.9	16.54	108.64%	0.615	0.668	-
LTE Band 4	Top Curve Edge	0.00	20050	1720	16.9	16.55	108.39%	0.584	0.633	-				
LTE Band 5	10MHz	QPSK	1RB	0	Back Surface	0.00	20450	829	20	19.14	121.90%	0.436	0.531	296
LTE Band 5					Back Surface	0.00	20525	836.5	20	19.22	119.67%	0.423	0.506	-
LTE Band 5					Back Surface	0.00	20600	844	20	19.14	121.90%	0.424	0.517	-
LTE Band 5					Top Edge	0.00	20525	836.5	20	19.22	119.67%	0.323	0.387	-
LTE Band 5					Top Curve Edge	0.00	20525	836.5	20	19.22	119.67%	0.311	0.372	-
LTE Band 7	20MHz	QPSK	1 RB	0	Back Surface	0.00	20850	2510	15	14.53	111.43%	0.583	0.650	-
LTE Band 7					Back Surface	0.00	21100	2535	15	14.45	113.50%	0.637	0.723	297
LTE Band 7					Back Surface	0.00	21350	2560	15	14.38	115.35%	0.621	0.716	-
LTE Band 7					Top Edge	0.00	20850	2510	15	14.53	111.43%	0.581	0.647	-
LTE Band 7					Top Curve Edge	0.00	20850	2510	15	14.53	111.43%	0.639	0.712	-
LTE Band 12	10MHz	QPSK	1 RB	0	Back Surface	0.00	23060	704	20	19.03	125.03%	0.578	0.723	298
LTE Band 12					Back Surface	0.00	23095	707.5	20	19.07	123.88%	0.564	0.699	-
LTE Band 12					Back Surface	0.00	23130	711	20	19.17	121.06%	0.567	0.686	-
LTE Band 12					Top Edge	0.00	23130	711	20	19.17	121.06%	0.507	0.614	-
LTE Band 12					Top Curve Edge	0.00	23130	711	20	19.17	121.06%	0.509	0.616	-
LTE Band 13	10MHz	QPSK	1 RB	0	Back Surface	0.00	23230	782	20	19.23	119.40%	0.495	0.591	299
LTE Band 13					Top Edge	0.00	23230	782	20	19.23	119.40%	0.242	0.289	-
LTE Band 13					Top Curve Edge	0.00	23230	782	20	19.23	119.40%	0.231	0.276	-
LTE Band 14	10MHz	QPSK	1 RB	0	Back Surface	0.00	23330	793	19.5	18.89	115.08%	0.439	0.505	300
LTE Band 14					Top Edge	0.00	23330	793	19.5	18.89	115.08%	0.302	0.348	-
LTE Band 14					Top Curve Edge	0.00	23330	793	19.5	18.89	115.08%	0.314	0.361	-
LTE Band 25	20MHz	QPSK	1RB	0	Back Surface	0.00	26140	1860	15.6	15.25	108.39%	0.676	0.733	301
LTE Band 25					Back Surface	0.00	26365	1882.5	15.6	15.07	112.98%	0.648	0.732	-
LTE Band 25					Back Surface	0.00	26590	1905	15.6	15.22	109.14%	0.665	0.726	-
LTE Band 25					Top Edge	0.00	26140	1860	15.6	15.25	108.39%	0.417	0.452	-
LTE Band 25					Top Curve Edge	0.00	26140	1860	15.6	15.25	108.39%	0.409	0.443	-
LTE Band 26	15MHz	QPSK	1RB	0	Back Surface	0.00	26765	821.5	20	19.21	119.95%	0.401	0.481	-
LTE Band 26					Back Surface	0.00	26865	831.5	20	19.16	121.34%	0.411	0.499	-
LTE Band 26					Back Surface	0.00	26965	841.5	20	19.29	117.76%	0.431	0.508	302
LTE Band 26					Top Edge	0.00	26965	841.5	20	19.29	117.76%	0.330	0.389	-
LTE Band 26					Top Curve Edge	0.00	26965	841.5	20	19.29	117.76%	0.329	0.387	-
LTE Band 30	10MHz	QPSK	1 RB	0	Back Surface	0.00	27710	2310	16.5	15.71	119.95%	0.559	0.671	303
LTE Band 30					Top Edge	0.00	27710	2310	16.5	15.71	119.95%	0.439	0.527	-
LTE Band 30					Top Curve Edge	0.00	27710	2310	16.5	15.71	119.95%	0.444	0.533	-
LTE Band 38	20MHz	QPSK	1RB	0	Back Surface	0.00	37850	2580	17.3	16.59	117.76%	0.578	0.681	304
LTE Band 38					Back Surface	0.00	38000	2595	17.3	16.68	115.35%	0.581	0.670	-
LTE Band 38					Back Surface	0.00	38150	2610	17.3	16.78	112.72%	0.550	0.620	-
LTE Band 38					Top Edge	0.00	38150	2610	17.3	16.78	112.72%	0.413	0.466	-
LTE Band 38					Top Curve Edge	0.00	38150	2610	17.3	16.78	112.72%	0.398	0.449	-
LTE Band 41	20MHz	QPSK	1RB	0	Back Surface	0.00	39750	2506	17.3	16.92	109.14%	0.555	0.606	-
LTE Band 41					Back Surface	0.00	40185	2549.5	17.3	16.83	111.43%	0.523	0.583	-
LTE Band 41					Back Surface	0.00	40620	2593	17.3	16.94	108.64%	0.560	0.608	305
LTE Band 41					Back Surface	0.00	41055	2636.5	17.3	16.88	110.15%	0.523	0.576	-
LTE Band 41					Back Surface	0.00	41490	2680	17.3	16.89	109.90%	0.471	0.518	-
LTE Band 41	Top Edge	0.00	40620	2593	17.3	16.94	108.64%	0.163	0.177	-				
LTE Band 41	Top Curve Edge	0.00	40620	2593	17.3	16.94	108.64%	0.192	0.209	-				
LTE Band 66	20MHz	QPSK	1RB	0	Back Surface	0.00	132072	1720	16.9	16.51	109.40%	0.663	0.725	-
LTE Band 66					Back Surface	0.00	132322	1745	16.9	16.54	108.64%	0.628	0.682	-
LTE Band 66					Back Surface	0.00	132572	1770	16.9	16.37	112.98%	0.621	0.702	306
LTE Band 66					Top Edge	0.00	132322	1745	16.9	16.54	108.64%	0.604	0.656	-
LTE Band 66	Top Curve Edge	0.00	132322	1745	16.9	16.54	108.64%	0.619	0.672	-				

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### WLAN Antenna Hotspot (sensor off)

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
TX1	802.11b	Back Surface	0	1	2412	10.50	9.49	1.010	127.44%	0.213	0.271	307
	802.11b	Back Surface	0	6	2437	10.50	9.53	1.010	126.28%	0.165	0.208	-
	802.11b	Back Surface	0	11	2462	10.50	9.63	1.010	123.40%	0.177	0.218	-
	802.11b	Top Edge	4	11	2462	10.50	9.63	1.010	123.40%	0.103	0.127	-
	802.11b	Top Curve Edge	4	11	2462	10.50	9.63	1.010	123.40%	0.084	0.104	-
	802.11b	Bottom Edge	0	11	2462	10.50	9.63	1.010	123.40%	0.024	0.030	-
	802.11b	Right Edge	0	11	2462	10.50	9.63	1.010	123.40%	0.017	0.021	-
	802.11b	Left Edge	0	11	2462	10.50	9.63	1.010	123.40%	0.010	0.012	-
	802.11ac(160M)5.2G	Back Surface	0	50	5250	9.00	8.81	1.017	106.25%	0.128	0.136	308
	802.11ac(160M)5.2G	Top Edge	4	50	5250	9.00	8.81	1.017	106.25%	0.060	0.064	-
	802.11ac(160M)5.2G	Top Curve Edge	4	50	5250	9.00	8.81	1.017	106.25%	0.056	0.059	-
	802.11ac(160M)5.2G	Bottom Edge	0	50	5250	9.00	8.81	1.017	106.25%	0.048	0.051	-
	802.11ac(160M)5.2G	Right Edge	0	50	5250	9.00	8.81	1.017	106.25%	0.035	0.037	-
	802.11ac(160M)5.2G	Left Edge	0	50	5250	9.00	8.81	1.017	106.25%	0.022	0.023	-
	802.11ac(80M)5.3G	Back Surface	0	58	5290	9.00	8.45	1.016	115.32%	0.145	0.167	309
	802.11ac(80M)5.3G	Top Edge	4	58	5290	9.00	8.45	1.016	115.32%	0.072	0.083	-
	802.11ac(80M)5.3G	Top Curve Edge	4	58	5290	9.00	8.45	1.016	115.32%	0.079	0.091	-
	802.11ac(80M)5.3G	Bottom Edge	0	58	5290	9.00	8.45	1.016	115.32%	0.059	0.068	-
	802.11ac(80M)5.3G	Right Edge	0	58	5290	9.00	8.45	1.016	115.32%	0.038	0.044	-
	802.11ac(80M)5.3G	Left Edge	0	58	5290	9.00	8.45	1.016	115.32%	0.070	0.081	-
	802.11ac(80M)5.6G	Back Surface	0	106	5530	9.00	7.96	1.016	129.09%	0.090	0.116	-
	802.11ac(80M)5.6G	Back Surface	0	138	5690	9.00	8.14	1.016	123.85%	0.144	0.178	310
	802.11ac(80M)5.6G	Top Edge	4	138	5690	9.00	8.14	1.016	123.85%	0.055	0.068	-
	802.11ac(80M)5.6G	Top Curve Edge	4	138	5690	9.00	8.14	1.016	123.85%	0.080	0.099	-
	802.11ac(80M)5.6G	Bottom Edge	0	138	5690	9.00	8.14	1.016	123.85%	0.001	0.001	-
	802.11ac(80M)5.6G	Right Edge	0	138	5690	9.00	8.14	1.016	123.85%	0.001	0.001	-
	802.11ac(80M)5.6G	Left Edge	0	138	5690	9.00	8.14	1.016	123.85%	0.088	0.109	-
	802.11ac(160M)5.6G	Back Surface	0	114	5570	9.00	8.55	1.017	112.80%	0.158	0.178	311
	802.11ac(160M)5.6G	Top Edge	4	114	5570	9.00	8.55	1.017	112.80%	0.074	0.083	-
	802.11ac(160M)5.6G	Top Curve Edge	4	114	5570	9.00	8.55	1.017	112.80%	0.096	0.108	-
802.11ac(160M)5.6G	Bottom Edge	0	114	5570	9.00	8.55	1.017	112.80%	0.037	0.042	-	
802.11ac(160M)5.6G	Right Edge	0	114	5570	9.00	8.55	1.017	112.80%	0.032	0.036	-	
802.11ac(160M)5.6G	Left Edge	0	114	5570	9.00	8.55	1.017	112.80%	0.034	0.038	-	
802.11ac(80M)5.8G	Back Surface	0	155	5775	9.00	8.32	1.016	118.82%	0.201	0.239	312	
802.11ac(80M)5.8G	Top Edge	4	155	5775	9.00	8.32	1.016	118.82%	0.061	0.072	-	
802.11ac(80M)5.8G	Top Curve Edge	4	155	5775	9.00	8.32	1.016	118.82%	0.040	0.048	-	
802.11ac(80M)5.8G	Bottom Edge	0	155	5775	9.00	8.32	1.016	118.82%	0.035	0.042	-	
802.11ac(80M)5.8G	Right Edge	0	155	5775	9.00	8.32	1.016	118.82%	0.024	0.029	-	
802.11ac(80M)5.8G	Left Edge	0	155	5775	9.00	8.32	1.016	118.82%	0.053	0.063	-	
TX2	802.11b	Back Surface	4	1	2412	10.50	9.26	1.010	134.38%	0.224	0.301	313
	802.11b	Back Surface	4	6	2437	10.50	9.37	1.010	131.02%	0.133	0.174	-
	802.11b	Back Surface	4	11	2462	10.50	9.57	1.010	125.12%	0.135	0.169	-
	802.11b	Top Edge	9	11	2462	10.50	9.57	1.010	125.12%	0.001	0.001	-
	802.11b	Top Curve Edge	9	11	2462	10.50	9.57	1.010	125.12%	0.001	0.001	-
	802.11b	Bottom Edge	0	11	2462	10.50	9.57	1.010	125.12%	0.001	0.001	-
	802.11b	Right Edge	0	11	2462	10.50	9.57	1.010	125.12%	0.001	0.001	-
	802.11b	Left Edge	0	11	2462	10.50	9.57	1.010	125.12%	0.001	0.001	-
	Bluetooth(GFSK)	Back Surface	0	0	2402	11.00	10.55	1.302	144.41%	0.273	0.394	-
	Bluetooth(GFSK)	Back Surface	0	39	2441	11.00	10.64	1.302	141.45%	0.296	0.419	314
	Bluetooth(GFSK)	Back Surface	0	78	2480	11.00	10.53	1.302	145.08%	0.282	0.409	-
	Bluetooth(GFSK)	Top Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.071	0.100	-
	Bluetooth(GFSK)	Top Curve Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.096	0.136	-
	Bluetooth(GFSK)	Bottom Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.001	0.001	-
	Bluetooth(GFSK)	Right Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.001	0.001	-
	Bluetooth(GFSK)	Left Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.001	0.001	-
	802.11ac(160M)5.2G	Back Surface	4	50	5250	9.00	8.81	1.017	106.25%	0.119	0.126	315
	802.11ac(160M)5.2G	Top Edge	9	50	5250	9.00	8.81	1.017	106.25%	0.001	0.001	-
	802.11ac(160M)5.2G	Top Curve Edge	9	50	5250	9.00	8.81	1.017	106.25%	0.041	0.044	-
	802.11ac(160M)5.2G	Bottom Edge	0	50	5250	9.00	8.81	1.017	106.25%	0.034	0.036	-
	802.11ac(160M)5.2G	Right Edge	0	50	5250	9.00	8.81	1.017	106.25%	0.036	0.038	-
	802.11ac(160M)5.2G	Left Edge	0	50	5250	9.00	8.81	1.017	106.25%	0.039	0.041	-
	802.11ac(80M)5.3G	Back Surface	4	58	5290	9.00	8.33	1.016	118.55%	0.102	0.121	316
	802.11ac(80M)5.3G	Top Edge	9	58	5290	9.00	8.33	1.016	118.55%	0.030	0.036	-
	802.11ac(80M)5.3G	Top Curve Edge	9	58	5290	9.00	8.33	1.016	118.55%	0.029	0.034	-
	802.11ac(80M)5.3G	Bottom Edge	0	58	5290	9.00	8.33	1.016	118.55%	0.021	0.025	-
	802.11ac(80M)5.3G	Right Edge	0	58	5290	9.00	8.33	1.016	118.55%	0.001	0.001	-
	802.11ac(80M)5.3G	Left Edge	0	58	5290	9.00	8.33	1.016	118.55%	0.001	0.001	-
	802.11ac(80M)5.6G	Back Surface	4	106	5530	9.00	8.15	1.016	123.56%	0.077	0.095	317
	802.11ac(80M)5.6G	Back Surface	4	138	5690	9.00	8.26	1.016	120.47%	0.066	0.080	-
	802.11ac(80M)5.6G	Top Edge	9	138	5690	9.00	8.26	1.016	120.47%	0.045	0.054	-
	802.11ac(80M)5.6G	Top Curve Edge	9	138	5690	9.00	8.26	1.016	120.47%	0.043	0.052	-
	802.11ac(80M)5.6G	Bottom Edge	0	138	5690	9.00	8.26	1.016	120.47%	0.001	0.001	-
	802.11ac(80M)5.6G	Right Edge	0	138	5690	9.00	8.26	1.016	120.47%	0.021	0.025	-
	802.11ac(80M)5.6G	Left Edge	0	138	5690	9.00	8.26	1.016	120.47%	0.031	0.037	-
	802.11ac(160M)5.6G	Back Surface	4	114	5570	9.00	8.47	1.017	114.90%	0.158	0.182	318
	802.11ac(160M)5.6G	Top Edge	9	114	5570	9.00	8.47	1.017	114.90%	0.040	0.046	-
	802.11ac(160M)5.6G	Top Curve Edge	9	114	5570	9.00	8.47	1.017	114.90%	0.039	0.045	-
	802.11ac(160M)5.6G	Bottom Edge	0	114	5570	9.00	8.47	1.017	114.90%	0.030	0.034	-
	802.11ac(160M)5.6G	Right Edge	0	114	5570	9.00	8.47	1.017	114.90%	0.030	0.034	-
	802.11ac(160M)5.6G	Left Edge	0	114	5570	9.00	8.47	1.017	114.90%	0.001	0.001	-
	802.11ac(80M)5.8G	Back Surface	4	155	5775	9.00	8.33	1.016	118.55%	0.128	0.152	319
	802.11ac(80M)5.8G	Top Edge	9	155	5775	9.00	8.33	1.016	118.55%	0.039	0.046	-
	802.11ac(80M)5.8G	Top Curve Edge	9	155	5775	9.00	8.33	1.016	118.55%	0.045	0.053	-
	802.11ac(80M)5.8G	Bottom Edge	0	155	5775	9.00	8.33	1.016	118.55%	0.023	0.027	-
	802.11ac(80M)5.8G	Right Edge	0	155	5775	9.00	8.33	1.016	118.55%	0.024	0.028	-
	802.11ac(80M)5.8G	Left Edge	0	155	5775	9.00	8.33	1.016	118.55%	0.001	0.001	-

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**WLAN Antenna Hotspot (sensor on)**

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page	
										Measured	Reported		
TX1	802.11b	Top Edge	0	6	2437	8.00	7.13	1.010	123.40%	0.064	0.078	-	
	802.11b	Top Curve Edge	0	1	2412	8.00	7.10	1.010	124.26%	0.077	0.096	320	
	802.11b	Top Curve Edge	0	6	2437	8.00	7.13	1.010	123.40%	0.069	0.085	-	
	802.11b	Top Curve Edge	0	11	2462	8.00	7.11	1.010	123.97%	0.065	0.081	-	
	802.11ac(160M)5.2G	Top Edge	0	50	5250	7.00	6.93	1.017	103.35%	0.120	0.124	321	
	802.11ac(160M)5.2G	Top Curve Edge	0	50	5250	7.00	6.93	1.017	103.35%	0.112	0.116	-	
	802.11ac(80M)5.3G	Top Edge	0	58	5290	7.00	6.56	1.016	112.43%	0.131	0.147	322	
	802.11ac(80M)5.3G	Top Curve Edge	0	58	5290	7.00	6.56	1.016	112.43%	0.117	0.132	-	
	802.11ac(80M)5.6G	Top Edge	0	106	5530	7.00	6.01	1.016	127.61%	0.127	0.162	323	
	802.11ac(80M)5.6G	Top Edge	0	138	5690	7.00	6.14	1.016	123.85%	0.106	0.131	-	
	802.11ac(80M)5.6G	Top Curve Edge	0	106	5530	7.00	6.01	1.016	127.61%	0.106	0.135	-	
	802.11ac(80M)5.6G	Top Curve Edge	0	138	5690	7.00	6.14	1.016	123.85%	0.084	0.104	-	
	802.11ac(160M)5.6G	Top Edge	0	114	5570	7.00	6.51	1.017	113.85%	0.151	0.172	324	
	802.11ac(160M)5.6G	Top Curve Edge	0	114	5570	7.00	6.51	1.017	113.85%	0.129	0.147	-	
	802.11ac(80M)5.8G	Top Edge	0	155	5775	7.00	6.38	1.016	117.19%	0.087	0.102	325	
	802.11ac(80M)5.8G	Top Curve Edge	0	155	5775	7.00	6.38	1.016	117.19%	0.064	0.075	-	
	TX2	802.11b	Back Surface	0	1	2412	8.00	6.67	1.010	137.19%	0.201	0.276	326
		802.11b	Back Surface	0	6	2437	8.00	6.94	1.010	128.92%	0.191	0.246	-
802.11b		Back Surface	0	11	2462	8.00	7.02	1.010	126.57%	0.193	0.244	-	
802.11b		Top Edge	0	11	2462	8.00	7.02	1.010	126.57%	0.041	0.052	-	
802.11b		Top Curve Edge	0	11	2462	8.00	7.02	1.010	126.57%	0.040	0.051	-	
802.11ac(160M)5.2G		Back Surface	0	50	5250	7.00	6.81	1.017	106.25%	0.104	0.110	327	
802.11ac(160M)5.2G		Top Edge	0	50	5250	7.00	6.81	1.017	106.25%	0.096	0.102	-	
802.11ac(160M)5.2G		Top Curve Edge	0	50	5250	7.00	6.81	1.017	106.25%	0.095	0.101	-	
802.11ac(80M)5.3G		Back Surface	0	58	5290	7.00	6.54	1.016	112.95%	0.094	0.107	328	
802.11ac(80M)5.3G		Top Edge	0	58	5290	7.00	6.54	1.016	112.95%	0.081	0.091	-	
802.11ac(80M)5.3G		Top Curve Edge	0	58	5290	7.00	6.54	1.016	112.95%	0.084	0.095	-	
802.11ac(80M)5.6G		Back Surface	0	106	5530	7.00	6.29	1.016	119.64%	0.111	0.133	329	
802.11ac(80M)5.6G		Back Surface	0	138	5690	7.00	6.44	1.016	115.58%	0.083	0.095	-	
802.11ac(80M)5.6G		Top Edge	0	138	5690	7.00	6.44	1.016	115.58%	0.079	0.091	-	
802.11ac(80M)5.6G		Top Curve Edge	0	138	5690	7.00	6.44	1.016	115.58%	0.103	0.119	-	
802.11ac(160M)5.6G		Back Surface	0	114	5570	7.00	6.60	1.017	111.51%	0.124	0.138	330	
802.11ac(160M)5.6G		Top Edge	0	114	5570	7.00	6.60	1.017	111.51%	0.081	0.090	-	
802.11ac(160M)5.6G		Top Curve Edge	0	114	5570	7.00	6.60	1.017	111.51%	0.097	0.108	-	
802.11ac(80M)5.8G		Back Surface	0	155	5775	7.00	6.47	1.016	114.79%	0.082	0.094	331	
802.11ac(80M)5.8G		Top Edge	0	155	5775	7.00	6.47	1.016	114.79%	0.064	0.073	-	
802.11ac(80M)5.8G		Top Curve Edge	0	155	5775	7.00	6.47	1.016	114.79%	0.075	0.086	-	

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**WLAN Antenna WLAN only (sensor off)**

**TX1**

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
TX1	802.11b	Back Surface	0	1	2412	16.50	15.49	1.010	127.44%	0.732	0.933	-
	802.11b	Back Surface	0	6	2437	16.50	15.52	1.010	126.57%	0.713	0.902	-
	802.11b	Back Surface	0	11	2462	16.50	15.54	1.010	125.99%	0.792	0.998	332
	802.11b	Top Edge	4	11	2462	16.50	15.54	1.010	125.99%	0.169	0.213	-
	802.11b	Top Curve Edge	4	11	2462	16.50	15.54	1.010	125.99%	0.313	0.394	-
	802.11b	Bottom Edge	0	11	2462	16.50	15.54	1.010	125.99%	0.001	0.001	-
	802.11b	Right Edge	0	11	2462	16.50	15.54	1.010	125.99%	0.001	0.001	-
	802.11b	Left Edge	0	11	2462	16.50	15.54	1.010	125.99%	0.069	0.087	-
	802.11n(40M)5.2G	Back Surface	0	46	5230	17.50	16.52	1.015	127.19%	0.551	0.701	333
	802.11n(40M)5.2G	Top Edge	4	46	5230	17.50	16.52	1.015	127.19%	0.418	0.532	-
	802.11n(40M)5.2G	Top Curve Edge	4	46	5230	17.50	16.52	1.015	127.19%	0.424	0.539	-
	802.11n(40M)5.2G	Bottom Edge	0	46	5230	17.50	16.52	1.015	127.19%	0.001	0.001	-
	802.11n(40M)5.2G	Right Edge	0	46	5230	17.50	16.52	1.015	127.19%	0.001	0.001	-
	802.11n(40M)5.2G	Left Edge	0	46	5230	17.50	16.52	1.015	127.19%	0.039	0.050	-
	802.11n(40M)5.3G	Back Surface	0	54	5270	17.50	16.57	1.015	125.74%	0.701	0.881	-
	802.11n(40M)5.3G	Back Surface	0	62	5310	17.50	16.49	1.015	128.08%	0.715	0.916	334
	802.11n(40M)5.3G	Top Edge	4	54	5270	17.50	16.57	1.015	125.74%	0.619	0.778	-
	802.11n(40M)5.3G	Top Curve Edge	4	54	5270	17.50	16.57	1.015	125.74%	0.492	0.619	-
	802.11n(40M)5.3G	Bottom Edge	0	54	5270	17.50	16.57	1.015	125.74%	0.001	0.001	-
	802.11n(40M)5.3G	Right Edge	0	54	5270	17.50	16.57	1.015	125.74%	0.001	0.001	-
	802.11n(40M)5.3G	Left Edge	0	54	5270	17.50	16.57	1.015	125.74%	0.050	0.063	-
	802.11ac(80M)5.6G	Back Surface	0	106	5630	17.50	16.24	1.016	135.80%	0.512	0.695	335
	802.11ac(80M)5.6G	Back Surface	0	138	5690	17.50	16.47	1.016	128.79%	0.454	0.585	-
	802.11ac(80M)5.6G	Top Edge	4	138	5690	17.50	16.47	1.016	128.79%	0.418	0.538	-
	802.11ac(80M)5.6G	Top Curve Edge	4	138	5690	17.50	16.47	1.016	128.79%	0.367	0.473	-
	802.11ac(80M)5.6G	Bottom Edge	0	138	5690	17.50	16.47	1.016	128.79%	0.001	0.001	-
	802.11ac(80M)5.6G	Right Edge	0	138	5690	17.50	16.47	1.016	128.79%	0.001	0.001	-
	802.11ac(80M)5.6G	Left Edge	0	138	5690	17.50	16.47	1.016	128.79%	0.055	0.071	-
	802.11n(40M)5.8G	Back Surface	0	151	5755	16.50	15.42	1.015	130.16%	0.685	0.892	-
	802.11n(40M)5.8G	Back Surface	0	159	5795	16.50	15.44	1.015	129.56%	0.767	0.994	336
	802.11n(40M)5.8G	Top Edge	4	159	5795	16.50	15.44	1.015	129.56%	0.501	0.649	-
	802.11n(40M)5.8G	Top Curve Edge	4	159	5795	16.50	15.44	1.015	129.56%	0.492	0.637	-
	802.11n(40M)5.8G	Bottom Edge	0	159	5795	16.50	15.44	1.015	129.56%	0.001	0.001	-
	802.11n(40M)5.8G	Right Edge	0	159	5795	16.50	15.44	1.015	129.56%	0.001	0.001	-
	802.11n(40M)5.8G	Left Edge	0	159	5795	16.50	15.44	1.015	129.56%	0.063	0.082	-
	802.11ac(80M)5.8G	Back Surface	0	155	5775	16.50	15.57	1.016	125.86%	0.640	0.806	337
	802.11ac(80M)5.8G	Top Edge	4	155	5775	16.50	15.57	1.016	125.86%	0.282	0.355	-
	802.11ac(80M)5.8G	Top Curve Edge	4	155	5775	16.50	15.57	1.016	125.86%	0.265	0.334	-
	802.11ac(80M)5.8G	Bottom Edge	0	155	5775	16.50	15.57	1.016	125.86%	0.001	0.001	-
	802.11ac(80M)5.8G	Right Edge	0	155	5775	16.50	15.57	1.016	125.86%	0.001	0.001	-
	802.11ac(80M)5.8G	Left Edge	0	155	5775	16.50	15.57	1.016	125.86%	0.051	0.064	-

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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**TX2**

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
TX2	802.11b	Back Surface	4	1	2412	19.00	17.52	1.010	142.01%	0.810	1.150	338
	802.11b	Back Surface	4	6	2437	19.00	17.78	1.010	133.76%	0.807	1.079	-
	802.11b	Back Surface	4	10	2457	19.00	17.96	1.010	128.33%	0.808	1.037	-
	802.11b	Back Surface*	4	1	2412	19.00	17.52	1.010	142.01%	0.799	1.135	-
	802.11b	Top Edge	9	10	2457	19.00	17.96	1.010	128.33%	0.080	0.103	-
	802.11b	Top Curve Edge	9	10	2457	19.00	17.96	1.010	128.33%	0.101	0.130	-
	802.11b	Bottom Edge	0	10	2457	19.00	17.96	1.010	128.33%	0.001	0.001	-
	802.11b	Right Edge	0	10	2457	19.00	17.96	1.010	128.33%	0.079	0.101	-
	802.11b	Left Edge	0	10	2457	19.00	17.96	1.010	128.33%	0.001	0.001	-
	Bluetooth(GFSK)	Back Surface	0	0	2402	11.00	10.55	1.302	144.41%	0.273	0.394	-
	Bluetooth(GFSK)	Back Surface	0	39	2441	11.00	10.64	1.302	141.45%	0.296	0.419	339
	Bluetooth(GFSK)	Back Surface*	0	78	2480	11.00	10.53	1.302	145.08%	0.282	0.409	-
	Bluetooth(GFSK)	Top Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.071	0.100	-
	Bluetooth(GFSK)	Top Curve Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.096	0.136	-
	Bluetooth(GFSK)	Bottom Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.001	0.001	-
	Bluetooth(GFSK)	Right Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.001	0.001	-
	Bluetooth(GFSK)	Left Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.001	0.001	-
	802.11a 5.2G	Back Surface	4	36	5180	19.00	17.72	1.052	141.26%	0.791	1.117	-
	802.11a 5.2G	Back Surface	4	40	5200	19.00	18.01	1.052	132.13%	0.842	1.113	340
	802.11a 5.2G	Back Surface	4	44	5220	19.00	18.02	1.052	131.83%	0.700	0.923	-
	802.11a 5.2G	Back Surface*	4	48	5240	19.00	17.74	1.052	140.61%	0.708	0.996	-
	802.11a 5.2G	Back Surface*	4	40	5200	19.00	18.01	1.050	131.88%	0.838	1.105	-
	802.11a 5.2G	Top Edge	9	44	5220	19.00	18.02	1.052	131.83%	0.255	0.336	-
	802.11a 5.2G	Top Curve Edge	9	44	5220	19.00	18.02	1.052	131.83%	0.296	0.390	-
	802.11a 5.2G	Bottom Edge	0	44	5220	19.00	18.02	1.052	131.83%	0.001	0.001	-
	802.11a 5.2G	Right Edge	0	44	5220	19.00	18.02	1.052	131.83%	0.046	0.061	-
	802.11a 5.2G	Left Edge	0	44	5220	19.00	18.02	1.052	131.83%	0.001	0.001	-
	802.11n(40M)5.2G	Back Surface	4	46	5230	19.00	17.94	1.015	129.56%	0.885	1.147	341
	802.11n(40M)5.2G	Back Surface*	4	46	5230	19.00	17.94	1.020	130.20%	0.862	1.122	-
	802.11n(40M)5.2G	Top Edge	9	46	5230	19.00	17.94	1.015	129.56%	0.266	0.345	-
	802.11n(40M)5.2G	Top Curve Edge	9	46	5230	19.00	17.94	1.015	129.56%	0.308	0.399	-
	802.11n(40M)5.2G	Bottom Edge	0	46	5230	19.00	17.94	1.015	129.56%	0.001	0.001	-
	802.11n(40M)5.2G	Right Edge	0	46	5230	19.00	17.94	1.015	129.56%	0.109	0.141	-
	802.11n(40M)5.2G	Left Edge	0	46	5230	19.00	17.94	1.015	129.56%	0.001	0.001	-
	802.11a 5.3G	Back Surface	4	52	5260	19.00	17.68	1.052	142.57%	0.707	1.008	-
	802.11a 5.3G	Back Surface	4	56	5280	19.00	17.62	1.052	144.55%	0.814	1.177	-
	802.11a 5.3G	Back Surface	4	60	5300	19.00	17.65	1.052	143.55%	0.821	1.179	342
	802.11a 5.3G	Back Surface*	4	60	5300	19.00	17.65	1.050	143.28%	0.811	1.162	-
	802.11a 5.3G	Top Edge	9	52	5260	19.00	17.68	1.052	142.57%	0.240	0.342	-
	802.11a 5.3G	Top Curve Edge	9	52	5260	19.00	17.68	1.052	142.57%	0.316	0.451	-
	802.11a 5.3G	Bottom Edge	0	52	5260	19.00	17.68	1.052	142.57%	0.001	0.001	-
	802.11a 5.3G	Right Edge	0	52	5260	19.00	17.68	1.052	142.57%	0.087	0.124	-
	802.11a 5.3G	Left Edge	0	52	5260	19.00	17.68	1.052	142.57%	0.001	0.001	-
	802.11n(40M)5.3G	Back Surface	4	54	5270	19.00	17.95	1.015	129.26%	0.875	1.131	343
	802.11n(40M)5.3G	Back Surface*	4	54	5270	19.00	17.95	1.020	129.90%	0.866	1.125	-
	802.11n(40M)5.3G	Top Edge	9	54	5270	19.00	17.95	1.015	129.26%	0.255	0.330	-
	802.11n(40M)5.3G	Top Curve Edge	9	54	5270	19.00	17.95	1.015	129.26%	0.303	0.392	-
	802.11n(40M)5.3G	Bottom Edge	0	54	5270	19.00	17.95	1.015	129.26%	0.001	0.001	-
	802.11n(40M)5.3G	Right Edge	0	54	5270	19.00	17.95	1.015	129.26%	0.108	0.140	-
	802.11n(40M)5.3G	Left Edge	0	54	5270	19.00	17.95	1.015	129.26%	0.001	0.001	-
	802.11n(40M)5.6G	Back Surface	4	110	5550	19.00	17.48	1.015	144.03%	0.801	1.154	-
	802.11n(40M)5.6G	Back Surface	4	118	5590	19.00	17.66	1.015	138.19%	0.771	1.065	-
	802.11n(40M)5.6G	Back Surface*	4	134	5670	19.00	17.74	1.015	135.66%	0.734	0.996	-
	802.11n(40M)5.6G	Back Surface	4	142	5710	19.00	17.78	1.015	134.42%	0.667	0.897	-
	802.11n(40M)5.6G	Back Surface*	4	110	5550	19.00	17.48	1.020	144.74%	0.798	1.155	344
	802.11n(40M)5.6G	Top Edge	9	142	5710	19.00	17.78	1.015	134.42%	0.309	0.415	-
	802.11n(40M)5.6G	Top Curve Edge	9	142	5710	19.00	17.78	1.015	134.42%	0.386	0.519	-
	802.11n(40M)5.6G	Bottom Edge	0	142	5710	19.00	17.78	1.015	134.42%	0.001	0.001	-
	802.11n(40M)5.6G	Right Edge	0	142	5710	19.00	17.78	1.015	134.42%	0.131	0.176	-
	802.11n(40M)5.6G	Left Edge	0	142	5710	19.00	17.78	1.015	134.42%	0.001	0.001	-
	802.11ac(80M)5.6G	Back Surface	4	122	5610	19.00	17.82	1.016	133.32%	0.736	0.981	-
	802.11ac(80M)5.6G	Back Surface	4	138	5690	19.00	18.07	1.016	125.86%	0.857	1.079	345
	802.11ac(80M)5.6G	Back Surface*	4	138	5690	19.00	18.07	1.020	126.36%	0.855	1.080	-
	802.11ac(80M)5.6G	Top Edge	9	138	5690	19.00	18.07	1.016	125.86%	0.319	0.401	-
	802.11ac(80M)5.6G	Top Curve Edge	9	138	5690	19.00	18.07	1.016	125.86%	0.414	0.521	-
	802.11ac(80M)5.6G	Bottom Edge	0	138	5690	19.00	18.07	1.016	125.86%	0.001	0.001	-
	802.11ac(80M)5.6G	Right Edge	0	138	5690	19.00	18.07	1.016	125.86%	0.113	0.142	-
	802.11ac(80M)5.6G	Left Edge	0	138	5690	19.00	18.07	1.016	125.86%	0.001	0.001	-
	802.11n(40M)5.8G	Back Surface	4	151	5755	19.00	17.73	1.015	135.98%	0.850	1.156	346
	802.11n(40M)5.8G	Back Surface	4	159	5795	19.00	17.95	1.015	129.26%	0.861	1.113	-
	802.11n(40M)5.8G	Back Surface*	4	151	5755	19.00	17.73	1.020	136.65%	0.842	1.151	-
	802.11n(40M)5.8G	Top Edge	9	159	5795	19.00	17.95	1.015	129.26%	0.316	0.408	-
	802.11n(40M)5.8G	Top Curve Edge	9	159	5795	19.00	17.95	1.015	129.26%	0.428	0.553	-
	802.11n(40M)5.8G	Bottom Edge	0	159	5795	19.00	17.95	1.015	129.26%	0.001	0.001	-
	802.11n(40M)5.8G	Right Edge	0	159	5795	19.00	17.95	1.015	129.26%	0.116	0.150	-
	802.11n(40M)5.8G	Left Edge	0	159	5795	19.00	17.95	1.015	129.26%	0.001	0.001	-
	802.11ac(80M)5.8G	Back Surface	4	155	5775	19.00	18.05	1.016	126.44%	0.898	1.135	347
	802.11ac(80M)5.8G	Back Surface*	4	155	5775	19.00	18.05	1.020	126.94%	0.888	1.127	-
	802.11ac(80M)5.8G	Top Edge	9	155	5775	19.00	18.05	1.016	126.44%	0.350	0.443	-
	802.11ac(80M)5.8G	Top Curve Edge	9	155	5775	19.00	18.05	1.016	126.44%	0.449	0.568	-
	802.11ac(80M)5.8G	Bottom Edge	0	155	5775	19.00	18.05	1.016	126.44%	0.001	0.001	-
	802.11ac(80M)5.8G	Right Edge	0	155	5775	19.00	18.05	1.016	126.44%	0.150	0.190	-
	802.11ac(80M)5.8G	Left Edge	0	155	5775	19.00	18.05	1.016	126.44%	0.001	0.001	-

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

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**WLAN Antenna WLAN only (sensor on)**

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
TX1	802.11b	Top Edge	0	11	2462	16.50	15.54	1.010	125.99%	0.604	0.761	-
	802.11b	Top Curve Edge	0	1	2412	16.50	15.49	1.010	127.44%	0.654	0.833	348
	802.11b	Top Curve Edge	0	6	2437	16.50	15.52	1.010	126.57%	0.620	0.785	-
	802.11b	Top Curve Edge	0	11	2462	16.50	15.54	1.010	125.99%	0.618	0.779	-
	802.11ac(80M)5.2G	Top Edge	0	42	5210	14.00	13.19	1.016	122.43%	0.588	0.720	349
	802.11ac(80M)5.2G	Top Curve Edge	0	42	5210	14.00	13.19	1.016	122.43%	0.574	0.703	-
	802.11ac(160M)5.2G	Top Edge	0	50	5250	14.00	13.59	1.017	111.77%	0.710	0.794	350
	802.11ac(160M)5.2G	Top Curve Edge	0	50	5250	14.00	13.59	1.017	111.77%	0.650	0.726	-
	802.11n(40M)5.3G	Top Edge	0	54	5270	14.00	13.13	1.015	124.01%	0.686	0.851	-
	802.11n(40M)5.3G	Top Edge	0	62	5310	14.00	13.01	1.015	127.49%	0.705	0.899	351
	802.11n(40M)5.3G	Top Curve Edge	0	54	5270	14.00	13.13	1.015	124.01%	0.637	0.790	-
	802.11ac(80M)5.3G	Top Edge	0	58	5290	14.00	13.28	1.016	119.92%	0.738	0.885	352
	802.11ac(80M)5.3G	Top Curve Edge	0	58	5290	14.00	13.28	1.016	119.92%	0.666	0.799	-
	802.11ac(80M)5.6G	Top Edge	0	106	5530	14.00	12.82	1.016	133.32%	0.767	1.023	353
	802.11ac(80M)5.6G	Top Edge	0	138	5690	14.00	12.96	1.016	129.09%	0.657	0.848	-
	802.11ac(80M)5.6G	Top Curve Edge	0	138	5690	14.00	12.96	1.016	129.09%	0.520	0.671	-
	802.11ac(160M)5.6G	Top Edge	0	114	5570	14.00	13.26	1.017	120.59%	0.870	1.049	354
	802.11ac(160M)5.6G	Top Edge*	0	114	5570	14.00	13.26	1.020	120.95%	0.860	1.040	-
	802.11ac(160M)5.6G	Top Curve Edge	0	114	5570	14.00	13.26	1.017	120.59%	0.737	0.889	-
	802.11ac(80M)5.8G	Top Edge	0	155	5775	14.00	13.09	1.016	125.28%	0.533	0.668	355
802.11ac(80M)5.8G	Top Curve Edge	0	155	5775	14.00	13.09	1.016	125.28%	0.439	0.550	-	
TX2	802.11b	Back Surface	0	1	2412	14.50	13.21	1.010	135.93%	0.810	1.101	-
	802.11b	Back Surface	0	6	2437	14.50	13.37	1.010	131.02%	0.812	1.064	-
	802.11b	Back Surface	0	11	2462	14.50	13.46	1.010	128.33%	0.886	1.137	356
	802.11b	Back Surface*	0	11	2462	14.50	13.46	1.010	128.33%	0.881	1.131	-
	802.11b	Top Edge	0	11	2462	14.50	13.46	1.010	128.33%	0.149	0.191	-
	802.11b	Top Curve Edge	0	11	2462	14.50	13.46	1.010	128.33%	0.246	0.316	-
	Bluetooth(GFSK)	Back Surface	0	0	2402	11.00	10.55	1.302	144.41%	0.273	0.394	-
	Bluetooth(GFSK)	Back Surface	0	39	2441	11.00	10.64	1.302	141.45%	0.296	0.419	357
	Bluetooth(GFSK)	Back Surface	0	78	2480	11.00	10.53	1.302	145.08%	0.282	0.409	-
	Bluetooth(GFSK)	Top Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.071	0.100	-
	Bluetooth(GFSK)	Top Curve Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.096	0.136	-
	Bluetooth(GFSK)	Bottom Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.001	0.001	-
	Bluetooth(GFSK)	Right Edge	0	39	2441	11.00	10.64	1.302	141.45%	0.001	0.001	-
	802.11ac(80M)5.2G	Back Surface	0	42	5210	14.00	13.08	1.016	125.57%	0.662	0.831	358
	802.11ac(80M)5.2G	Top Edge	0	42	5210	14.00	13.08	1.016	125.57%	0.381	0.478	-
	802.11ac(80M)5.2G	Top Curve Edge	0	42	5210	14.00	13.08	1.016	125.57%	0.562	0.706	-
	802.11ac(160M)5.2G	Back Surface	0	50	5250	14.00	13.34	1.017	118.39%	0.755	0.894	359
	802.11ac(160M)5.2G	Top Edge	0	50	5250	14.00	13.34	1.017	118.39%	0.373	0.442	-
	802.11ac(160M)5.2G	Top Curve Edge	0	50	5250	14.00	13.34	1.017	118.39%	0.553	0.655	-
	802.11n(40M)5.3G	Back Surface	0	54	5270	14.00	12.91	1.015	130.46%	0.649	0.847	-
	802.11n(40M)5.3G	Back Surface	0	62	5310	14.00	12.88	1.015	131.36%	0.665	0.874	360
	802.11n(40M)5.3G	Top Edge	0	54	5270	14.00	12.91	1.015	130.46%	0.404	0.527	-
	802.11n(40M)5.3G	Top Curve Edge	0	54	5270	14.00	12.91	1.015	130.46%	0.555	0.724	-
	802.11ac(80M)5.3G	Back Surface	0	58	5290	14.00	13.03	1.016	127.03%	0.683	0.868	361
	802.11ac(80M)5.3G	Top Edge	0	58	5290	14.00	13.03	1.016	127.03%	0.415	0.527	-
	802.11ac(80M)5.3G	Top Curve Edge	0	58	5290	14.00	13.03	1.016	127.03%	0.536	0.681	-
	802.11ac(80M)5.6G	Back Surface	0	106	5530	14.00	12.85	1.016	132.40%	0.867	1.148	362
	802.11ac(80M)5.6G	Back Surface	0	138	5690	14.00	12.94	1.016	129.69%	0.848	1.100	-
	802.11ac(80M)5.6G	Top Edge	0	138	5690	14.00	12.94	1.016	129.69%	0.442	0.573	-
	802.11ac(80M)5.6G	Top Curve Edge	0	138	5690	14.00	12.94	1.016	129.69%	0.530	0.687	-
	802.11ac(160M)5.6G	Back Surface	0	114	5570	14.00	13.04	1.017	126.86%	0.910	1.154	363
	802.11ac(160M)5.6G	Back Surface*	0	114	5570	14.00	13.04	1.020	127.23%	0.906	1.153	-
	802.11ac(160M)5.6G	Top Edge	0	114	5570	14.00	13.04	1.017	126.86%	0.373	0.473	-
	802.11ac(160M)5.6G	Top Curve Edge	0	114	5570	14.00	13.04	1.017	126.86%	0.467	0.592	-
	802.11n(40M)5.8G	Back Surface	0	151	5755	14.00	12.78	1.015	134.42%	0.808	1.086	364
	802.11n(40M)5.8G	Back Surface	0	159	5795	14.00	12.91	1.015	130.46%	0.796	1.038	-
	802.11n(40M)5.8G	Back Surface*	0	151	5755	14.00	12.78	1.020	135.08%	0.802	1.083	-
	802.11n(40M)5.8G	Top Edge	0	159	5795	14.00	12.91	1.015	130.46%	0.404	0.527	-
	802.11n(40M)5.8G	Top Curve Edge	0	159	5795	14.00	12.91	1.015	130.46%	0.431	0.562	-
	802.11ac(80M)5.8G	Back Surface	0	155	5775	14.00	13.03	1.016	127.03%	0.842	1.070	365
	802.11ac(80M)5.8G	Back Surface*	0	155	5775	14.00	13.03	1.020	127.53%	0.832	1.061	-
	802.11ac(80M)5.8G	Top Edge	0	155	5775	14.00	13.03	1.016	127.03%	0.414	0.526	-
802.11ac(80M)5.8G	Top Curve Edge	0	155	5775	14.00	13.03	1.016	127.03%	0.422	0.536	-	

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

Note:

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

Reported SAR = measured SAR \* (scaling)

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

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### 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	Body
1	WWAN+WLAN 2.4G TX1+WLAN 2.4G TX2	YES	Hotspot
2	WWAN+WLAN 5G TX1+WLAN 5G TX2	YES	Hotspot
3	WWAN+WLAN 2.4G TX1+BT TX2	YES	Hotspot
4	WWAN+WLAN 5G TX1+BT TX2	YES	Hotspot
5	WWAN+WLAN 5G TX1+WLAN 5G TX2+BT TX2	YES	Hotspot
6	WLAN 2.4G TX1+BT TX2	YES	WLAN only
7	WLAN 2.4G TX1+WLAN 2.4G TX2	YES	WLAN only
8	WLAN 5G TX1+BT TX2	YES	WLAN only
9	WLAN 5G TX1+WLAN 5G TX2	YES	WLAN only
10	WLAN 5G TX1+WLAN 5G TX2+BT TX2	YES	WLAN only

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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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The simultaneous Transmission conditions (Tablet mode)

Band	Exposure position 1g(W/kg)	1	2	3	4	5	6	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	SPLSR
		WWAN	WLAN 2.4GHz TX 1	WLAN 2.4GHz TX 2	WLAN 5GHz TX 1	WLAN 5GHz TX 2	BT TX2	1+2+3	1+4+5	1+2+6	1+4+6	1+4+5+6	
WCDMA Band II	Back Surface	0.739	0.271	0.301	0.239	0.182	0.419	1.311	1.160	1.429	1.397	1.579	ESAR<1.6,Not required
WCDMA Band II	Top Edge	1.013	0.127	0.052	0.172	0.102	0.100	1.192	1.287	1.240	1.285	1.387	ESAR<1.6,Not required
WCDMA Band II	Top Curve Edge	0.457	0.104	0.051	0.147	0.119	0.136	0.612	0.723	0.697	0.740	0.859	ESAR<1.6,Not required
WCDMA Band II	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.105	0.070	0.106	ESAR<1.6,Not required
WCDMA Band II	Left Edge	0.277	0.012	0.001	0.109	0.041	0.001	0.290	0.427	0.290	0.387	0.428	ESAR<1.6,Not required
WCDMA Band II	Right Edge	0.067	0.021	0.001	0.044	0.038	0.001	0.089	0.149	0.089	0.112	0.150	ESAR<1.6,Not required
WCDMA Band V	Back Surface	0.445	0.271	0.301	0.239	0.182	0.419	1.017	0.866	1.135	1.103	1.285	ESAR<1.6,Not required
WCDMA Band V	Top Edge	0.852	0.127	0.052	0.172	0.102	0.100	1.031	1.126	1.079	1.124	1.226	ESAR<1.6,Not required
WCDMA Band V	Top Curve Edge	0.712	0.104	0.051	0.147	0.119	0.136	0.867	0.978	0.952	0.995	1.114	ESAR<1.6,Not required
WCDMA Band V	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ESAR<1.6,Not required
WCDMA Band V	Left Edge	0.364	0.012	0.001	0.109	0.041	0.001	0.377	0.514	0.377	0.474	0.515	ESAR<1.6,Not required
WCDMA Band V	Right Edge	0.088	0.021	0.001	0.044	0.038	0.001	0.110	0.170	0.110	0.133	0.171	ESAR<1.6,Not required
LTE Band 2	Back Surface	0.732	0.271	0.301	0.239	0.182	0.419	1.304	1.153	1.422	1.390	1.572	ESAR<1.6,Not required
LTE Band 2	Top Edge	0.409	0.127	0.052	0.172	0.102	0.100	0.588	0.683	0.636	0.681	0.783	ESAR<1.6,Not required
LTE Band 2	Top Curve Edge	0.402	0.104	0.051	0.147	0.119	0.136	0.557	0.668	0.642	0.685	0.804	ESAR<1.6,Not required
LTE Band 2	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ESAR<1.6,Not required
LTE Band 2	Left Edge	0.217	0.012	0.001	0.109	0.041	0.001	0.230	0.367	0.230	0.327	0.368	ESAR<1.6,Not required
LTE Band 2	Right Edge	0.260	0.021	0.001	0.044	0.038	0.001	0.282	0.342	0.282	0.305	0.343	ESAR<1.6,Not required
LTE Band 4	Back Surface	0.692	0.271	0.301	0.239	0.182	0.419	1.264	1.113	1.382	1.350	1.532	ESAR<1.6,Not required
LTE Band 4	Top Edge	0.946	0.127	0.052	0.172	0.102	0.100	1.125	1.220	1.173	1.218	1.320	ESAR<1.6,Not required
LTE Band 4	Top Curve Edge	0.633	0.104	0.051	0.147	0.119	0.136	0.788	0.899	0.873	0.916	1.035	ESAR<1.6,Not required
LTE Band 4	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ESAR<1.6,Not required
LTE Band 4	Left Edge	0.112	0.012	0.001	0.109	0.041	0.001	0.125	0.262	0.125	0.222	0.263	ESAR<1.6,Not required
LTE Band 4	Right Edge	0.146	0.021	0.001	0.044	0.038	0.001	0.168	0.228	0.168	0.191	0.229	ESAR<1.6,Not required
LTE Band 5	Back Surface	0.531	0.271	0.301	0.239	0.182	0.419	1.103	0.952	1.221	1.189	1.371	ESAR<1.6,Not required
LTE Band 5	Top Edge	0.387	0.127	0.052	0.172	0.102	0.100	0.566	0.661	0.614	0.659	0.761	ESAR<1.6,Not required
LTE Band 5	Top Curve Edge	0.372	0.104	0.051	0.147	0.119	0.136	0.527	0.638	0.612	0.655	0.774	ESAR<1.6,Not required
LTE Band 5	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ESAR<1.6,Not required
LTE Band 5	Left Edge	0.071	0.012	0.001	0.109	0.041	0.001	0.084	0.221	0.084	0.181	0.222	ESAR<1.6,Not required
LTE Band 5	Right Edge	0.111	0.021	0.001	0.044	0.038	0.001	0.133	0.193	0.133	0.156	0.194	ESAR<1.6,Not required
LTE Band 7	Back Surface	0.723	0.271	0.301	0.239	0.182	0.419	1.295	1.144	1.413	1.381	1.563	ESAR<1.6,Not required
LTE Band 7	Top Edge	0.647	0.127	0.052	0.172	0.102	0.100	0.826	0.921	0.874	0.919	1.021	ESAR<1.6,Not required
LTE Band 7	Top Curve Edge	0.712	0.104	0.051	0.147	0.119	0.136	0.867	0.978	0.952	0.995	1.114	ESAR<1.6,Not required
LTE Band 7	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ESAR<1.6,Not required
LTE Band 7	Left Edge	0.951	0.012	0.001	0.109	0.041	0.001	0.964	1.101	0.964	1.061	1.102	ESAR<1.6,Not required
LTE Band 7	Right Edge	0.519	0.021	0.001	0.044	0.038	0.001	0.541	0.601	0.541	0.564	0.602	ESAR<1.6,Not required
LTE Band 12	Back Surface	0.723	0.271	0.301	0.239	0.182	0.419	1.295	1.144	1.413	1.381	1.563	ESAR<1.6,Not required
LTE Band 12	Top Edge	0.614	0.127	0.052	0.172	0.102	0.100	0.793	0.888	0.841	0.886	0.988	ESAR<1.6,Not required
LTE Band 12	Top Curve Edge	0.616	0.104	0.051	0.147	0.119	0.136	0.771	0.882	0.856	0.899	1.018	ESAR<1.6,Not required
LTE Band 12	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ESAR<1.6,Not required
LTE Band 12	Left Edge	0.065	0.012	0.001	0.109	0.041	0.001	0.078	0.215	0.078	0.175	0.216	ESAR<1.6,Not required
LTE Band 12	Right Edge	0.045	0.021	0.001	0.044	0.038	0.001	0.067	0.127	0.067	0.090	0.128	ESAR<1.6,Not required
LTE Band 13	Back Surface	0.591	0.271	0.301	0.239	0.182	0.419	1.163	1.012	1.281	1.249	1.431	ESAR<1.6,Not required
LTE Band 13	Top Edge	0.289	0.127	0.052	0.172	0.102	0.100	0.468	0.563	0.516	0.561	0.663	ESAR<1.6,Not required
LTE Band 13	Top Curve Edge	0.276	0.104	0.051	0.147	0.119	0.136	0.431	0.542	0.516	0.559	0.678	ESAR<1.6,Not required
LTE Band 13	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ESAR<1.6,Not required
LTE Band 13	Left Edge	0.053	0.012	0.001	0.109	0.041	0.001	0.066	0.203	0.066	0.163	0.204	ESAR<1.6,Not required
LTE Band 13	Right Edge	0.001	0.021	0.001	0.044	0.038	0.001	0.023	0.083	0.023	0.046	0.084	ESAR<1.6,Not required
LTE Band 14	Back Surface	0.505	0.271	0.301	0.239	0.182	0.419	1.077	0.926	1.195	1.163	1.345	ESAR<1.6,Not required
LTE Band 14	Top Edge	0.348	0.127	0.052	0.172	0.102	0.100	0.527	0.622	0.575	0.620	0.722	ESAR<1.6,Not required
LTE Band 14	Top Curve Edge	0.361	0.104	0.051	0.147	0.119	0.136	0.516	0.627	0.601	0.644	0.763	ESAR<1.6,Not required
LTE Band 14	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ESAR<1.6,Not required
LTE Band 14	Left Edge	0.052	0.012	0.001	0.109	0.041	0.001	0.065	0.202	0.065	0.162	0.203	ESAR<1.6,Not required
LTE Band 14	Right Edge	0.001	0.021	0.001	0.044	0.038	0.001	0.023	0.083	0.023	0.046	0.084	ESAR<1.6,Not required

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Band	Exposure position 1g(W/kg)	1	2	3	4	5	6	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	SPLSR
		WWAN	WLAN 2.4GHz TX 1	WLAN 2.4GHz TX 2	WLAN 5GHz TX 1	WLAN 5GHz TX 2	BT TX2	1+2+3	1+4+5	1+2+6	1+4+6	1+4+5+6	
LTE Band 25	Back Surface	0.733	0.271	0.301	0.239	0.182	0.419	1.305	1.154	1.423	1.391	1.573	ΣSAR<1.6,Not required
LTE Band 25	Top Edge	0.901	0.127	0.052	0.172	0.102	0.100	1.080	1.175	1.128	1.173	1.275	ΣSAR<1.6,Not required
LTE Band 25	Top Curve Edge	0.624	0.104	0.051	0.147	0.119	0.136	0.779	0.890	0.864	0.907	1.026	ΣSAR<1.6,Not required
LTE Band 25	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ΣSAR<1.6,Not required
LTE Band 25	Left Edge	0.198	0.012	0.001	0.109	0.041	0.001	0.211	0.348	0.211	0.308	0.349	ΣSAR<1.6,Not required
LTE Band 25	Right Edge	0.118	0.021	0.001	0.044	0.038	0.001	0.140	0.200	0.140	0.163	0.201	ΣSAR<1.6,Not required
LTE Band 26	Back Surface	0.508	0.271	0.301	0.239	0.182	0.419	1.080	0.929	1.198	1.166	1.348	ΣSAR<1.6,Not required
LTE Band 26	Top Edge	0.389	0.127	0.052	0.172	0.102	0.100	0.568	0.663	0.616	0.661	0.763	ΣSAR<1.6,Not required
LTE Band 26	Top Curve Edge	0.387	0.104	0.051	0.147	0.119	0.136	0.542	0.653	0.627	0.670	0.789	ΣSAR<1.6,Not required
LTE Band 26	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ΣSAR<1.6,Not required
LTE Band 26	Left Edge	0.073	0.012	0.001	0.109	0.041	0.001	0.086	0.223	0.086	0.183	0.224	ΣSAR<1.6,Not required
LTE Band 26	Right Edge	0.119	0.021	0.001	0.044	0.038	0.001	0.141	0.201	0.141	0.164	0.202	ΣSAR<1.6,Not required
LTE Band 30	Back Surface	0.671	0.271	0.301	0.239	0.182	0.419	1.243	1.092	1.361	1.329	1.511	ΣSAR<1.6,Not required
LTE Band 30	Top Edge	0.527	0.127	0.052	0.172	0.102	0.100	0.706	0.801	0.754	0.799	0.901	ΣSAR<1.6,Not required
LTE Band 30	Top Curve Edge	0.533	0.104	0.051	0.147	0.119	0.136	0.688	0.799	0.773	0.816	0.935	ΣSAR<1.6,Not required
LTE Band 30	Bottom Edge	0.001	0.030	0.001	0.068	0.036	0.001	0.032	0.105	0.032	0.070	0.106	ΣSAR<1.6,Not required
LTE Band 30	Left Edge	0.241	0.012	0.001	0.109	0.041	0.001	0.254	0.391	0.254	0.351	0.392	ΣSAR<1.6,Not required
LTE Band 30	Right Edge	0.003	0.021	0.001	0.044	0.038	0.001	0.025	0.085	0.025	0.048	0.086	ΣSAR<1.6,Not required
LTE Band 38	Back Surface	0.681	0.271	0.301	0.239	0.182	0.419	1.253	1.102	1.371	1.339	1.521	ΣSAR<1.6,Not required
LTE Band 38	Top Edge	0.466	0.127	0.052	0.172	0.102	0.100	0.645	0.740	0.693	0.738	0.840	ΣSAR<1.6,Not required
LTE Band 38	Top Curve Edge	0.449	0.104	0.051	0.147	0.119	0.136	0.604	0.715	0.689	0.732	0.851	ΣSAR<1.6,Not required
LTE Band 38	Bottom Edge	0.067	0.030	0.001	0.068	0.036	0.001	0.098	0.171	0.098	0.136	0.172	ΣSAR<1.6,Not required
LTE Band 38	Left Edge	0.349	0.012	0.001	0.109	0.041	0.001	0.362	0.499	0.362	0.459	0.500	ΣSAR<1.6,Not required
LTE Band 38	Right Edge	0.001	0.021	0.001	0.044	0.038	0.001	0.023	0.083	0.023	0.046	0.084	ΣSAR<1.6,Not required
LTE Band 41	Back Surface	0.608	0.271	0.301	0.239	0.182	0.419	1.180	1.029	1.298	1.266	1.448	ΣSAR<1.6,Not required
LTE Band 41	Top Edge	0.177	0.127	0.052	0.172	0.102	0.100	0.356	0.451	0.404	0.449	0.551	ΣSAR<1.6,Not required
LTE Band 41	Top Curve Edge	0.209	0.104	0.051	0.147	0.119	0.136	0.364	0.475	0.449	0.492	0.611	ΣSAR<1.6,Not required
LTE Band 41	Bottom Edge	0.066	0.030	0.001	0.068	0.036	0.001	0.097	0.170	0.097	0.135	0.171	ΣSAR<1.6,Not required
LTE Band 41	Left Edge	0.584	0.012	0.001	0.109	0.041	0.001	0.597	0.734	0.597	0.694	0.735	ΣSAR<1.6,Not required
LTE Band 41	Right Edge	0.001	0.021	0.001	0.044	0.038	0.001	0.023	0.083	0.023	0.046	0.084	ΣSAR<1.6,Not required
LTE Band 66	Back Surface	0.725	0.271	0.301	0.239	0.182	0.419	1.297	1.146	1.415	1.383	1.565	ΣSAR<1.6,Not required
LTE Band 66	Top Edge	0.866	0.127	0.052	0.172	0.102	0.100	1.045	1.140	1.093	1.138	1.240	ΣSAR<1.6,Not required
LTE Band 66	Top Curve Edge	0.672	0.104	0.051	0.147	0.119	0.136	0.827	0.938	0.912	0.955	1.074	ΣSAR<1.6,Not required
LTE Band 66	Bottom Edge	0.000	0.030	0.001	0.068	0.036	0.001	0.031	0.104	0.031	0.069	0.105	ΣSAR<1.6,Not required
LTE Band 66	Left Edge	0.045	0.012	0.001	0.109	0.041	0.001	0.058	0.195	0.058	0.155	0.196	ΣSAR<1.6,Not required
LTE Band 66	Right Edge	0.001	0.021	0.001	0.044	0.038	0.001	0.023	0.083	0.023	0.046	0.084	ΣSAR<1.6,Not required

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The simultaneous Transmission conditions (Tablet mode)

Exposure position 1g(W/kg)	1	2	3	4	5	Scenario 6	Scenario 7	Scenario 8	Scenario 9	Scenario 10	SPLSR
	WLAN 2.4GHz TX 1	WLAN 2.4GHz TX 2	WLAN 5GHz TX 1	WLAN 5GHz TX 2	BT TX2	1+5	1+2	3+5	3+4	3+4+5	
Back Surface	0.998	1.150	1.152	1.179	0.419	1.417	2.148	1.571	2.331	2.750	Analyzed as below
Top Edge	0.761	0.191	1.049	0.573	0.100	0.861	0.952	1.149	1.622	1.722	Analyzed as below
Top Curve Edge	0.833	0.316	0.889	0.724	0.136	0.969	1.149	1.025	1.613	1.749	Analyzed as below
Bottom Edge	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	ΣSAR<1.6,Not required
Left Edge	0.087	0.001	0.082	0.001	0.001	0.088	0.088	0.083	0.083	0.084	ΣSAR<1.6,Not required
Right Edge	0.001	0.101	0.001	0.190	0.001	0.002	0.102	0.002	0.191	0.192	ΣSAR<1.6,Not required

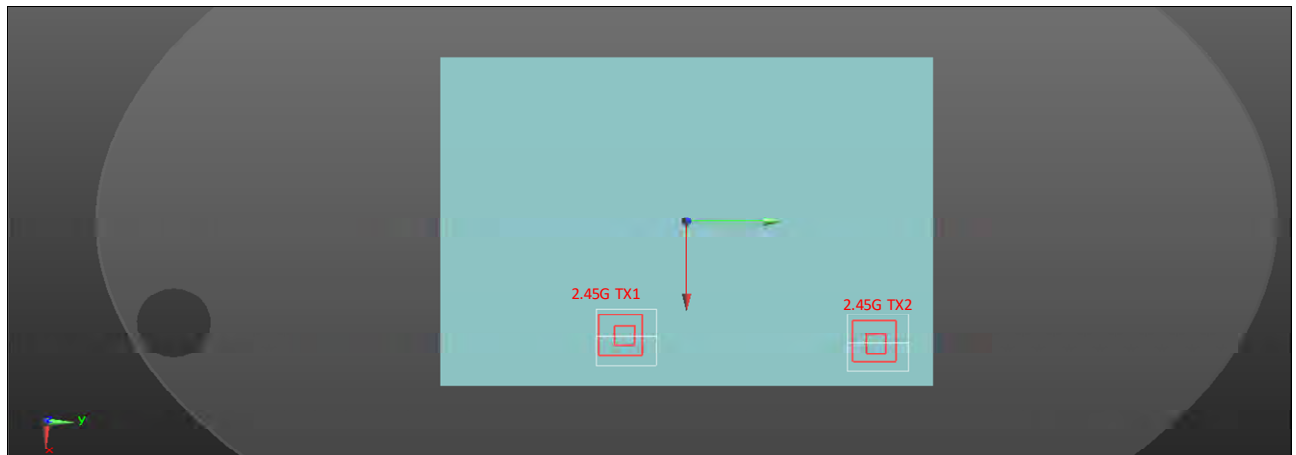
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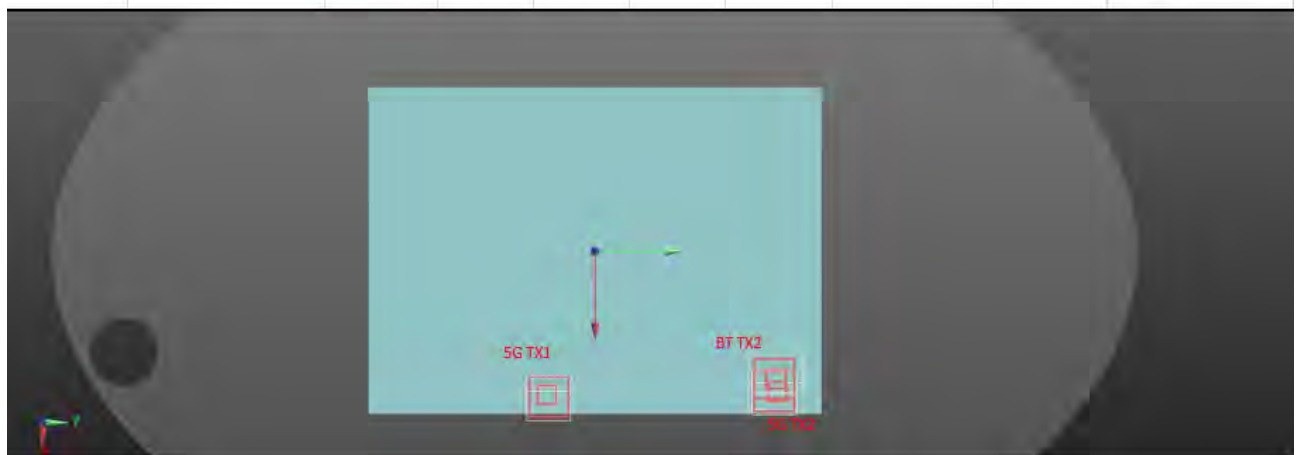
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Scenario 7									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	2.4GHz WLAN TX 1	0.998	61.64	-28.02	5.55	-	-	-	-
	2.4GHz WLAN TX 2	1.150	66.62	93.97	5.24	2.148	122.09	0.026	SPLSR ≤ 0.04, Not required



Scenario 10									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous SAR Test
			x	y	z				
Back Surface	5GHz WLAN TX 1	1.152	64.43	-27.01	5.12	-	-	-	-
	5GHz WLAN TX 2+BT TX2	1.598	66.82	101.00	5.20	2.750	128.03	0.036	SPLSR ≤ 0.04, Not required



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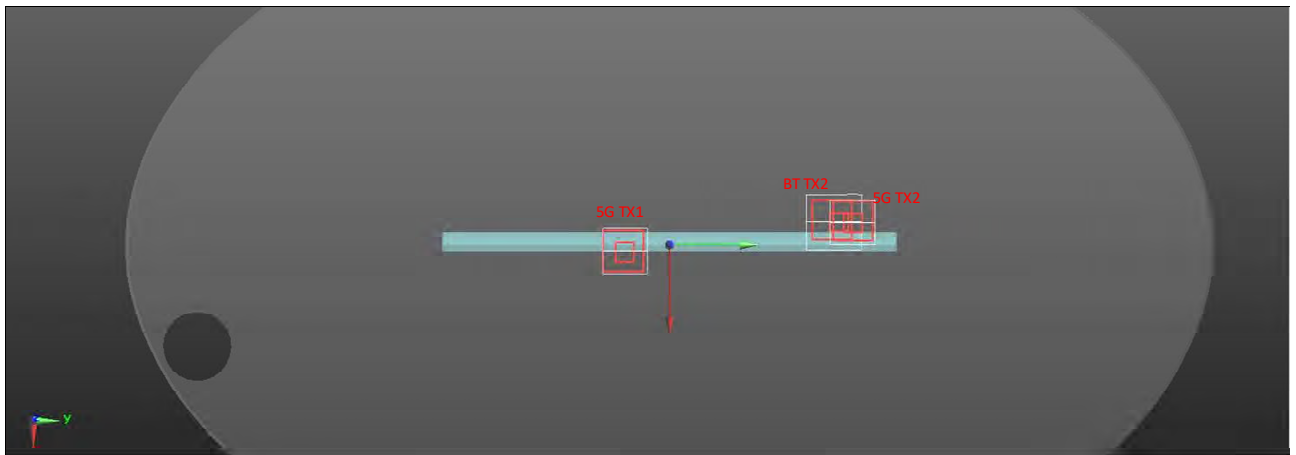
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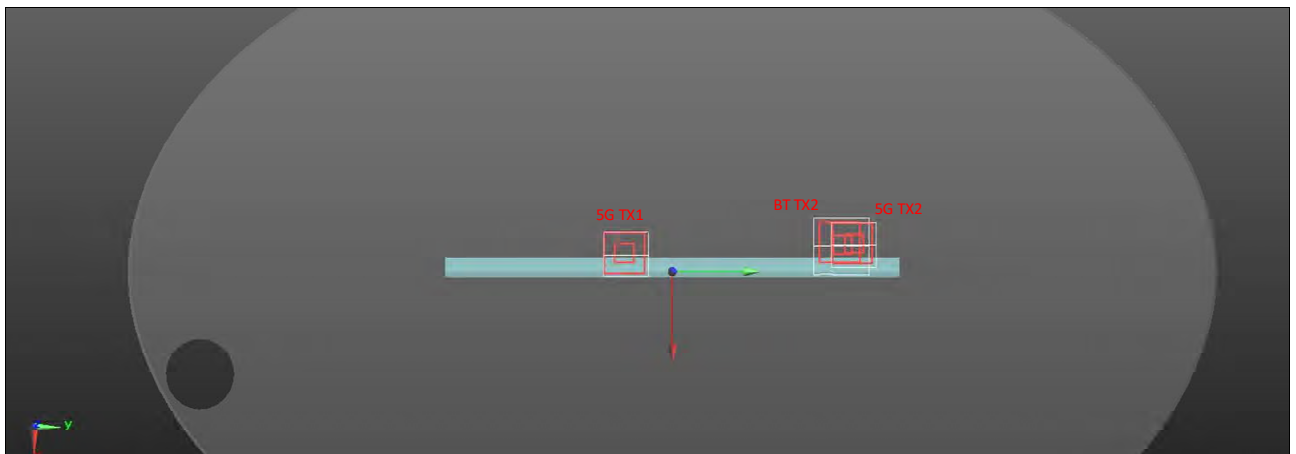
SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



Scenario 10									
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 Edge	5GHz WLAN TX 1	1.049	2.83	-22.22	4.62	-	-	-	-
	5GHz WLAN TX 2+BT TX2	0.673	-2.80	71.10	-5.40	1.722	119.40	0.019	SPLSR ≤ 0.04, Not required



Scenario 10									
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 Curve Edge	5GHz WLAN TX 1	0.889	0.80	-27.80	-5.54	-	-	-	-
	5GHz WLAN TX 2+BT TX2	0.860	-7.80	95.20	-4.82	1.749	142.31	0.016	SPLSR ≤ 0.04, Not required



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**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	7509	Apr.26,2021	Apr.25,2022
SPEAG	System Validation Dipole	D750V3	1078	Jun.21,2021	Jun.20,2022
		D835V2	4d166	Apr.13,2021	Apr.12,2022
		D1750V2	1111	Apr.14,2021	Apr.13,2022
		D1900V2	5d173	Apr.15,2021	Apr.14,2022
		D2300V2	1092	Dec.16,2020	Dec.15,2021
		D2450V2	727	Apr.14,2021	Apr.13,2022
		D2600V2	1005	Jan.22,2021	Jan.21,2022
		D5GHzV2	1023	Jan.26,2021	Jan.25,2022
SPEAG	Data acquisition Electronics	DAE4	1260	Dec.16,2020	Dec.15,2021
SPEAG	Software	DASY52 4.7.80(0)	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.17,2021	Feb.16,2022
Agilent	Dual-directional coupler	772D	MY52180142	Oct.06,2020	Oct.05,2021
		778D	MY52180302	Oct.06,2020	Oct.05,2021
Agilent	Signal Generator	N5181A	MY50145142	Dec.27,2020	Dec.26,2021
Agilent	Power Meter	E4417A	MY51410006	Mar.23,2021	Mar.22,2022
Agilent	Power Sensor	E9301H	MY51470001	Mar.23,2021	Mar.22,2022
			MY51470002	Mar.23,2021	Mar.22,2022

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
TECPEL	Digital thermometer	DTM-303A	TP190085	Dec.22,2020	Dec.14,2021
Anritsu	Radio Communication Test	MT8821C	6262044739	Dec.02.2020	Dec.01.2021

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## 5. Measurements

Date: 2021/9/2

**Report No. : E5/2021/80015**

**WCDMA Band II\_Body\_Top Edge\_CH 9262\_19mm**

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

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.405$  S/m;  $\epsilon_r = 40.099$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.74, 8.74, 8.74); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.09 W/kg

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

Reference Value = 9.937 V/m; Power Drift = 0.03 dB

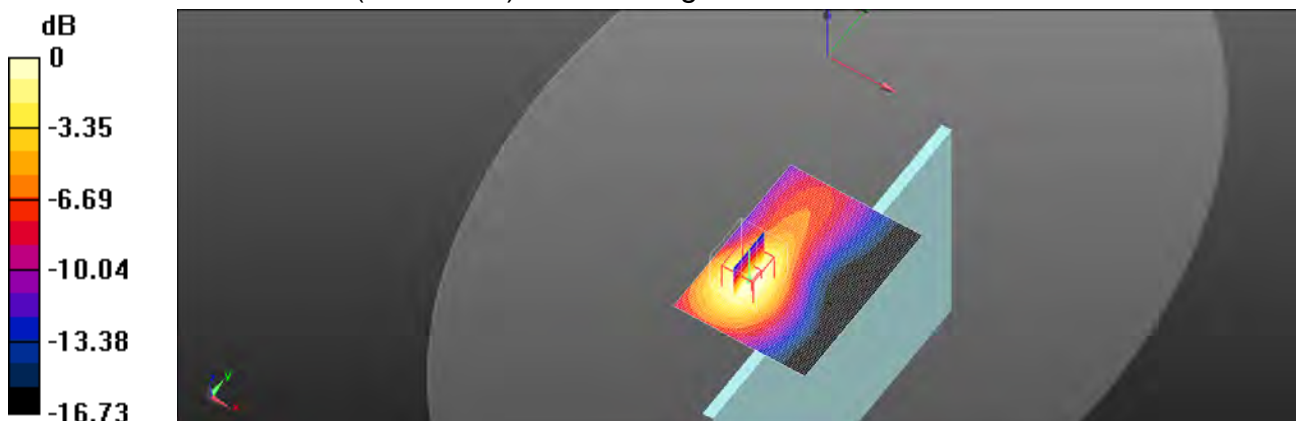
Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.810 W/kg; SAR(10 g) = 0.473 W/kg**

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 61.1%

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.36 dBW/kg

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**Report No. : E5/2021/80015**

**WCDMA Band V\_Body\_Left Edge\_CH 4233\_0mm**

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

Medium parameters used:  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.918 \text{ S/m}$ ;  $\epsilon_r = 41.61$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.97, 9.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.351 W/kg

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

Reference Value = 8.400 V/m; Power Drift = -0.04 dB

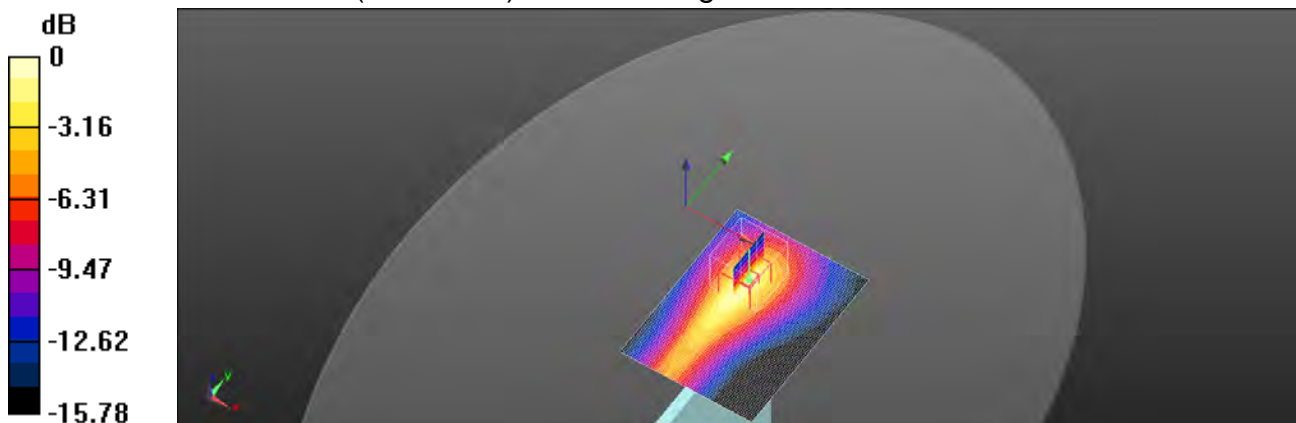
Peak SAR (extrapolated) = 0.613 W/kg

**SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.148 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.4 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.451 W/kg = -3.46 dBW/kg

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**Report No. : E5/2021/80015**

**WCDMA Band II\_Body\_Back Surface CH 9400\_0mm**

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

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.405 \text{ S/m}$ ;  $\epsilon_r = 40.099$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.74, 8.74, 8.74); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.12 W/kg

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

Reference Value = 9.621 V/m; Power Drift = 0.03 dB

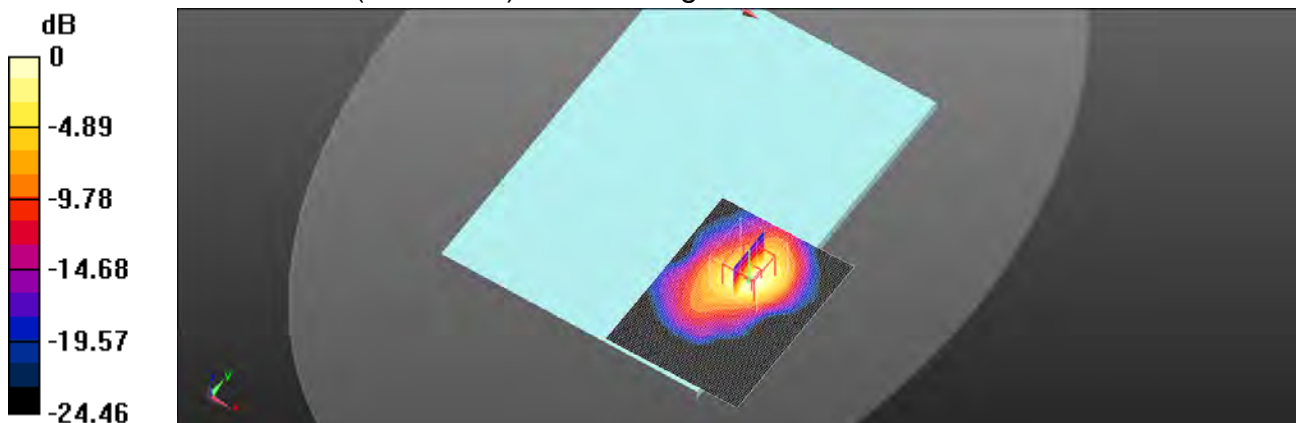
Peak SAR (extrapolated) = 1.57 W/kg

**SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.351 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 58.2%

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



0 dB = 1.16 W/kg = 0.65 dBW/kg

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**Report No. : E5/2021/80015**

**WCDMA Band V\_Body\_Top Edge CH 4233\_0mm**

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

Medium parameters used:  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.918 \text{ S/m}$ ;  $\epsilon_r = 41.61$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.97, 9.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.756 W/kg

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

Reference Value = 8.525 V/m; Power Drift = 0.02 dB

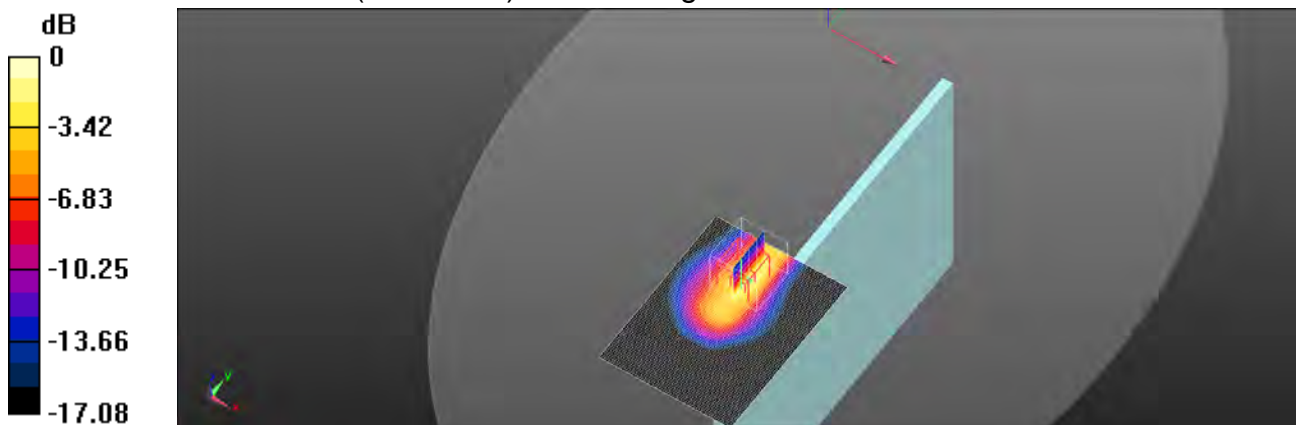
Peak SAR (extrapolated) = 1.76 W/kg

**SAR(1 g) = 0.712 W/kg; SAR(10 g) = 0.336 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 58.6%

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



0 dB = 1.25 W/kg = 0.97 dBW/kg

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Date: 2021/9/2

**Report No. : E5/2021/80015**

**LTE Band 2 (20MHz)\_Body\_Back Surface\_CH 18700\_QPSK\_1-0\_16mm**

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

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.405$  S/m;  $\epsilon_r = 40.099$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.74, 8.74, 8.74); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.794 W/kg

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

Reference Value = 0.8140 V/m; Power Drift = 0.01 dB

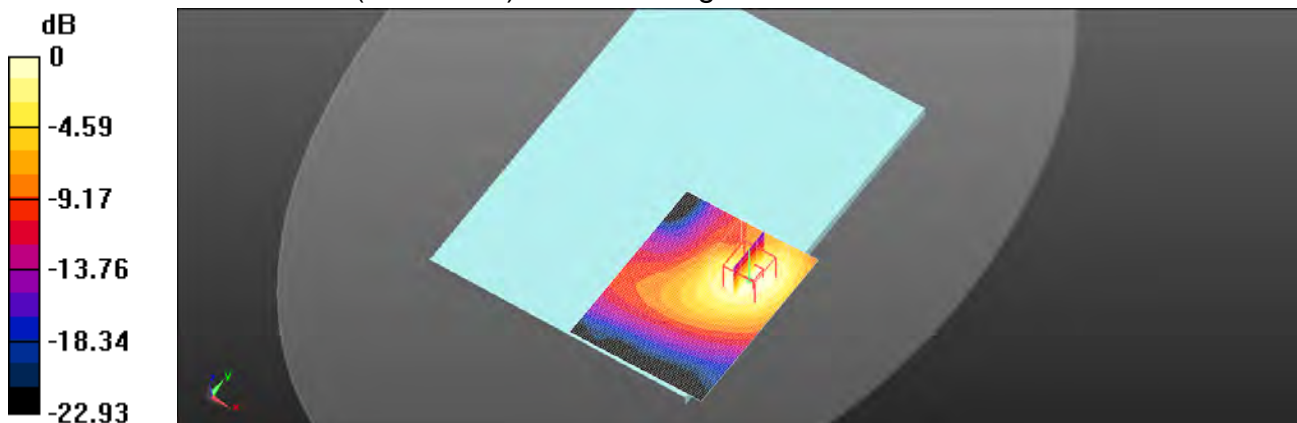
Peak SAR (extrapolated) = 0.967 W/kg

**SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.320 W/kg**

Smallest distance from peaks to all points 3 dB below = 13.6 mm

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

Maximum value of SAR (measured) = 0.773 W/kg



0 dB = 0.773 W/kg = -1.12 dBW/kg

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Date: 2021/9/2

**Report No. : E5/2021/80015**

**LTE Band 4 (20MHz)\_Body\_Top Edge\_CH 20050\_QPSK\_1-0\_19mm**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.355$  S/m;  $\epsilon_r = 40.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.11, 9.11, 9.11); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 10.03 V/m; Power Drift = 0.03 dB

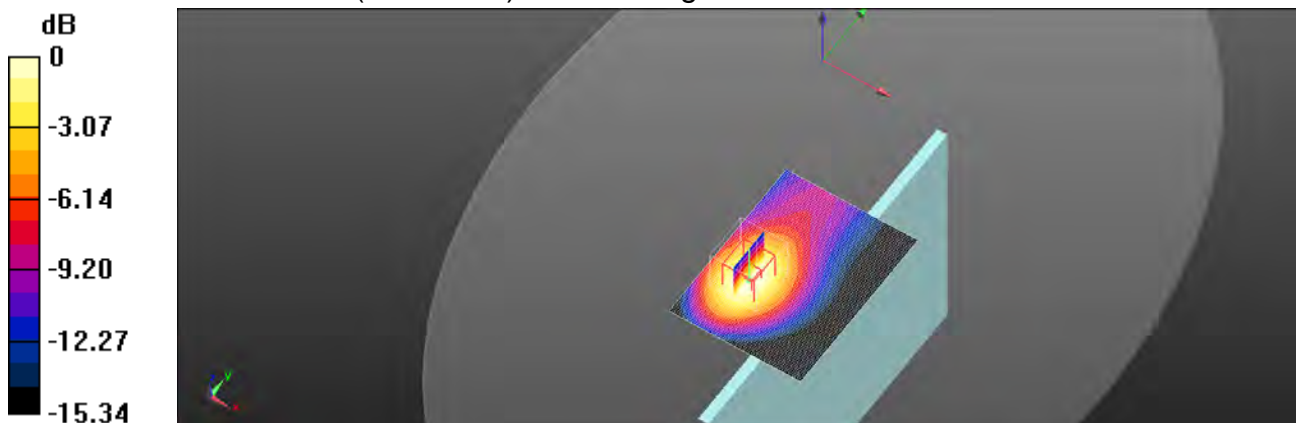
Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.929 W/kg; SAR(10 g) = 0.556 W/kg**

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 62.9%

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



0 dB = 1.22 W/kg = 0.87 dBW/kg

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**Report No. : E5/2021/80015**

**LTE Band 5 (10MHz)\_Body\_Back Surface\_CH 20600\_QPSK\_1-0\_16mm**

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

Medium parameters used:  $f = 844 \text{ MHz}$ ;  $\sigma = 0.917 \text{ S/m}$ ;  $\epsilon_r = 41.621$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.97, 9.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.254 W/kg

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

Reference Value = 8.037 V/m; Power Drift = -0.01 dB

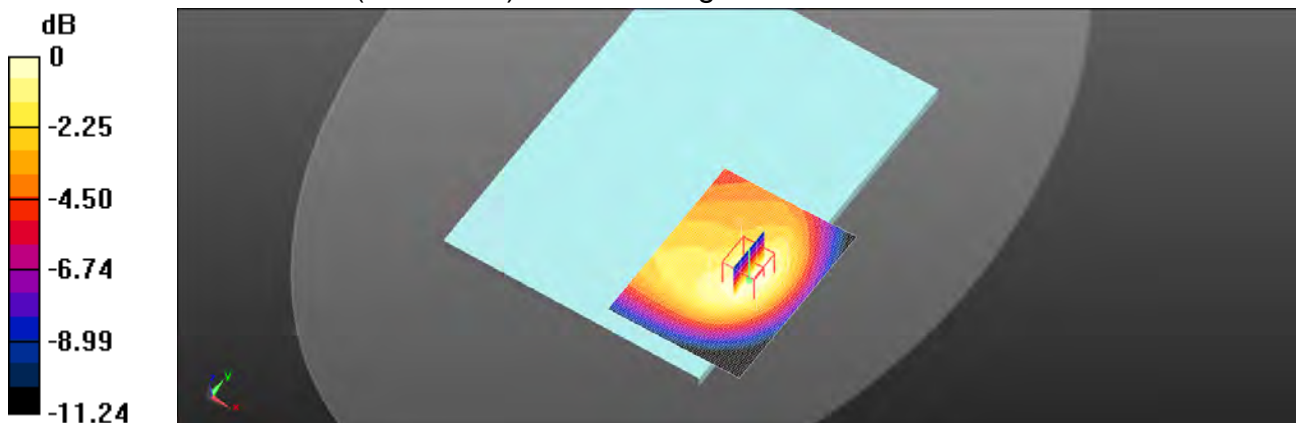
Peak SAR (extrapolated) = 0.299 W/kg

**SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.136 W/kg**

Smallest distance from peaks to all points 3 dB below = 21.5 mm

Ratio of SAR at M2 to SAR at M1 = 67.8%

Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg = -5.92 dBW/kg

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Date: 2021/9/3

**Report No. : E5/2021/80015**

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

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

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 1.865$  S/m;  $\epsilon_r = 39.223$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.97, 7.97, 7.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 5.296 V/m; Power Drift = -0.03 dB

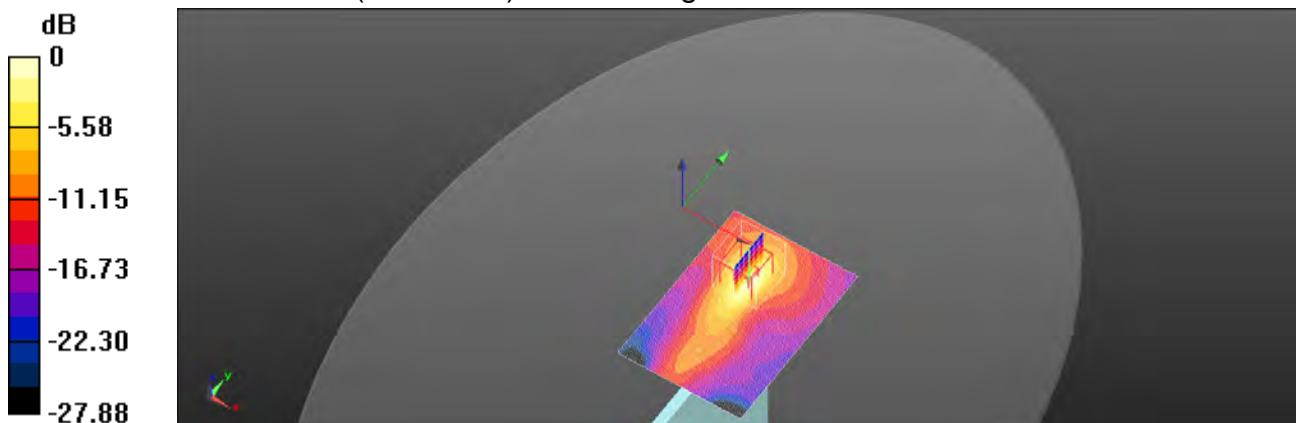
Peak SAR (extrapolated) = 2.31 W/kg

**SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.295 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

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Date: 2021/9/1

**Report No. : E5/2021/80015**

**LTE Band 12 (10MHz)\_Body\_Back Surface\_CH 23130\_QPSK\_1-0\_16mm**

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

Medium parameters used:  $f = 711 \text{ MHz}$ ;  $\sigma = 0.893 \text{ S/m}$ ;  $\epsilon_r = 42.243$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(10.29, 10.29, 10.29); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 6.703 V/m; Power Drift = -0.04 dB

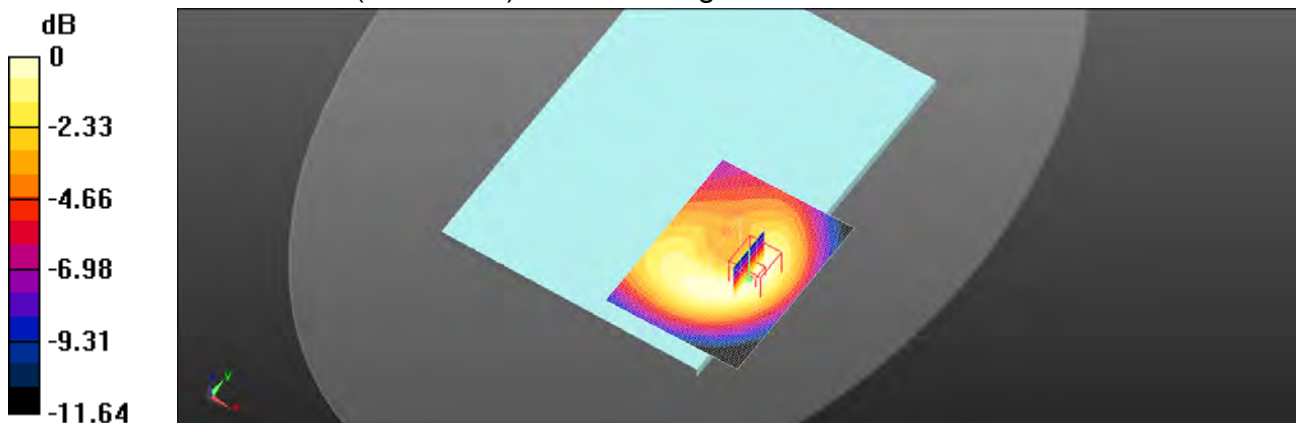
Peak SAR (extrapolated) = 0.352 W/kg

**SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.151 W/kg**

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 65.6%

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg = -5.28 dBW/kg

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**Report No. : E5/2021/80015**

**LTE Band 13 (10MHz)\_Body\_Back Surface\_CH 23230\_QPSK\_1-0\_16mm**

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

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.899 \text{ S/m}$ ;  $\epsilon_r = 41.874$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(10.29, 10.29, 10.29); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.256 W/kg

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

Reference Value = 8.170 V/m; Power Drift = 0.04 dB

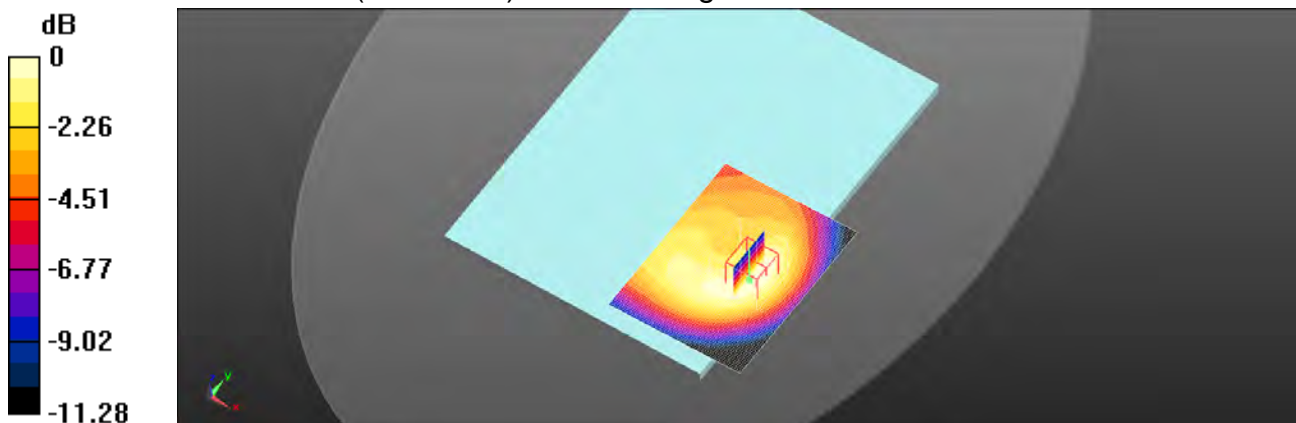
Peak SAR (extrapolated) = 0.301 W/kg

**SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.134 W/kg**

Smallest distance from peaks to all points 3 dB below = 21.5 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

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



0 dB = 0.255 W/kg = -5.94 dBW/kg

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**Report No. : E5/2021/80015**

**LTE Band 14 (10MHz)\_Body\_Back Surface\_CH 23330\_QPSK\_1-0\_16mm**

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

Medium parameters used:  $f = 793 \text{ MHz}$ ;  $\sigma = 0.9 \text{ S/m}$ ;  $\epsilon_r = 41.817$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $22.6^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(10.29, 10.29, 10.29); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.258 \text{ W/kg}$

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

Reference Value =  $8.466 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$

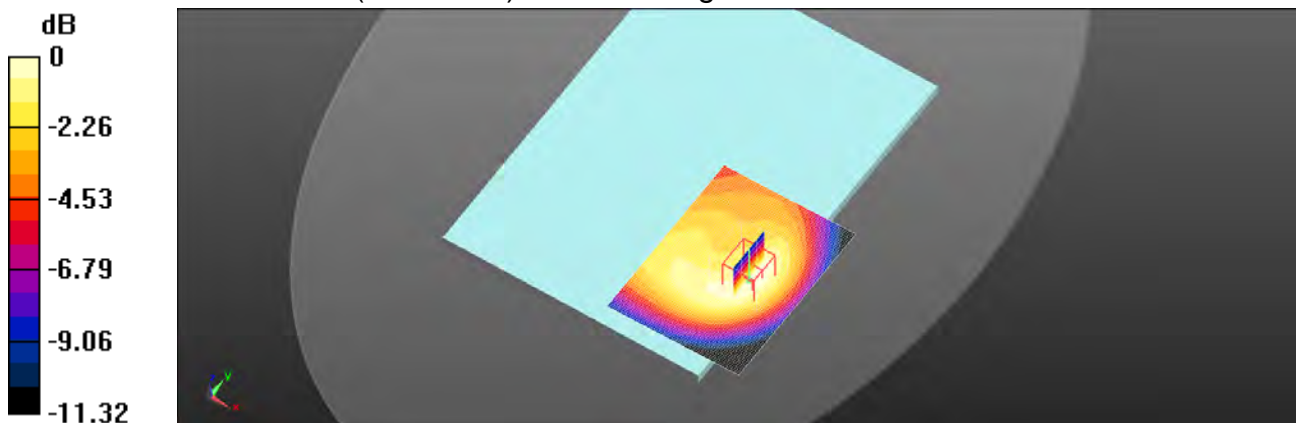
Peak SAR (extrapolated) =  $0.305 \text{ W/kg}$

**SAR(1 g) =  $0.206 \text{ W/kg}$ ; SAR(10 g) =  $0.137 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $19.5 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $67.1\%$

Maximum value of SAR (measured) =  $0.260 \text{ W/kg}$



$0 \text{ dB} = 0.260 \text{ W/kg} = -5.85 \text{ dBW/kg}$

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Date: 2021/9/2

**Report No. : E5/2021/80015**

**LTE Band 25 (20MHz)\_Body\_Top Edge\_CH 26140\_QPSK\_1-0\_19mm**

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

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.405$  S/m;  $\epsilon_r = 40.099$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.74, 8.74, 8.74); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.01 W/kg

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

Reference Value = 9.404 V/m; Power Drift = -0.05 dB

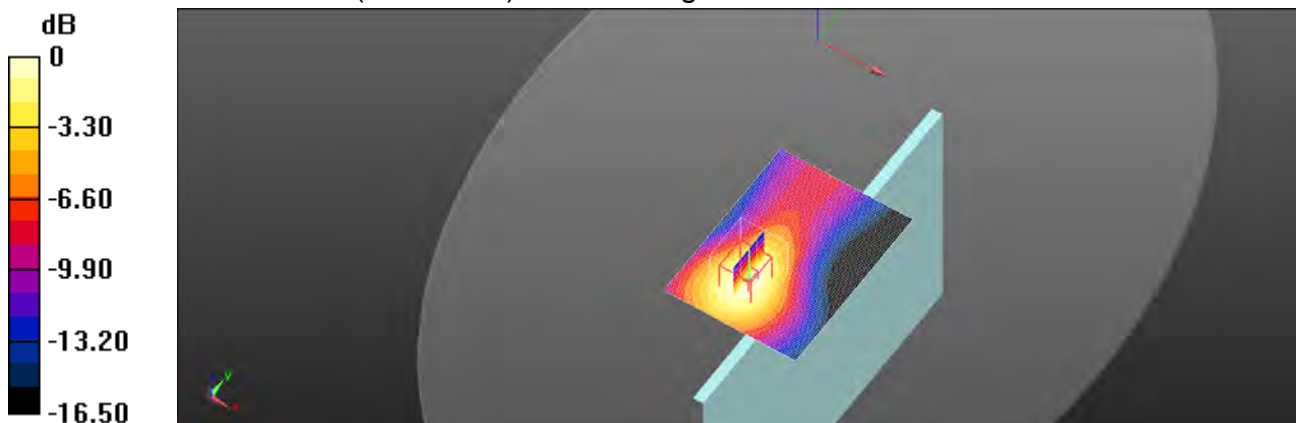
Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.453 W/kg**

Smallest distance from peaks to all points 3 dB below = 16.4 mm

Ratio of SAR at M2 to SAR at M1 = 61.9%

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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**Report No. : E5/2021/80015**

**LTE Band 26 (15MHz)\_Body\_Back Surface\_CH 26965\_QPSK\_1-0\_16mm**

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 841.5$  MHz;  $\sigma = 0.916$  S/m;  $\epsilon_r = 41.628$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.97, 9.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 8.242 V/m; Power Drift = -0.01 dB

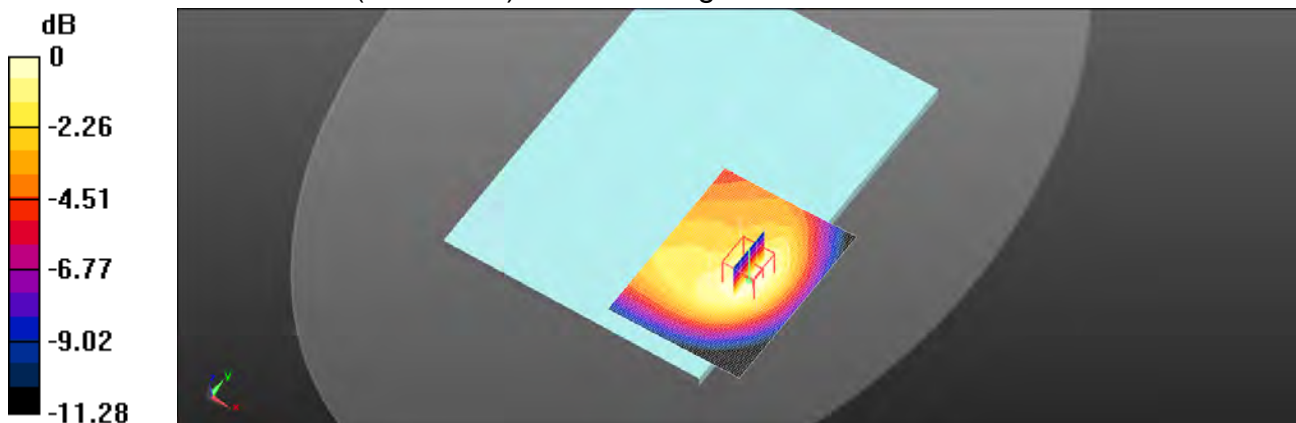
Peak SAR (extrapolated) = 0.310 W/kg

**SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.141 W/kg**

Smallest distance from peaks to all points 3 dB below = 21.5 mm

Ratio of SAR at M2 to SAR at M1 = 67.6%

Maximum value of SAR (measured) = 0.265 W/kg



0 dB = 0.265 W/kg = -5.77 dBW/kg

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Date: 2021/9/3

**Report No. : E5/2021/80015**

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

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

Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.692$  S/m;  $\epsilon_r = 39.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.31, 8.31, 8.31); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.369 W/kg

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

Reference Value = 2.383 V/m; Power Drift = -0.04 dB

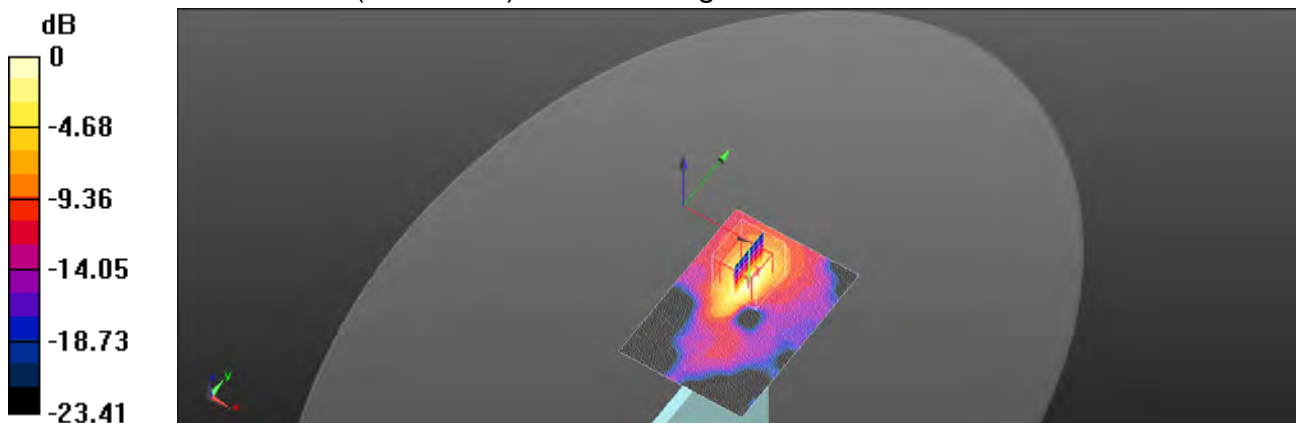
Peak SAR (extrapolated) = 0.643 W/kg

**SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.094 W/kg**

Smallest distance from peaks to all points 3 dB below = 6 mm

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

Maximum value of SAR (measured) = 0.412 W/kg



0 dB = 0.412 W/kg = -3.85 dBW/kg

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Date: 2021/9/3

**Report No. : E5/2021/80015**

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

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

Medium parameters used:  $f = 2580$  MHz;  $\sigma = 1.928$  S/m;  $\epsilon_r = 39.134$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.97, 7.97, 7.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.547 W/kg

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

Reference Value = 3.426 V/m; Power Drift = 0.04 dB

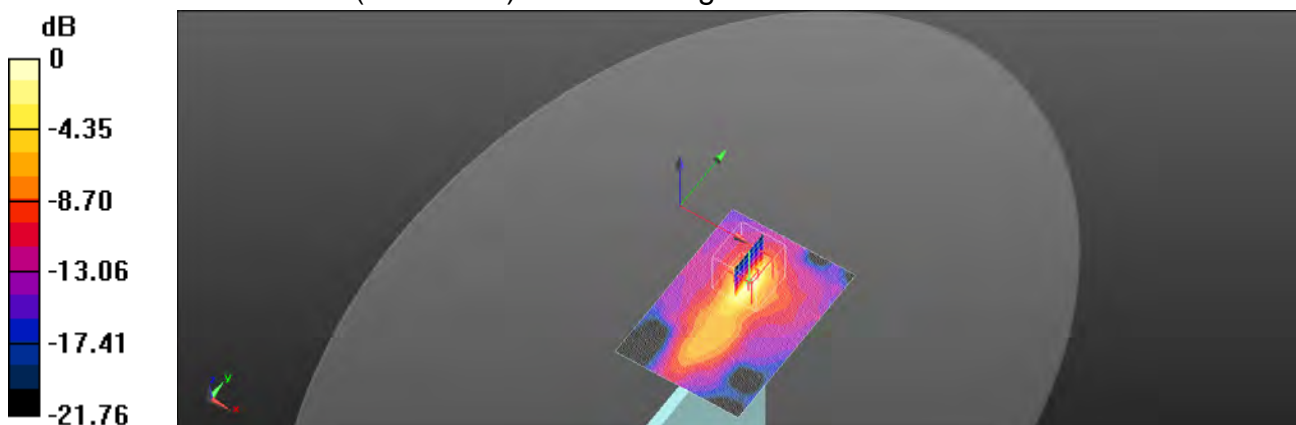
Peak SAR (extrapolated) = 0.996 W/kg

**SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.104 W/kg**

Smallest distance from peaks to all points 3 dB below = 5 mm

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 0.563 W/kg



0 dB = 0.563 W/kg = -2.50 dBW/kg

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**Report No. : E5/2021/80015**

**LTE Band 41 (20MHz)\_Body\_Left Edge\_CH 39750\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2506 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2506$  MHz;  $\sigma = 1.862$  S/m;  $\epsilon_r = 39.228$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.97, 7.97, 7.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.901 W/kg

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

Reference Value = 4.303 V/m; Power Drift = -0.02 dB

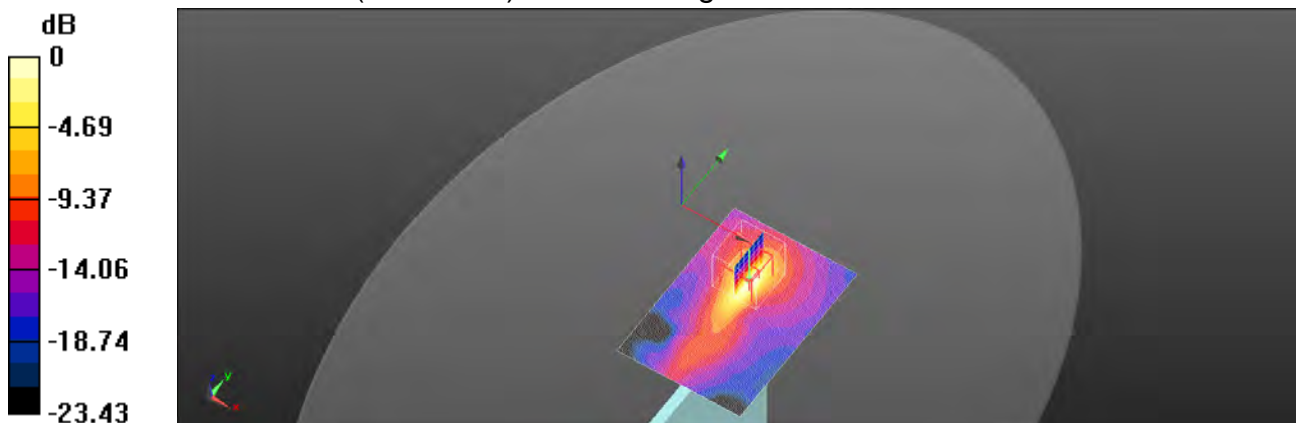
Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.174 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 0.899 W/kg



0 dB = 0.899 W/kg = -0.46 dBW/kg

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Date: 2021/9/2

**Report No. : E5/2021/80015**

**LTE Band 66 (20MHz)\_Body\_Top Edge\_CH 132072\_QPSK\_1-0\_19mm**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.355$  S/m;  $\epsilon_r = 40.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.11, 9.11, 9.11); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.09 W/kg

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

Reference Value = 9.794 V/m; Power Drift = -0.01 dB

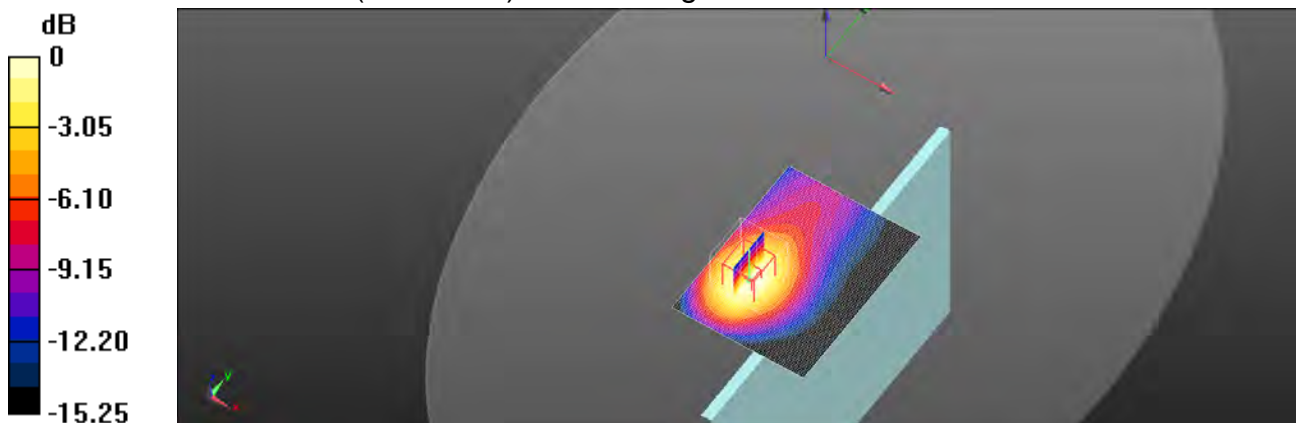
Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.497 W/kg**

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 63.1%

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.38 dBW/kg

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Date: 2021/9/2

**Report No. : E5/2021/80015**

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

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

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.405$  S/m;  $\epsilon_r = 40.099$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.74, 8.74, 8.74); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 2.814 V/m; Power Drift = 0.01 dB

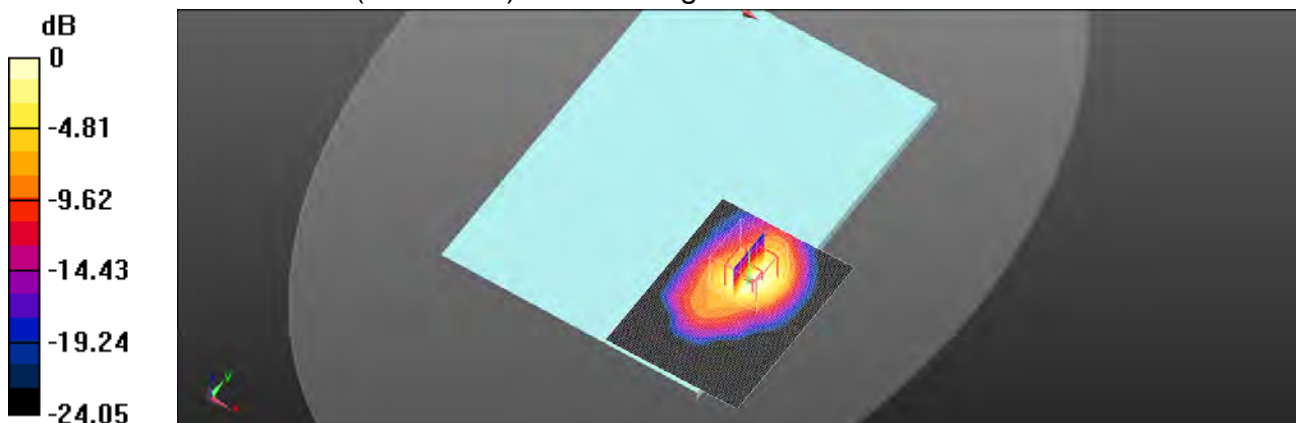
Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.680 W/kg; SAR(10 g) = 0.322 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.19 dBW/kg

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Date: 2021/9/2

**Report No. : E5/2021/80015**

**LTE Band 4 (20MHz)\_Body\_Top Edge\_CH 20050\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.355$  S/m;  $\epsilon_r = 40.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.11, 9.11, 9.11); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.908 W/kg

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

Reference Value = 10.64 V/m; Power Drift = 0.05 dB

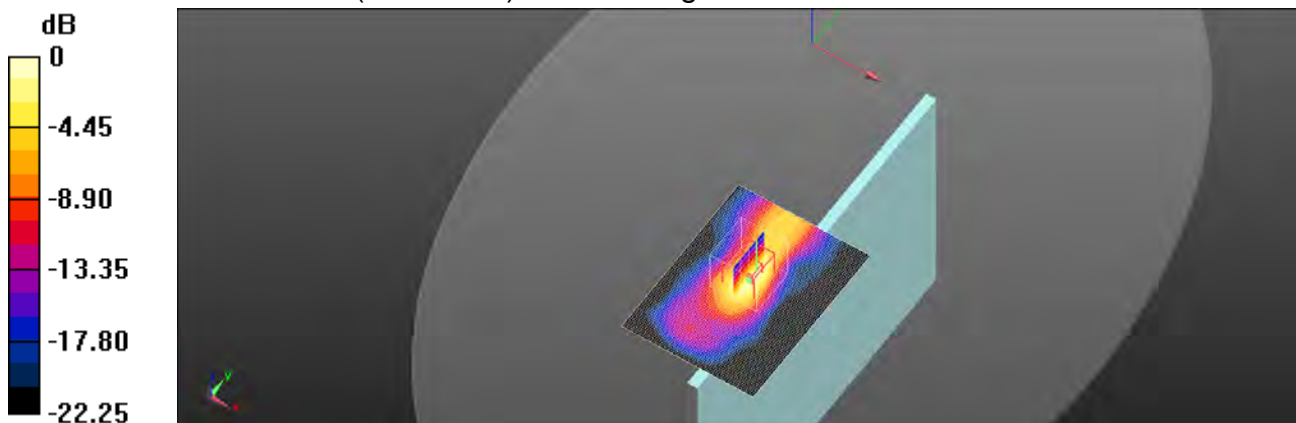
Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.308 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

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



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

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**Report No. : E5/2021/80015**

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

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

Medium parameters used:  $f = 829 \text{ MHz}$ ;  $\sigma = 0.911 \text{ S/m}$ ;  $\epsilon_r = 41.675$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.97, 9.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.552 W/kg

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

Reference Value = 0.7550 V/m; Power Drift = 0.05 dB

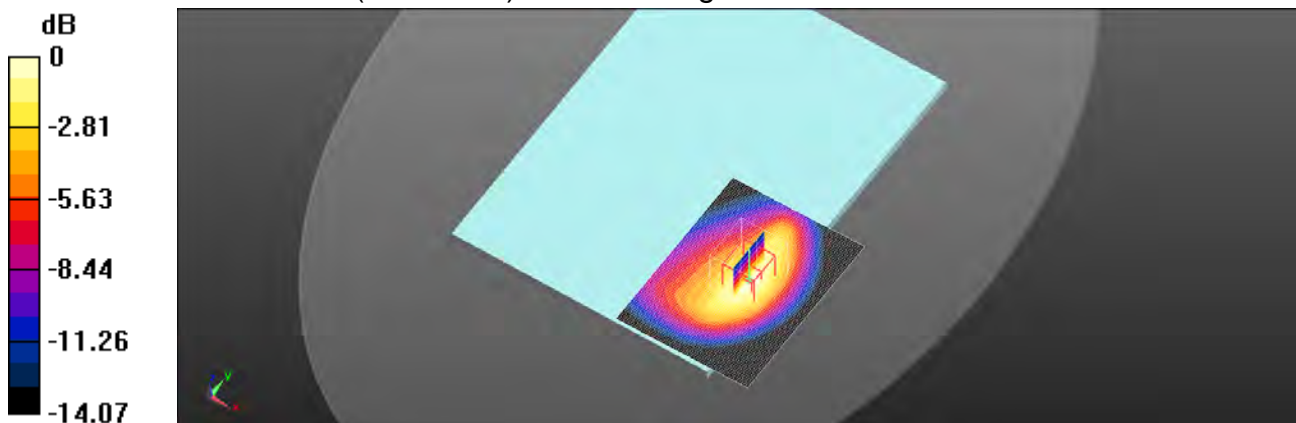
Peak SAR (extrapolated) = 0.802 W/kg

**SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.253 W/kg**

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

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

Maximum value of SAR (measured) = 0.626 W/kg



0 dB = 0.626 W/kg = -2.03 dBW/kg

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**Report No. : E5/2021/80015**

**LTE Band 7 (20MHz)\_Body\_Back Surface\_CH 21100\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.888$  S/m;  $\epsilon_r = 39.191$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.97, 7.97, 7.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.914 W/kg

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

Reference Value = 5.996 V/m; Power Drift = -0.03 dB

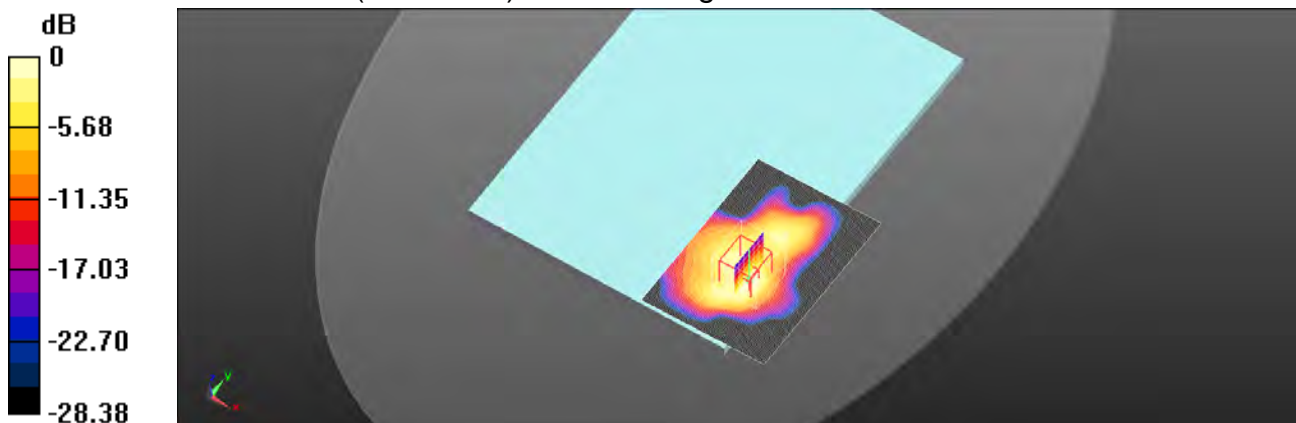
Peak SAR (extrapolated) = 1.39 W/kg

**SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.277 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 0.995 W/kg



0 dB = 0.995 W/kg = -0.02 dBW/kg

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**Report No. : E5/2021/80015**

**LTE Band 12 (10MHz)\_Body\_Back Surface\_CH 23060\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 704 \text{ MHz}$ ;  $\sigma = 0.892 \text{ S/m}$ ;  $\epsilon_r = 42.279$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $22.6^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(10.29, 10.29, 10.29); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.737 \text{ W/kg}$

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

Reference Value =  $1.498 \text{ V/m}$ ; Power Drift =  $0.04 \text{ dB}$

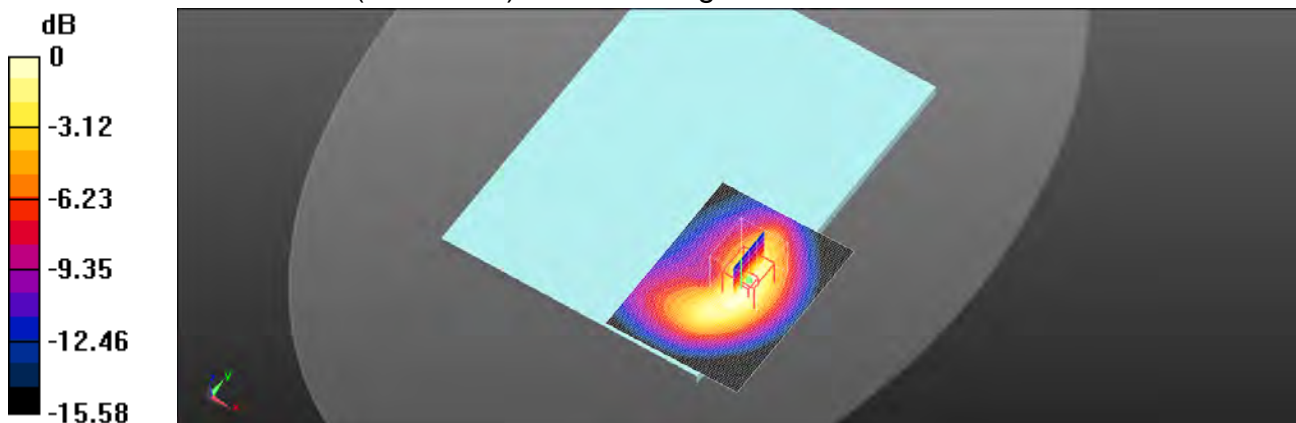
Peak SAR (extrapolated) =  $1.09 \text{ W/kg}$

**SAR(1 g) =  $0.578 \text{ W/kg}$ ; SAR(10 g) =  $0.321 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $9.6 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $52.9\%$

Maximum value of SAR (measured) =  $0.827 \text{ W/kg}$



$0 \text{ dB} = 0.827 \text{ W/kg} = -0.82 \text{ dBW/kg}$

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**Report No. : E5/2021/80015**

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

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

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.899 \text{ S/m}$ ;  $\epsilon_r = 41.874$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(10.29, 10.29, 10.29); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.626 W/kg

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

Reference Value = 1.003 V/m; Power Drift = 0.03 dB

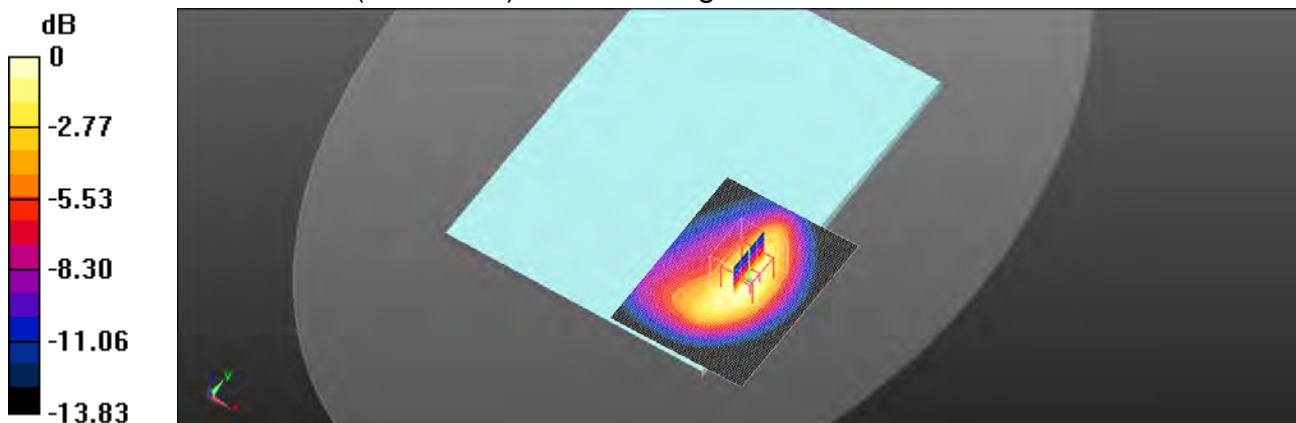
Peak SAR (extrapolated) = 0.913 W/kg

**SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.281 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.8 mm

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

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



0 dB = 0.709 W/kg = -1.49 dBW/kg

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Date: 2021/9/1

**Report No. : E5/2021/80015**
**LTE Band 14 (10MHz)\_Body\_Back Surface\_CH 23330\_QPSK\_1-0\_0mm**

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

 Medium parameters used:  $f = 793 \text{ MHz}$ ;  $\sigma = 0.9 \text{ S/m}$ ;  $\epsilon_r = 41.817$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

 Ambient temperature:  $22.6^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$ 

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(10.29, 10.29, 10.29); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

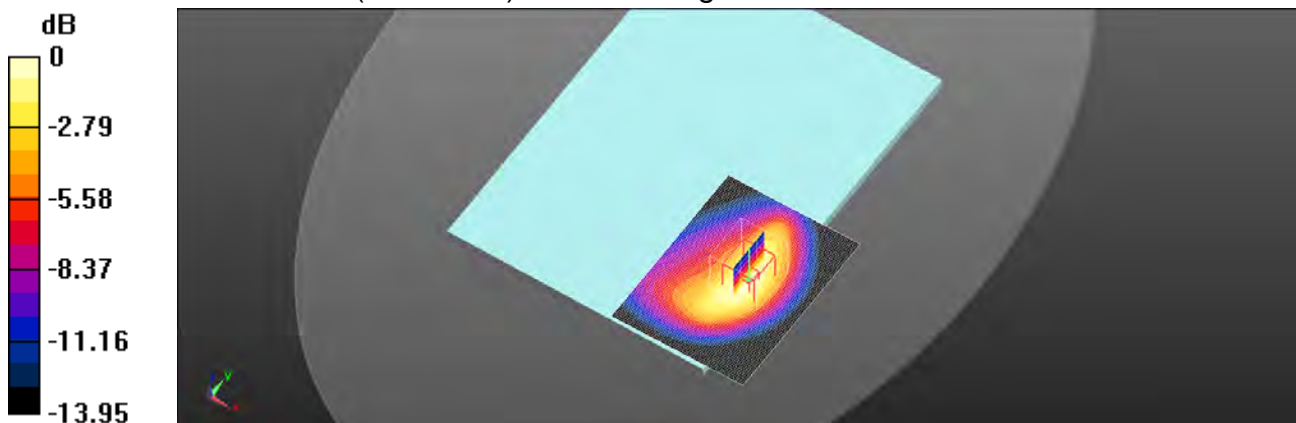
 Maximum value of SAR (interpolated) =  $0.559 \text{ W/kg}$ 
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

 Reference Value =  $0.9310 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$ 

 Peak SAR (extrapolated) =  $0.808 \text{ W/kg}$ 
**SAR(1 g) =  $0.439 \text{ W/kg}$ ; SAR(10 g) =  $0.250 \text{ W/kg}$** 

 Smallest distance from peaks to all points 3 dB below =  $12.8 \text{ mm}$ 

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

 Maximum value of SAR (measured) =  $0.631 \text{ W/kg}$ 

 $0 \text{ dB} = 0.631 \text{ W/kg} = -2.00 \text{ dBW/kg}$ 

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Date: 2021/9/2

**Report No. : E5/2021/80015**

**LTE Band 25 (20MHz)\_Body\_Back Surface\_CH 26140\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.405$  S/m;  $\epsilon_r = 40.099$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.74, 8.74, 8.74); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.01 W/kg

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

Reference Value = 9.751 V/m; Power Drift = -0.05 dB

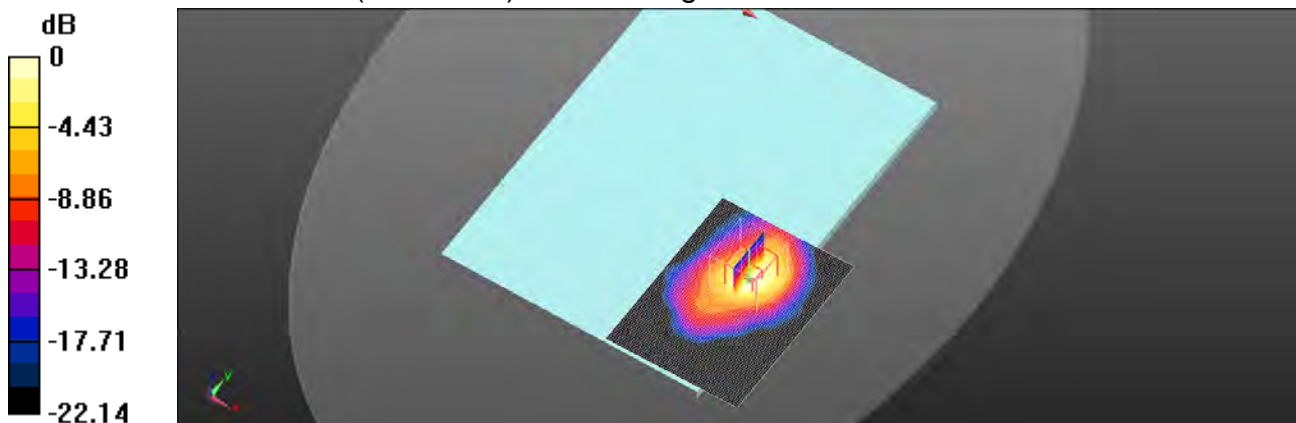
Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.320 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

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

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



0 dB = 1.05 W/kg = 0.21 dBW/kg

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**Report No. : E5/2021/80015**

**LTE Band 26 (15MHz)\_Body\_Back Surface\_CH 26965\_QPSK\_1-0\_0mm**

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 841.5$  MHz;  $\sigma = 0.916$  S/m;  $\epsilon_r = 41.628$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.97, 9.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.564 W/kg

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

Reference Value = 0.9290 V/m; Power Drift = 0.04 dB

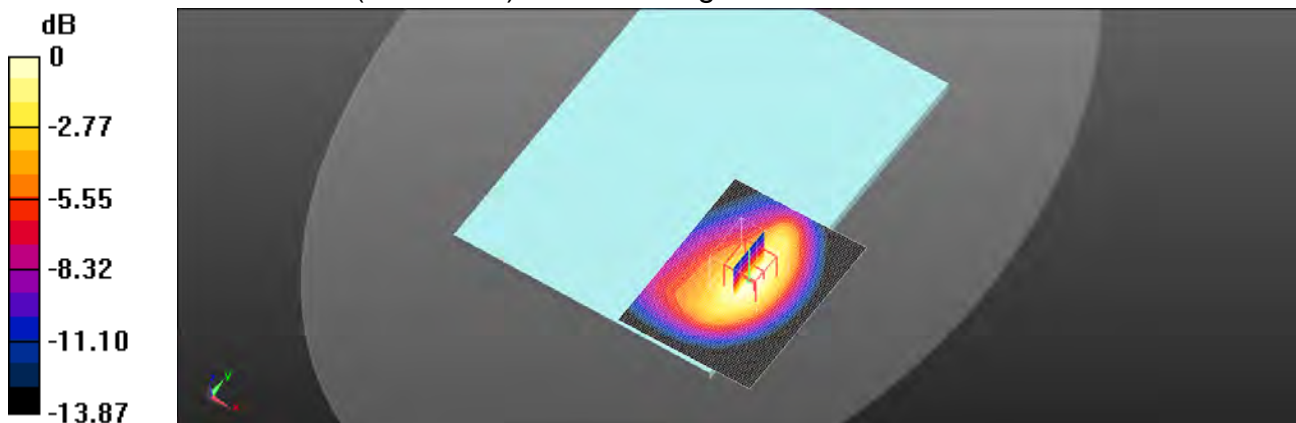
Peak SAR (extrapolated) = 0.766 W/kg

**SAR(1 g) = 0.431 W/kg; SAR(10 g) = 0.254 W/kg**

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

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

Maximum value of SAR (measured) = 0.593 W/kg



0 dB = 0.593 W/kg = -2.27 dBW/kg

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Date: 2021/9/3

**Report No. : E5/2021/80015**
**LTE Band 30 (10MHz)\_Body\_Back Surface\_CH 27710\_QPSK\_1-0\_0mm**

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

 Medium parameters used:  $f = 2310$  MHz;  $\sigma = 1.692$  S/m;  $\epsilon_r = 39.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.31, 8.31, 8.31); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.803 W/kg

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

Reference Value = 6.151 V/m; Power Drift = -0.03 dB

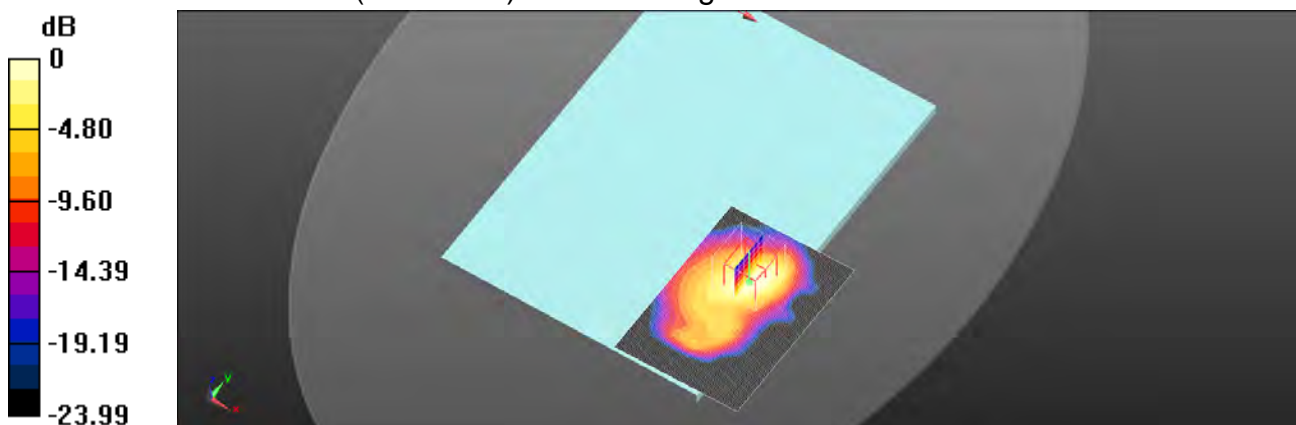
Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.272 W/kg**

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

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

Maximum value of SAR (measured) = 0.846 W/kg



0 dB = 0.846 W/kg = -0.73 dBW/kg

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**Report No. : E5/2021/80015**

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

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

Medium parameters used:  $f = 2580$  MHz;  $\sigma = 1.928$  S/m;  $\epsilon_r = 39.134$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.97, 7.97, 7.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 3.116 V/m; Power Drift = 0.04 dB

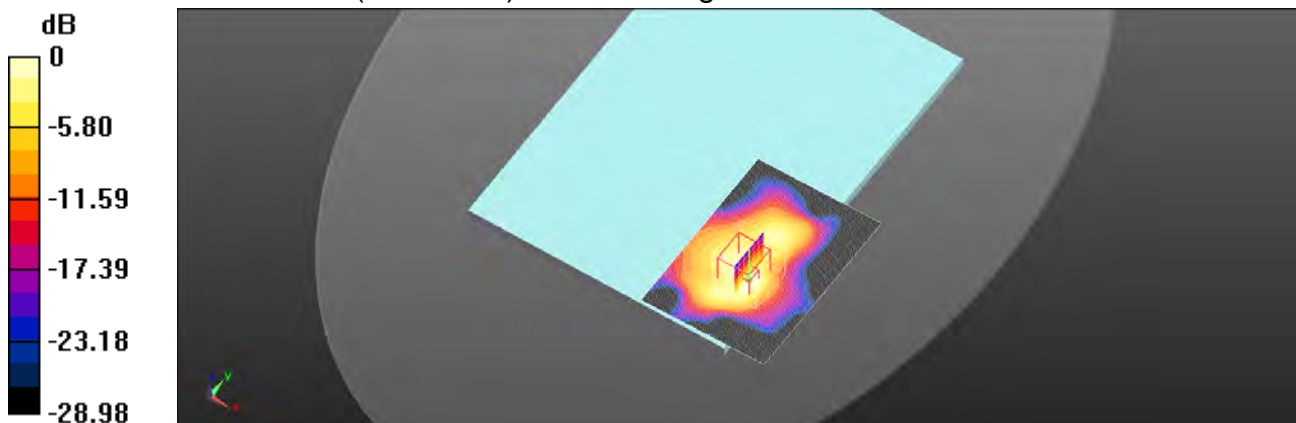
Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.578 W/kg; SAR(10 g) = 0.253 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 59.3%

Maximum value of SAR (measured) = 0.908 W/kg



0 dB = 0.908 W/kg = -0.42 dBW/kg

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Date: 2021/9/3

**Report No. : E5/2021/80015**

**LTE Band 41 (20MHz)\_Body\_Back Surface\_CH 40620\_QPSK\_1-0\_0mm**

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

Medium parameters used:  $f = 2593 \text{ MHz}$ ;  $\sigma = 1.94 \text{ S/m}$ ;  $\epsilon_r = 39.117$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.97, 7.97, 7.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.820 W/kg

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

Reference Value = 2.303 V/m; Power Drift = -0.02 dB

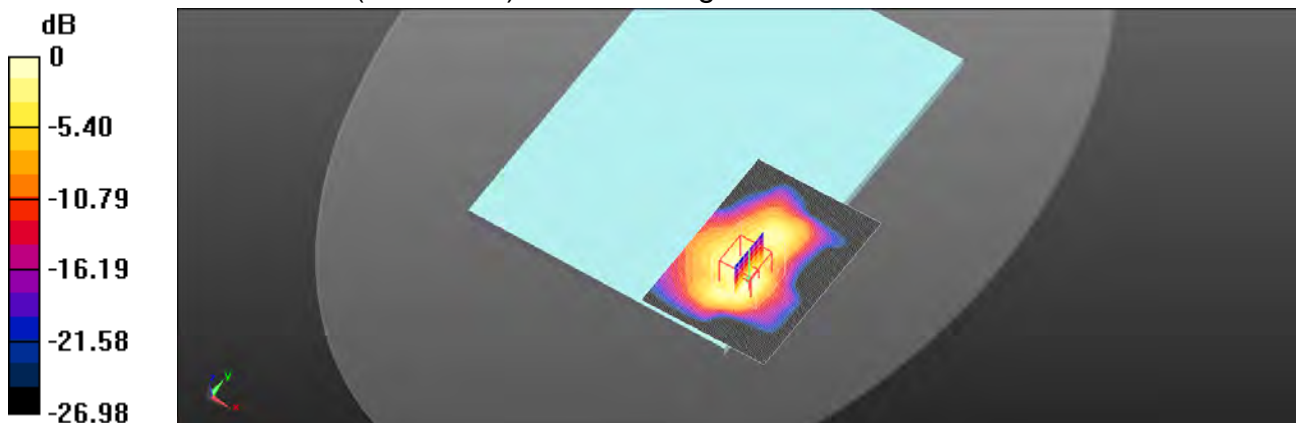
Peak SAR (extrapolated) = 2.00 W/kg

**SAR(1 g) = 0.560 W/kg; SAR(10 g) = 0.242 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.7 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 0.879 W/kg



0 dB = 0.879 W/kg = -0.56 dBW/kg

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Date: 2021/9/2

**Report No. : E5/2021/80015**

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

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

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.384$  S/m;  $\epsilon_r = 40.146$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.11, 9.11, 9.11); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.890 W/kg

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

Reference Value = 9.784 V/m; Power Drift = -0.01 dB

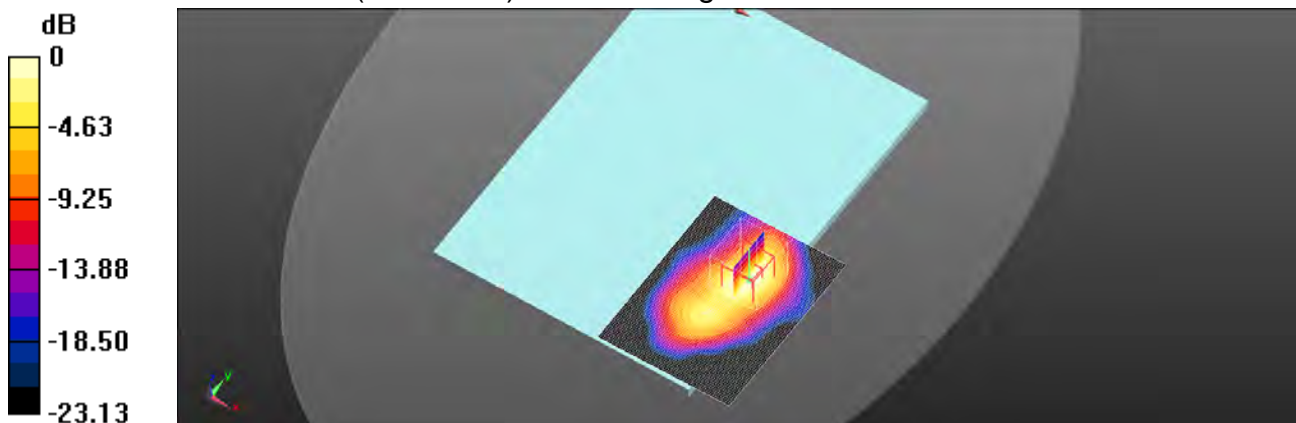
Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.303 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.25 dBW/kg

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Date: 2021/9/4

**Report No. : E5/2021/80015**

**WLAN 802.11b\_Hotspot\_Back Surface\_CH 1\_0mm\_TX1**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:0.989

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.779$  S/m;  $\epsilon_r = 39.367$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.347 W/kg

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

Reference Value = 1.606 V/m; Power Drift = -0.01 dB

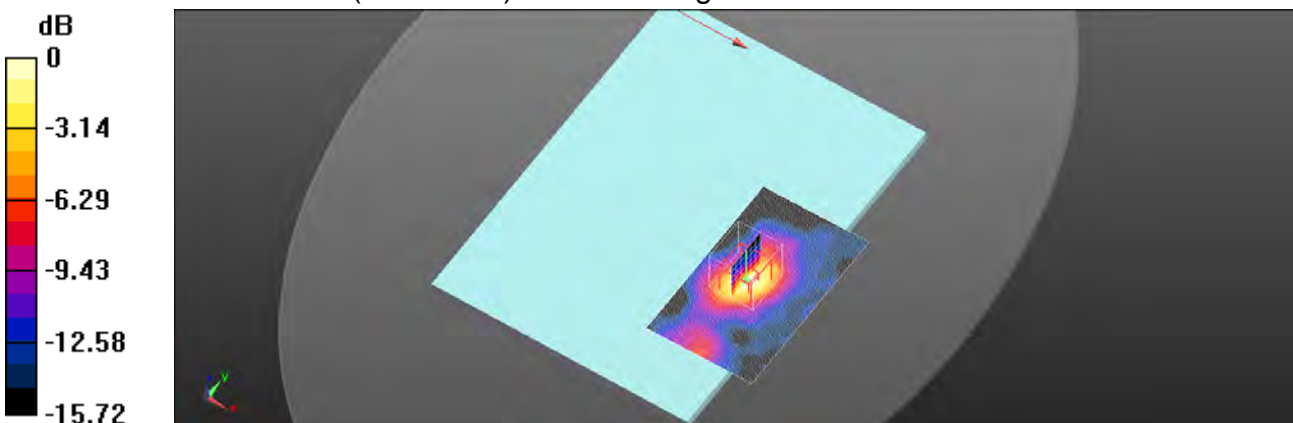
Peak SAR (extrapolated) = 0.581 W/kg

**SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.088 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.6 mm

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

Maximum value of SAR (measured) = 0.367 W/kg



0 dB = 0.367 W/kg = -4.35 dBW/kg

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Date: 2021/9/5

**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.2G\_Hotspot\_Back Surface\_CH 50\_0mm\_TX1**

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.714$  S/m;  $\epsilon_r = 36.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.185 W/kg

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

Reference Value = 2.127 V/m; Power Drift = -0.03 dB

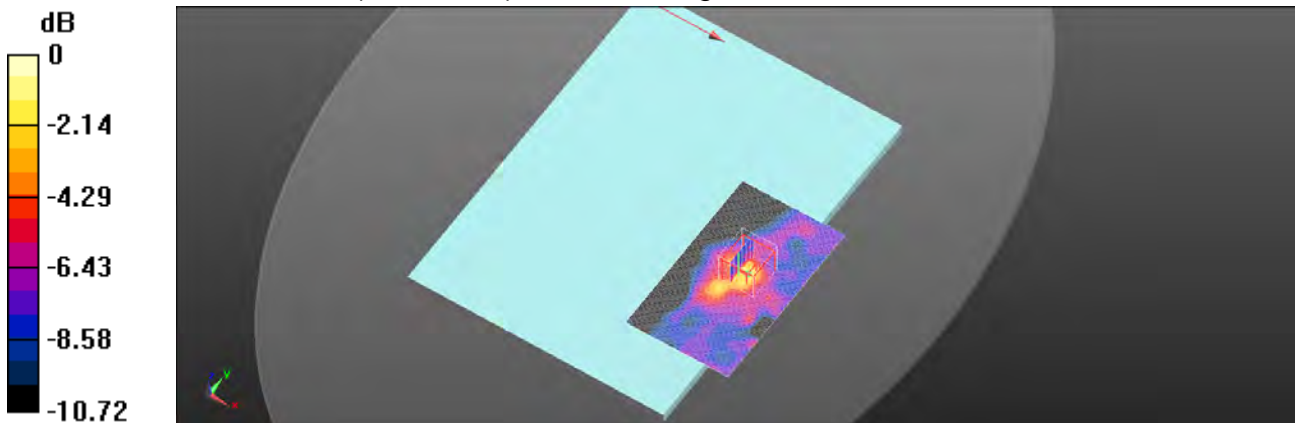
Peak SAR (extrapolated) = 0.883 W/kg

**SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.057 W/kg**

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

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

Maximum value of SAR (measured) = 0.290 W/kg



0 dB = 0.290 W/kg = -5.38 dBW/kg

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Date: 2021/9/5

**Report No. : E5/2021/80015**
**WLAN 802.11ac(80M) 5.3G\_Hotspot\_Back Surface\_CH 58\_0mm\_TX1**

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.984

 Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.755$  S/m;  $\epsilon_r = 35.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.292 W/kg

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

Reference Value = 1.574 V/m; Power Drift = -0.04 dB

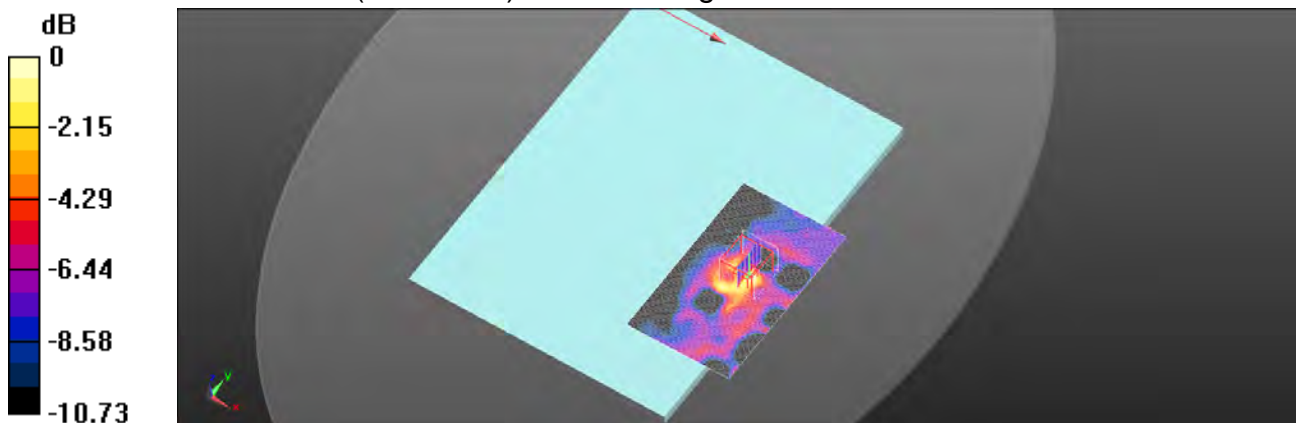
Peak SAR (extrapolated) = 0.828 W/kg

**SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.066 W/kg**

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

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

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



0 dB = 0.258 W/kg = -5.89 dBW/kg

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Date: 2021/9/6

**Report No. : E5/2021/80015**
**WLAN 802.11ac(80M) 5.6G\_Hotspot\_Back Surface\_CH 138\_0mm\_TX1**

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:0.984

 Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.166$  S/m;  $\epsilon_r = 35.525$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.220 W/kg

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

Reference Value = 1.814 V/m; Power Drift = 0.05 dB

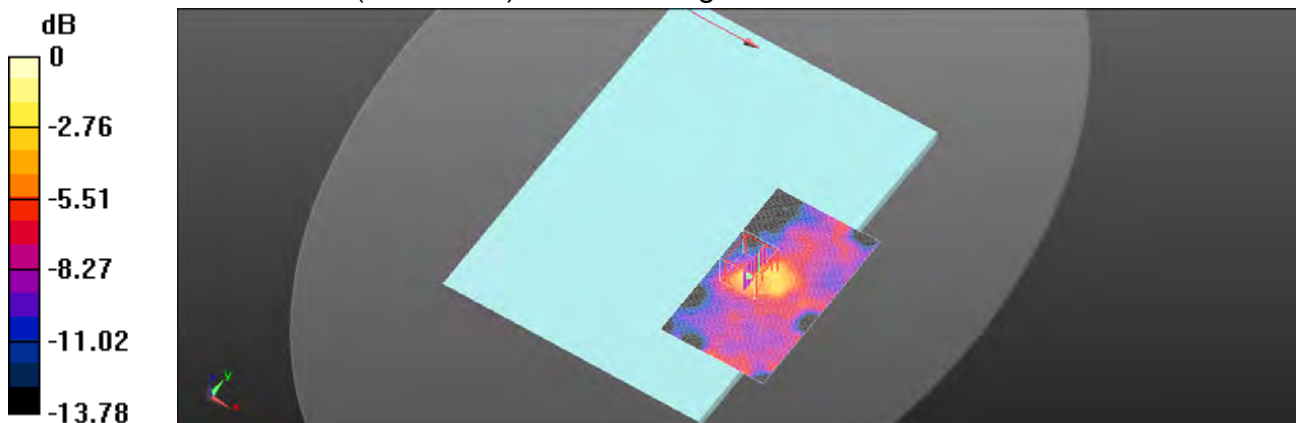
Peak SAR (extrapolated) = 1.87 W/kg

**SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.056 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 59.6%

Maximum value of SAR (measured) = 0.341 W/kg



0 dB = 0.341 W/kg = -4.68 dBW/kg

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Date: 2021/9/6

**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.6G\_Hotspot\_Back Surface\_CH 114\_0mm\_TX1**

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.044$  S/m;  $\epsilon_r = 35.662$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.315 W/kg

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

Reference Value = 3.062 V/m; Power Drift = 0.01 dB

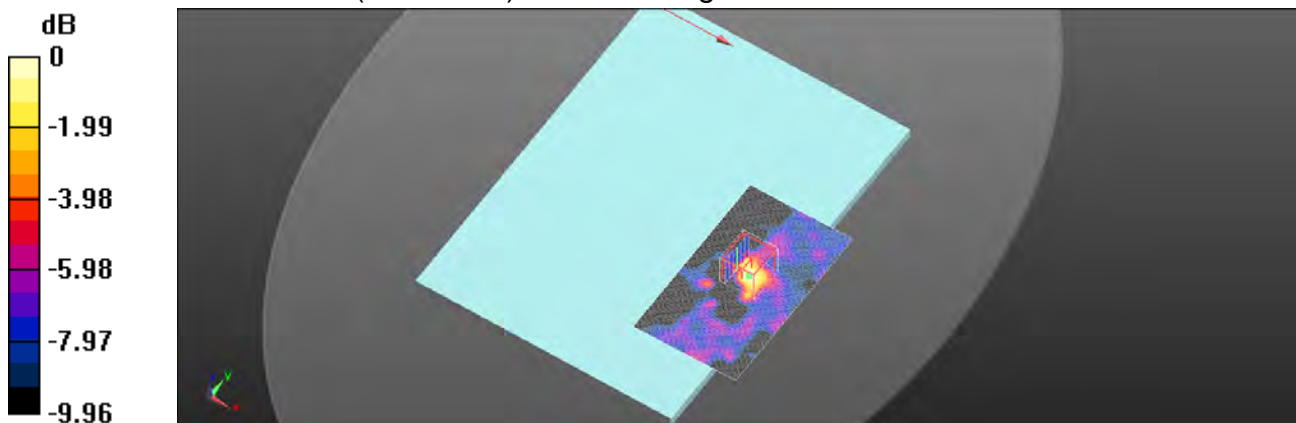
Peak SAR (extrapolated) = 2.05 W/kg

**SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.072 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 51.5%

Maximum value of SAR (measured) = 0.311 W/kg



0 dB = 0.311 W/kg = -5.07 dBW/kg

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Date: 2021/9/7

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.8G\_Hotspot\_Back Surface\_CH 155\_0mm\_TX1**

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.428$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.270 W/kg

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

Reference Value = 2.537 V/m; Power Drift = -0.01 dB

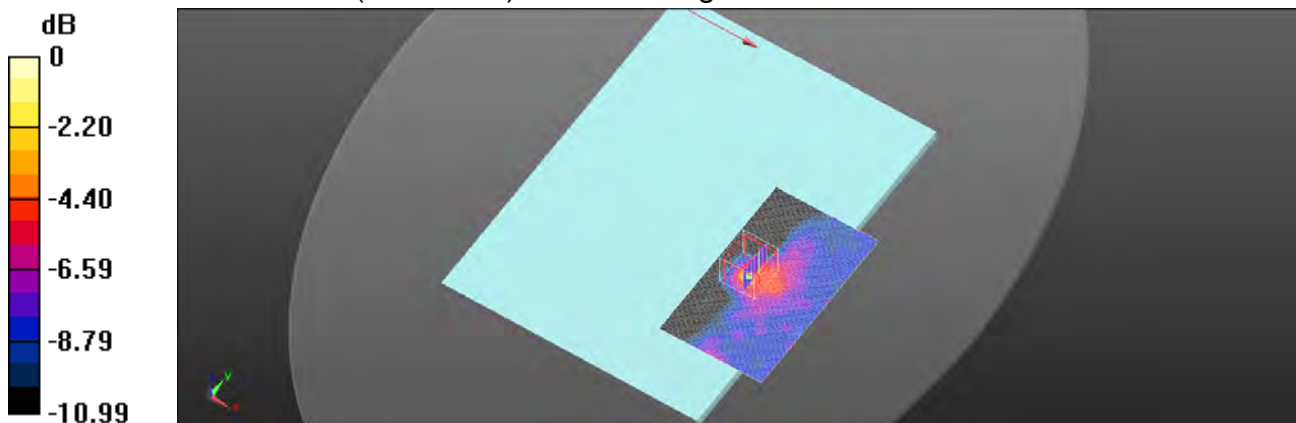
Peak SAR (extrapolated) = 0.825 W/kg

**SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.104 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.7 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.460 W/kg



0 dB = 0.460 W/kg = -3.37 dBW/kg

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Date: 2021/9/4

**Report No. : E5/2021/80015**

**WLAN 802.11b\_Hotspot\_Back Surface\_CH 1\_4mm\_TX2**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:0.989

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.779 \text{ S/m}$ ;  $\epsilon_r = 39.367$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.360 W/kg

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

Reference Value = 91.3 V/m; Power Drift = -0.02 dB

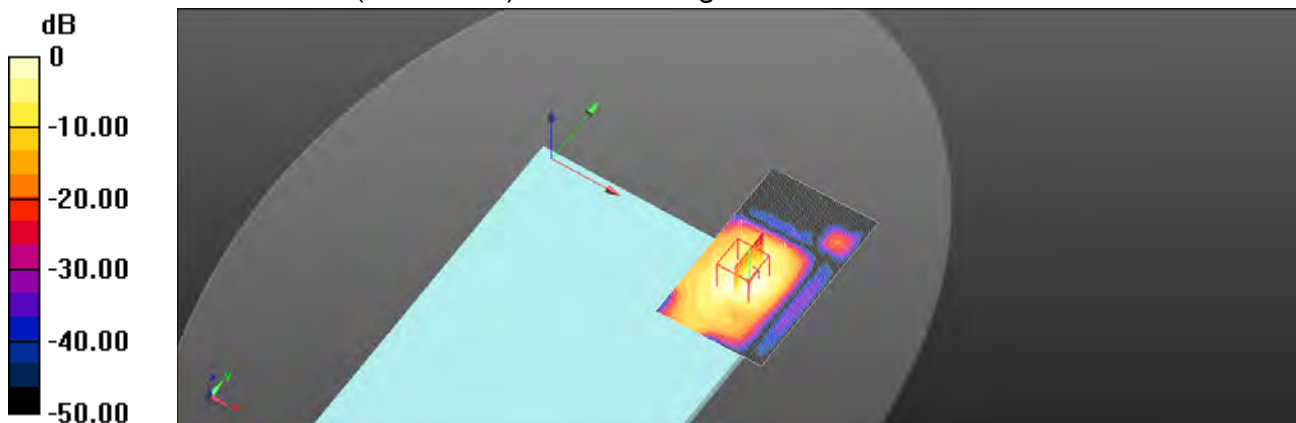
Peak SAR (extrapolated) = 0.495 W/kg

**SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.094 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 0.358 W/kg



0 dB = 0.358 W/kg = -4.46 dBW/kg

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**Report No. : E5/2021/80015**

**Bluetooth(GFSK)\_ Hotspot\_Back Surface\_CH 39\_0mm\_TX2**

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:0.768

Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.804$  S/m;  $\epsilon_r = 39.315$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 78.3 V/m; Power Drift = -0.03 dB

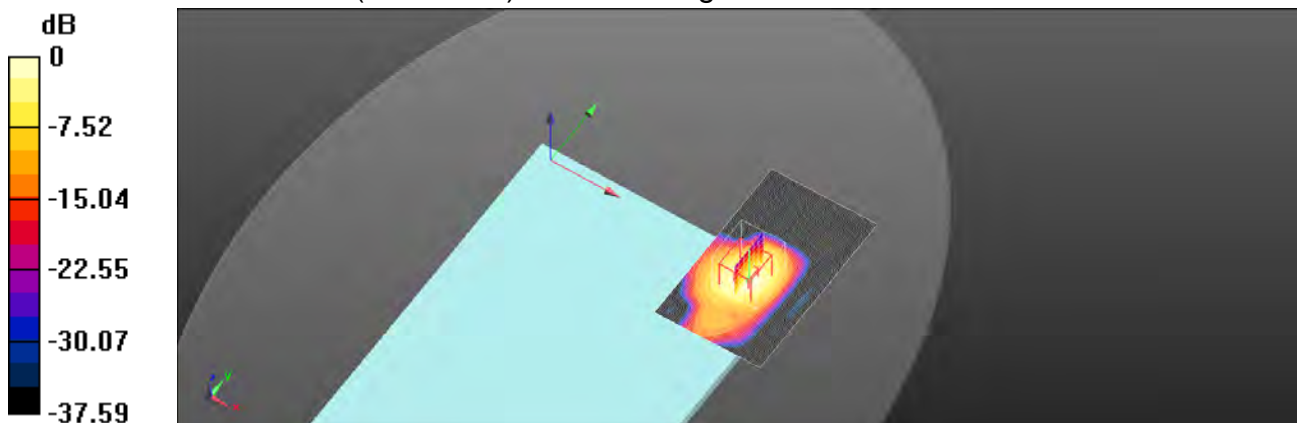
Peak SAR (extrapolated) = 0.815 W/kg

**SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.104 W/kg**

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

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

Maximum value of SAR (measured) = 0.575 W/kg



0 dB = 0.575 W/kg = -2.41 dBW/kg

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Date: 2021/9/5

**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.2G\_Hotspot\_Back Surface\_CH 50\_4mm\_TX2**

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.714$  S/m;  $\epsilon_r = 36.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.610 W/kg

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

Reference Value = 0.7460 V/m; Power Drift = 0.01 dB

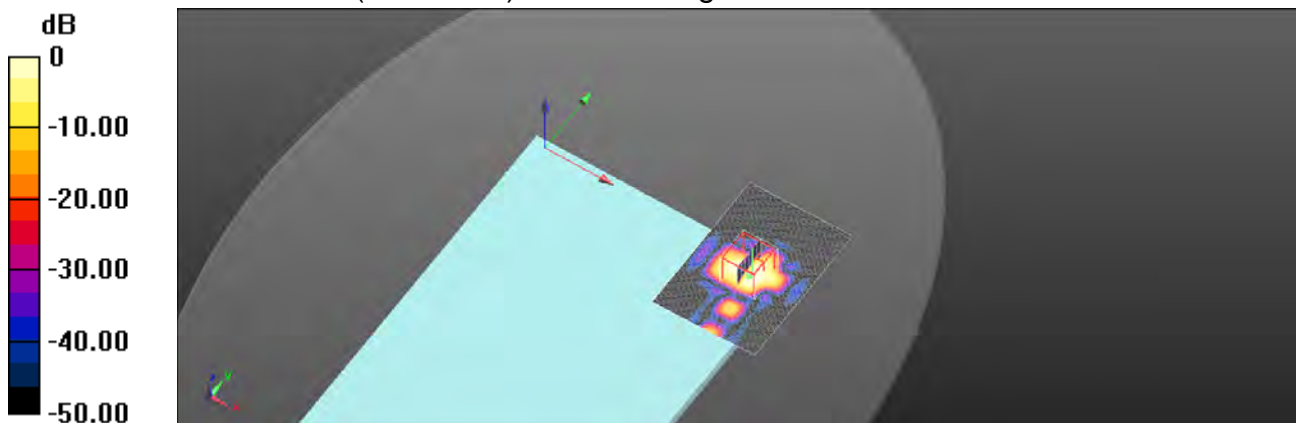
Peak SAR (extrapolated) = 0.616 W/kg

**SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.035 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.2%

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



0 dB = 0.276 W/kg = -5.59 dBW/kg

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Date: 2021/9/5

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.3G\_Hotspot\_Back Surface\_CH 58\_4mm\_TX2**

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.755$  S/m;  $\epsilon_r = 35.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.229 W/kg

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

Reference Value = 74.28 V/m; Power Drift = -0.04 dB

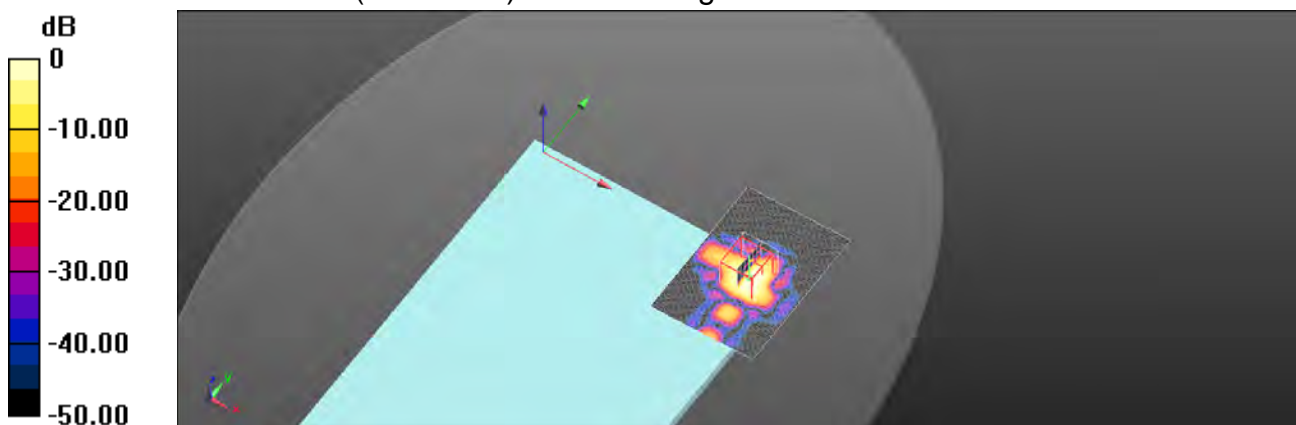
Peak SAR (extrapolated) = 0.731 W/kg

**SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.030 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

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

Maximum value of SAR (measured) = 0.247 W/kg



0 dB = 0.247 W/kg = -6.08 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.6G\_Body\_Back Surface\_CH 106\_4mm\_TX2**

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5530 \text{ MHz}$ ;  $\sigma = 5.003 \text{ S/m}$ ;  $\epsilon_r = 35.708$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.349 W/kg

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

Reference Value = 60.15 V/m; Power Drift = 0.05 dB

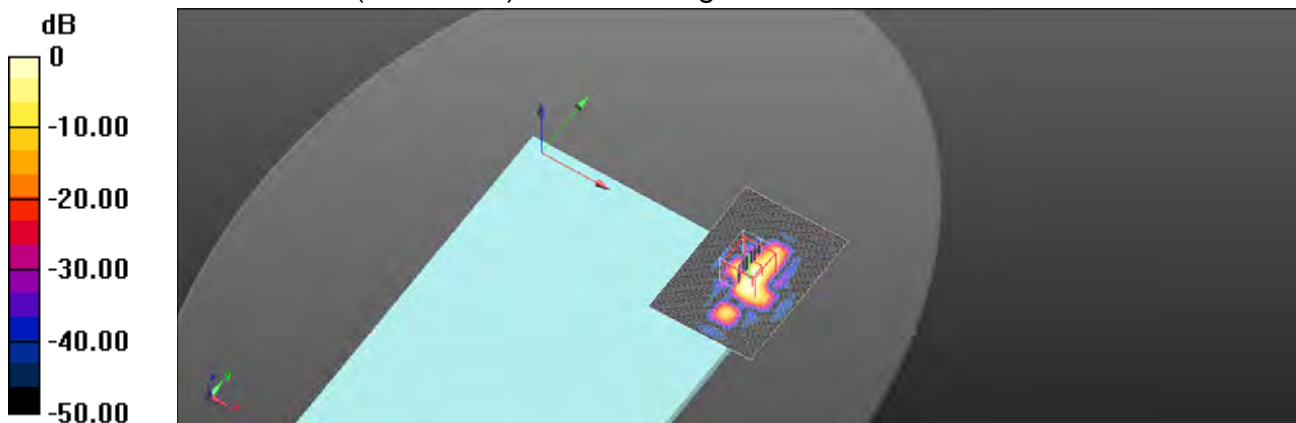
Peak SAR (extrapolated) = 0.533 W/kg

**SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.021 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.278 W/kg



0 dB = 0.278 W/kg = -5.56 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.6G\_Hotspot\_Back Surface\_CH 114\_4mm\_TX2**

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.044$  S/m;  $\epsilon_r = 35.662$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.330 W/kg

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

Reference Value = 2.065 V/m; Power Drift = -0.02 dB

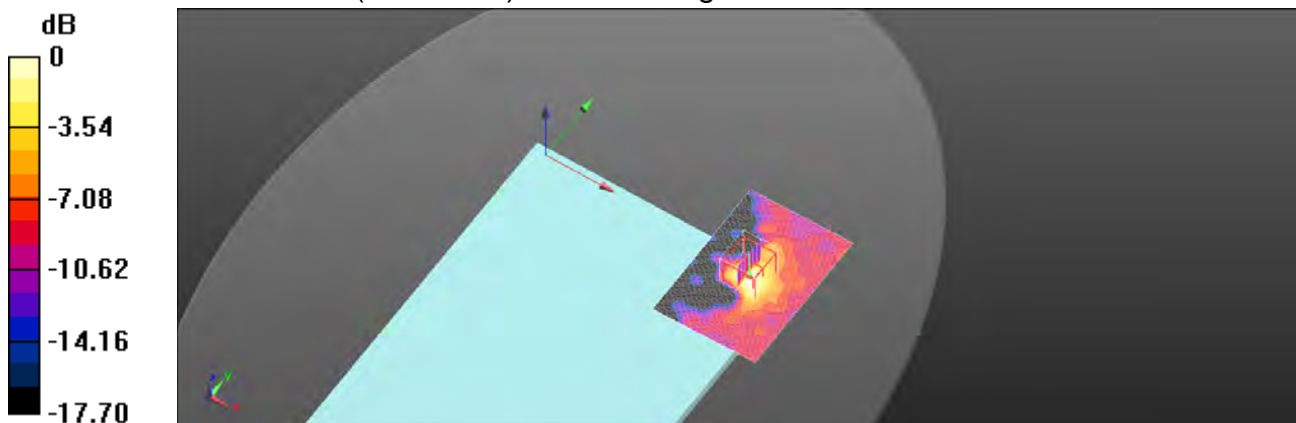
Peak SAR (extrapolated) = 0.586 W/kg

**SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.064 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

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

Maximum value of SAR (measured) = 0.309 W/kg



0 dB = 0.309 W/kg = -5.11 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.8G\_Hotspot\_Back Surface\_CH 155\_4mm\_TX2**

Communication System: WLAN ; Frequency: 5775 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.428$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.208 W/kg

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

Reference Value = 1.737 V/m; Power Drift = 0.02 dB

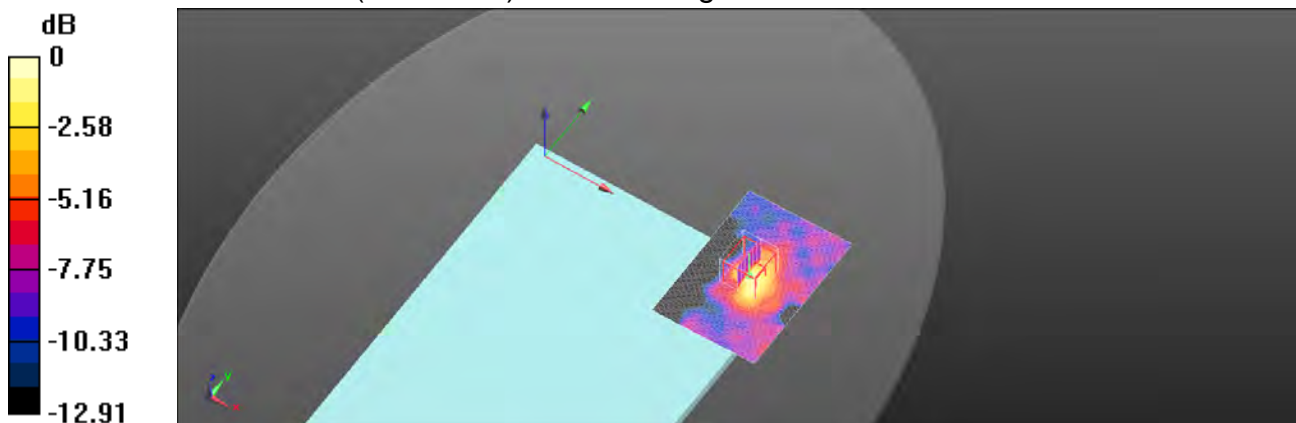
Peak SAR (extrapolated) = 0.451 W/kg

**SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.062 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 0.233 W/kg



0 dB = 0.233 W/kg = -6.32 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11b\_Hotspot\_Top Curve Edge\_CH 1\_0mm\_TX1**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:0.989

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.779 \text{ S/m}$ ;  $\epsilon_r = 39.367$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.184 W/kg

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

Reference Value = 2.969 V/m; Power Drift = 0.01 dB

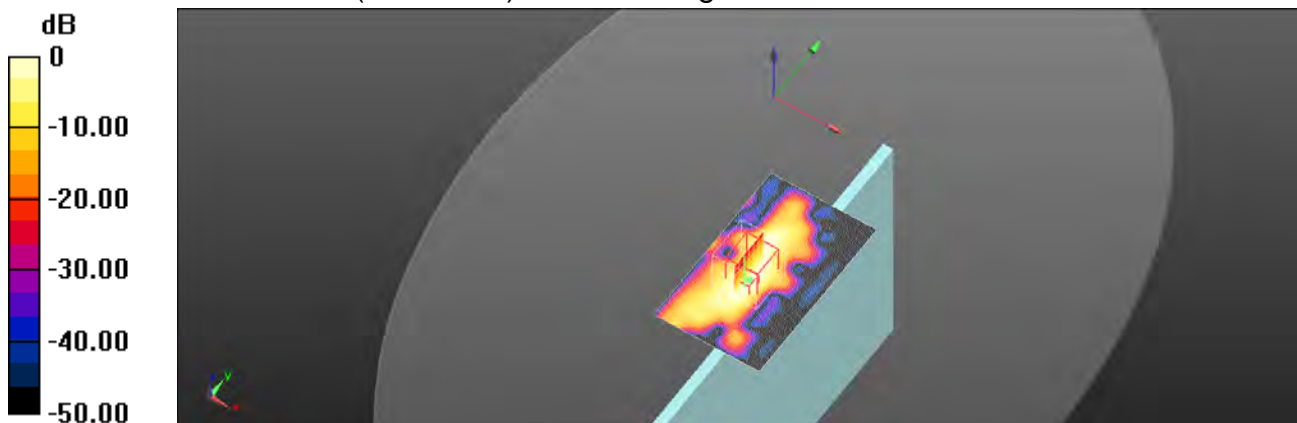
Peak SAR (extrapolated) = 0.259 W/kg

**SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.032 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

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

Maximum value of SAR (measured) = 0.147 W/kg



0 dB = 0.147 W/kg = -8.33 dBW/kg

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Date: 2021/9/5

**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.2G \_Hotspot\_Top Edge\_CH 50\_0mm\_TX1**

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.714$  S/m;  $\epsilon_r = 36.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.257 V/m; Power Drift = 0.03 dB

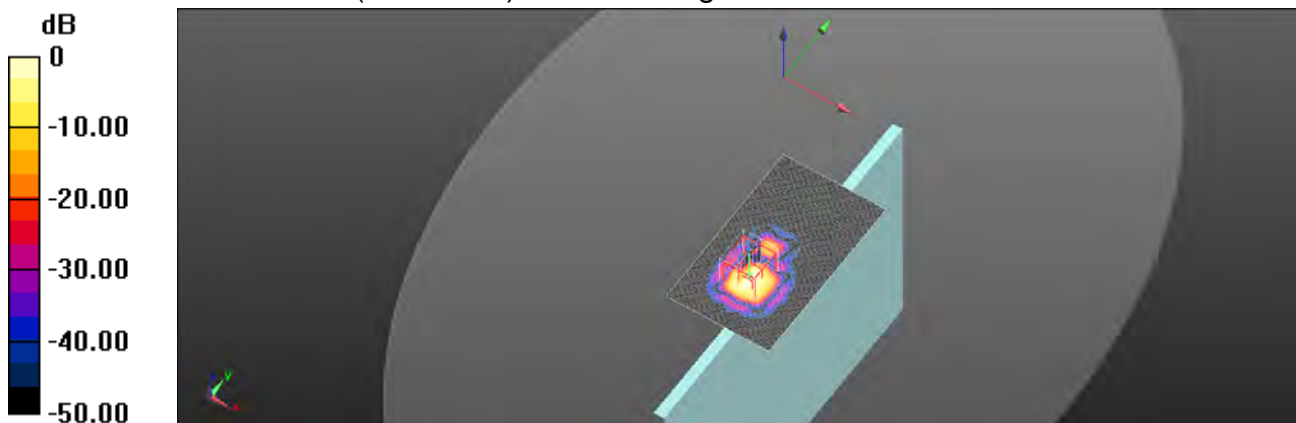
Peak SAR (extrapolated) = 0.598 W/kg

**SAR(1 g) = 0.120 W/kg; SAR(10 g) = 0.026 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 0.303 W/kg



0 dB = 0.303 W/kg = -5.18 dBW/kg

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Date: 2021/9/5

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.3G \_Hotspot\_Top Edge\_CH 58\_0mm\_TX1**

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.755$  S/m;  $\epsilon_r = 35.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.673 W/kg

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

Reference Value = 1.266 V/m; Power Drift = 0.04 dB

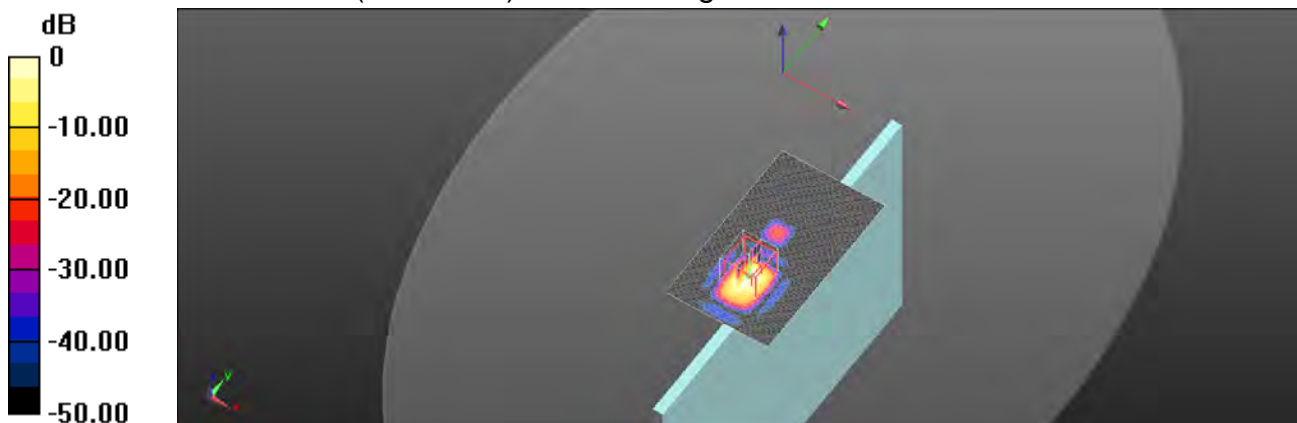
Peak SAR (extrapolated) = 0.645 W/kg

**SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.028 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.5 mm

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

Maximum value of SAR (measured) = 0.324 W/kg



0 dB = 0.324 W/kg = -4.90 dBW/kg

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Date: 2021/9/6

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.6G \_Hotspot\_Top Edge\_CH 106\_0mm\_TX1**

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5530 \text{ MHz}$ ;  $\sigma = 5.003 \text{ S/m}$ ;  $\epsilon_r = 35.708$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.701 W/kg

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

Reference Value = 1.005 V/m; Power Drift = -0.05 dB

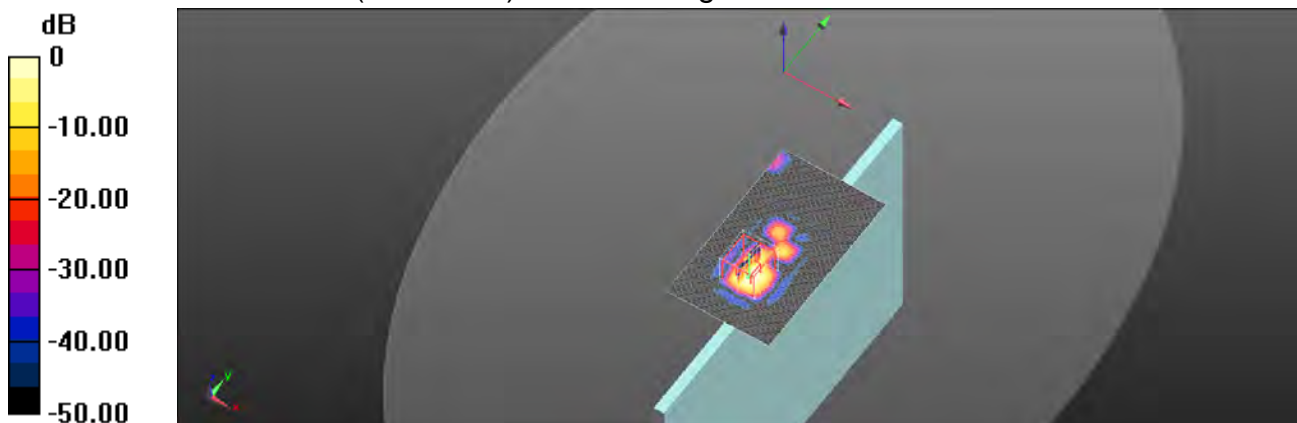
Peak SAR (extrapolated) = 0.738 W/kg

**SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.026 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.317 W/kg



0 dB = 0.317 W/kg = -4.99 dBW/kg

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Date: 2021/9/6

**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.6G \_Hotspot\_Top Edge\_CH 114\_0mm\_TX1**

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.044$  S/m;  $\epsilon_r = 35.662$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.568 W/kg

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

Reference Value = 1.923 V/m; Power Drift = -0.01 dB

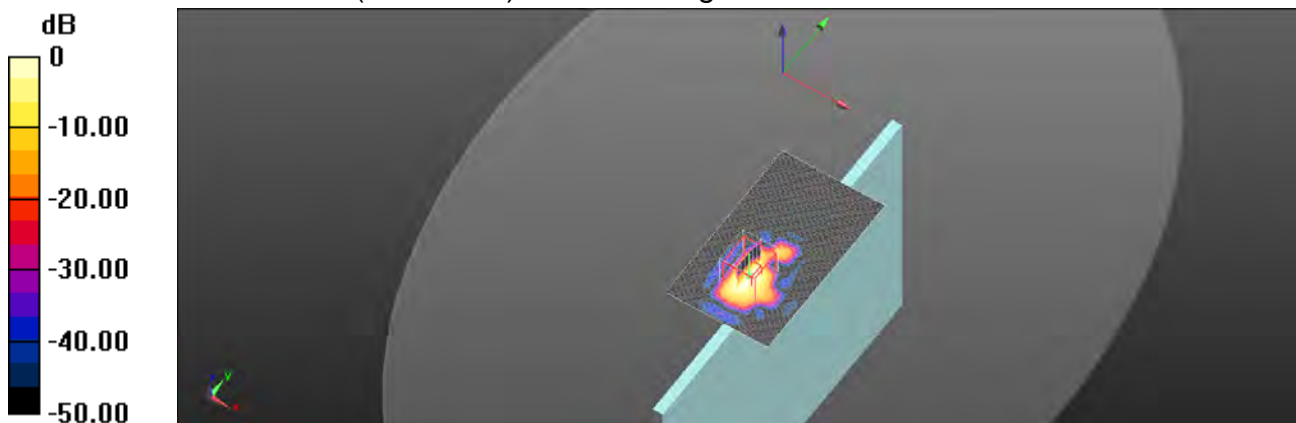
Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.033 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 0.375 W/kg



0 dB = 0.375 W/kg = -4.26 dBW/kg

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Date: 2021/9/7

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.8G \_Hotspot\_Top Edge\_CH 155\_0mm\_TX1**

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.428$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.426 W/kg

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

Reference Value = 2.240 V/m; Power Drift = 0.01 dB

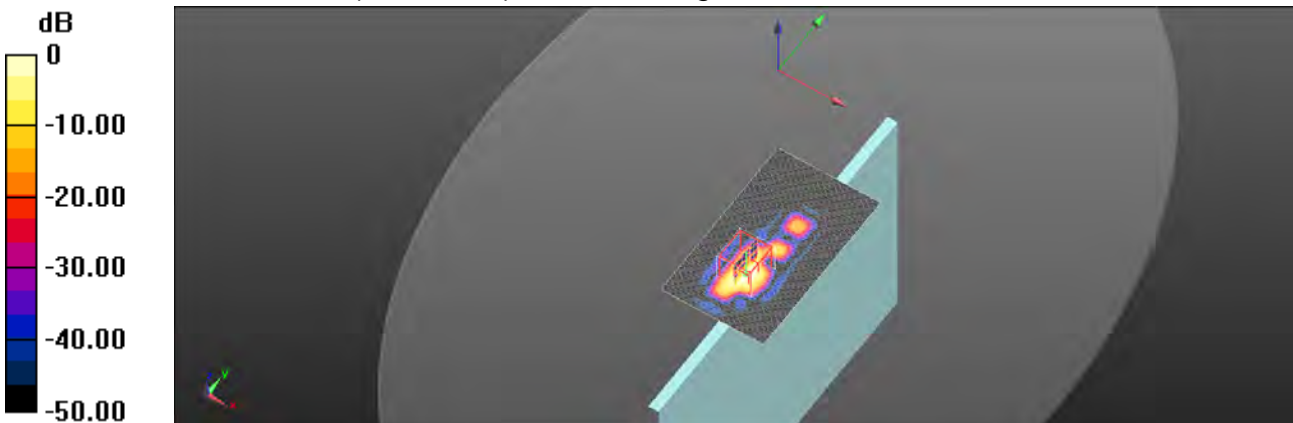
Peak SAR (extrapolated) = 0.621 W/kg

**SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.018 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51%

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



0 dB = 0.224 W/kg = -6.50 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11b\_Hotspot\_Back Surface\_CH 1\_0mm\_TX2**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:0.989

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.779 \text{ S/m}$ ;  $\epsilon_r = 39.367$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.325 W/kg

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

Reference Value = 98.3 V/m; Power Drift = 0.02 dB

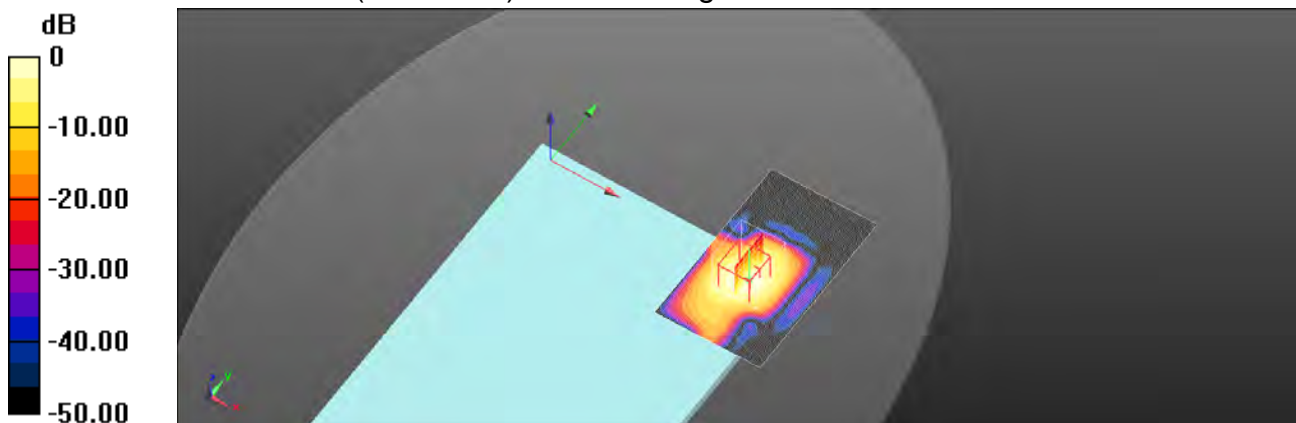
Peak SAR (extrapolated) = 0.467 W/kg

**SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.080 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56%

Maximum value of SAR (measured) = 0.329 W/kg



0 dB = 0.329 W/kg = -4.82 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.2G\_Hotspot\_Back Surface\_CH 50\_0mm\_TX2**

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.714$  S/m;  $\epsilon_r = 36.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.234 W/kg

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

Reference Value = 0.7456 V/m; Power Drift = -0.01 dB

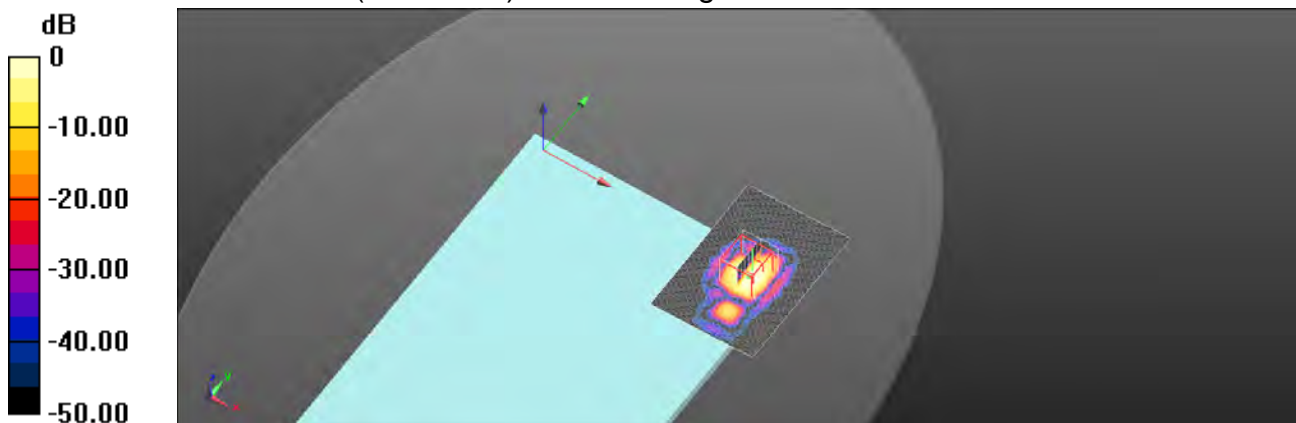
Peak SAR (extrapolated) = 0.632 W/kg

**SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.027 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.4 mm

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

Maximum value of SAR (measured) = 0.267 W/kg



0 dB = 0.267 W/kg = -5.73 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.3G\_Hotspot\_Back Surface\_CH 58\_0mm\_TX2**

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.755 \text{ S/m}$ ;  $\epsilon_r = 35.982$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.323 W/kg

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

Reference Value = 73.28 V/m; Power Drift = 0.04 dB

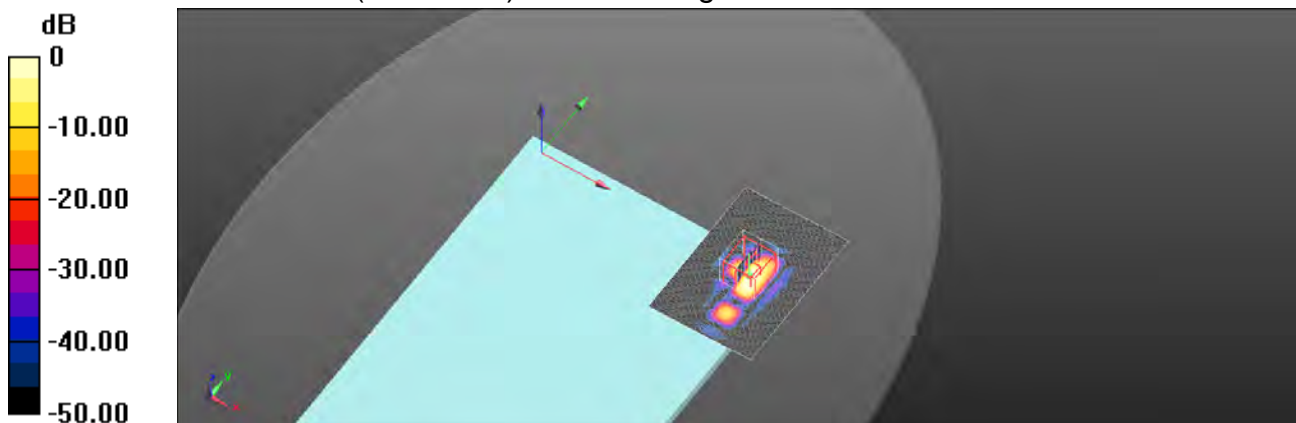
Peak SAR (extrapolated) = 0.599 W/kg

**SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.024 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 0.240 W/kg



0 dB = 0.240 W/kg = -6.19 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.6G\_Hotspot\_Back Surface\_CH 106\_0mm\_TX2**

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5530$  MHz;  $\sigma = 5.003$  S/m;  $\epsilon_r = 35.708$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.349 W/kg

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

Reference Value = 1.4841 V/m; Power Drift = 0.02 dB

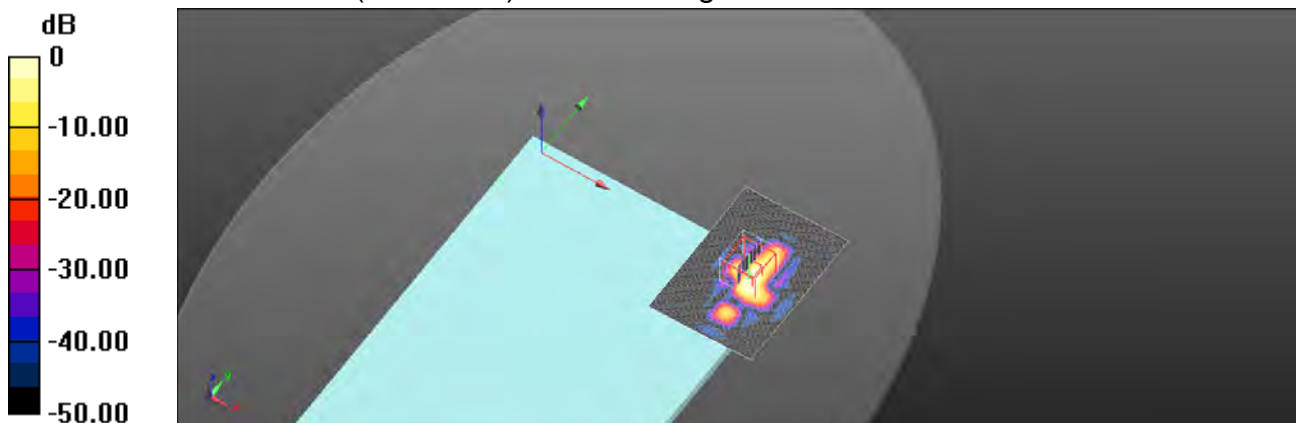
Peak SAR (extrapolated) = 0.533 W/kg

**SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.027 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.278 W/kg



0 dB = 0.278 W/kg = -5.56 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.6G\_Hotspot\_Back Surface\_CH 114\_0mm\_TX2**

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.044$  S/m;  $\epsilon_r = 35.662$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.525 W/kg

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

Reference Value = 1.617 V/m; Power Drift = -0.02 dB

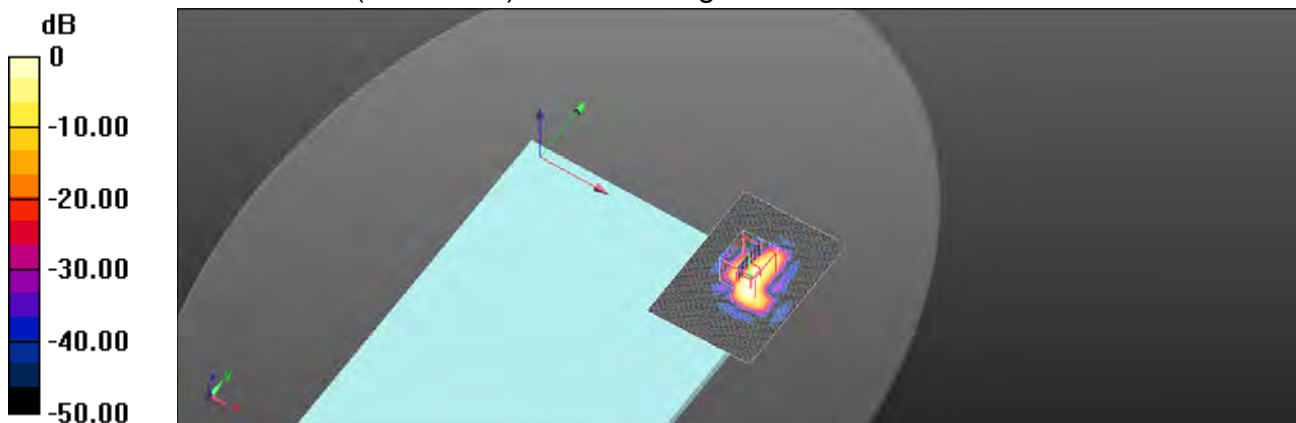
Peak SAR (extrapolated) = 0.697 W/kg

**SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.031 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 0.293 W/kg



0 dB = 0.293 W/kg = -5.33 dBW/kg

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Date: 2021/9/7

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.8G\_Hotspot\_Back Surface\_CH 155\_0mm\_TX2**

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.428$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.180 W/kg

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

Reference Value = 3.141 V/m; Power Drift = 0.05 dB

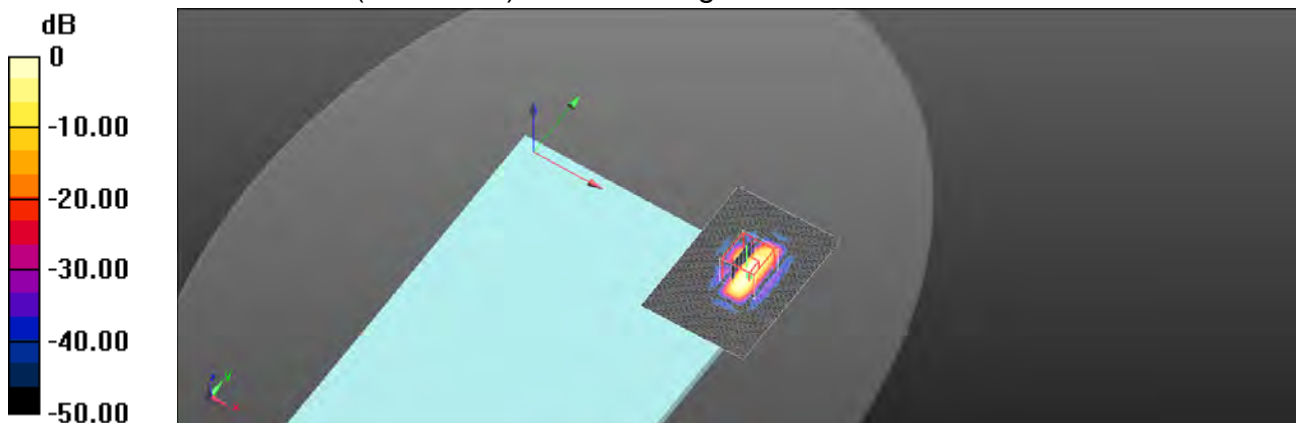
Peak SAR (extrapolated) = 0.495 W/kg

**SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.021 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.7 mm

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

Maximum value of SAR (measured) = 0.227 W/kg



0 dB = 0.227 W/kg = -6.44 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11b\_Body\_Back Surface\_CH 11\_0mm\_TX1**

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:0.989

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.822 \text{ S/m}$ ;  $\epsilon_r = 39.284$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 1.395 V/m; Power Drift = 0.02 dB

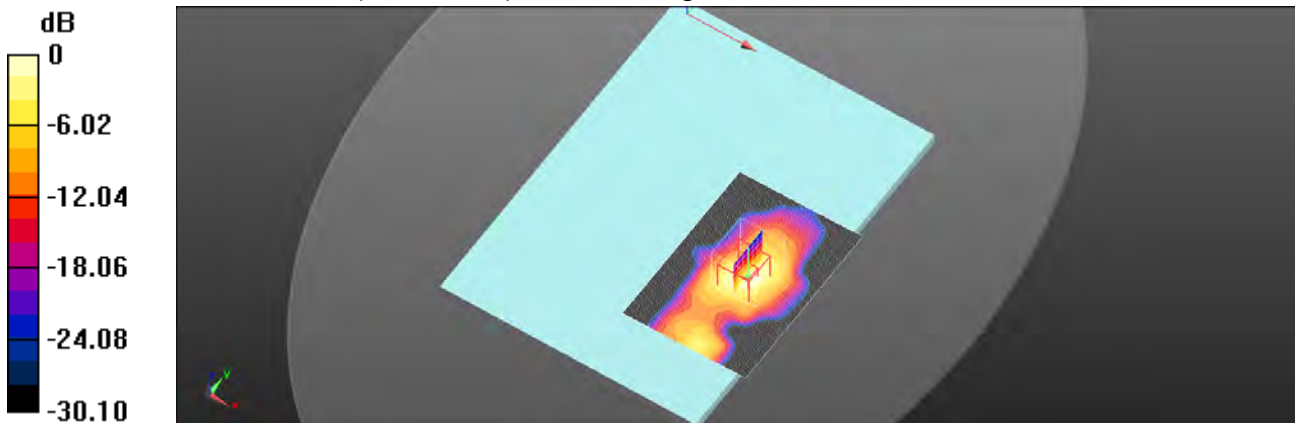
Peak SAR (extrapolated) = 2.34 W/kg

**SAR(1 g) = 0.792 W/kg; SAR(10 g) = 0.318 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

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Date: 2021/9/9

**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.2G\_Body\_Back Surface\_CH 46\_0mm\_TX1**

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.694 \text{ S/m}$ ;  $\epsilon_r = 36.05$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x111x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.984 W/kg

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

Reference Value = 1.442 V/m; Power Drift = 0.03 dB

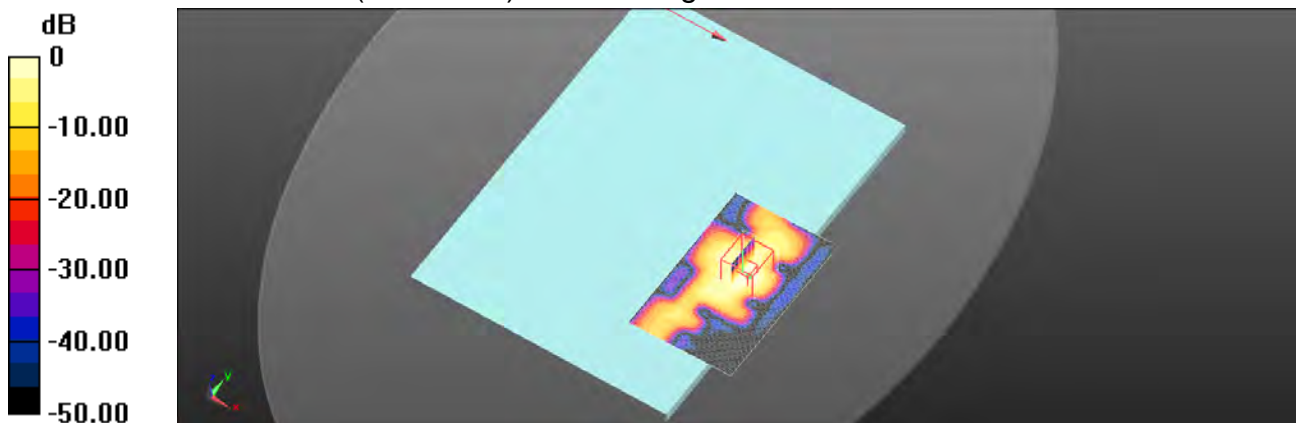
Peak SAR (extrapolated) = 3.68 W/kg

**SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.146 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 52.9%

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



0 dB = 1.21 W/kg = 0.84 dBW/kg

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Date: 2021/9/10

**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.3G\_Body\_Back Surface\_CH 62\_0mm\_TX1**

Communication System: WLAN; Frequency: 5310 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.776$  S/m;  $\epsilon_r = 35.959$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.235 V/m; Power Drift = 0.02 dB

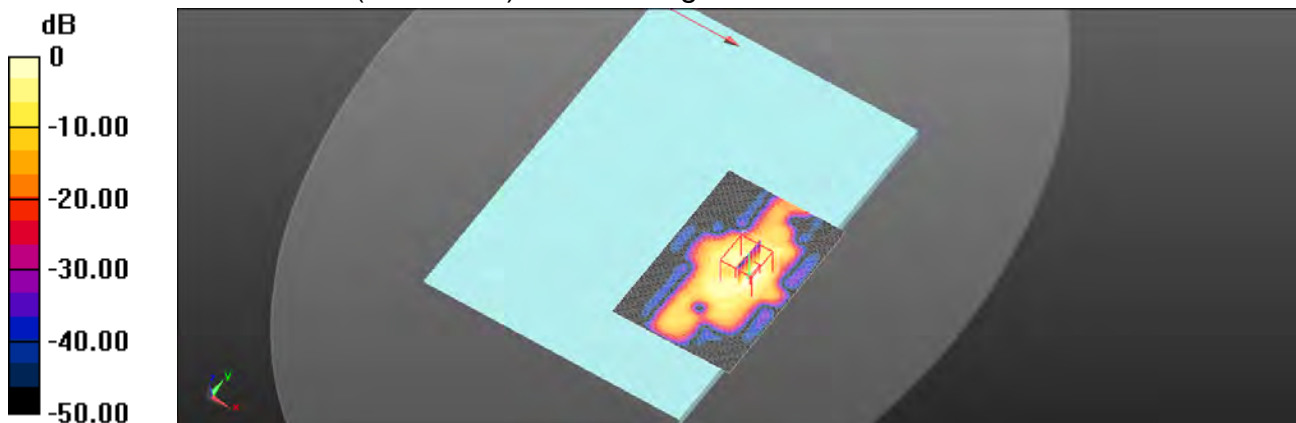
Peak SAR (extrapolated) = 3.96 W/kg

**SAR(1 g) = 0.715 W/kg; SAR(10 g) = 0.192 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.09 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.6G\_Body\_Back Surface\_CH 106\_0mm\_TX1**

Communication System:WLAN; Frequency: 5530 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5530 \text{ MHz}$ ;  $\sigma = 5.003 \text{ S/m}$ ;  $\epsilon_r = 35.708$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x111x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

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

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

Reference Value = 1.424 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.31 W/kg

**SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.157 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.6 mm

Ratio of SAR at M2 to SAR at M1 = 52%

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

**Zoom Scan (7x7x12)/Cube 1:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.241 V/m; Power Drift = 0.01 dB

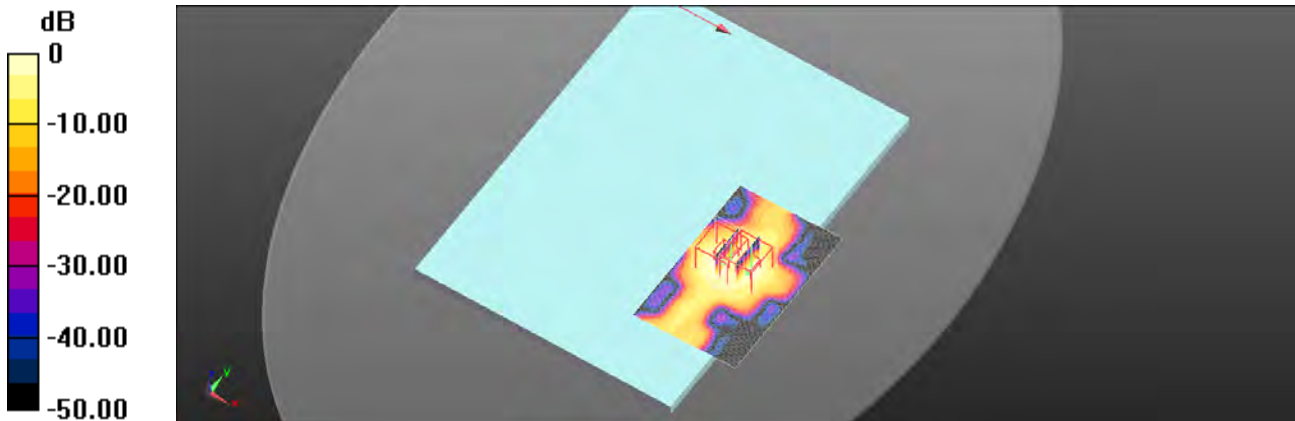
Peak SAR (extrapolated) = 3.16 W/kg

**SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.164 W/kg**

Smallest distance from peaks to all points 3 dB below = 5 mm

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.8G\_Body\_Back Surface\_CH 159\_0mm\_TX1**

Communication System:WLAN; Frequency: 5795 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5795$  MHz;  $\sigma = 5.274$  S/m;  $\epsilon_r = 35.405$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x111x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

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

Reference Value = 1.118 V/m; Power Drift = 0.05 dB

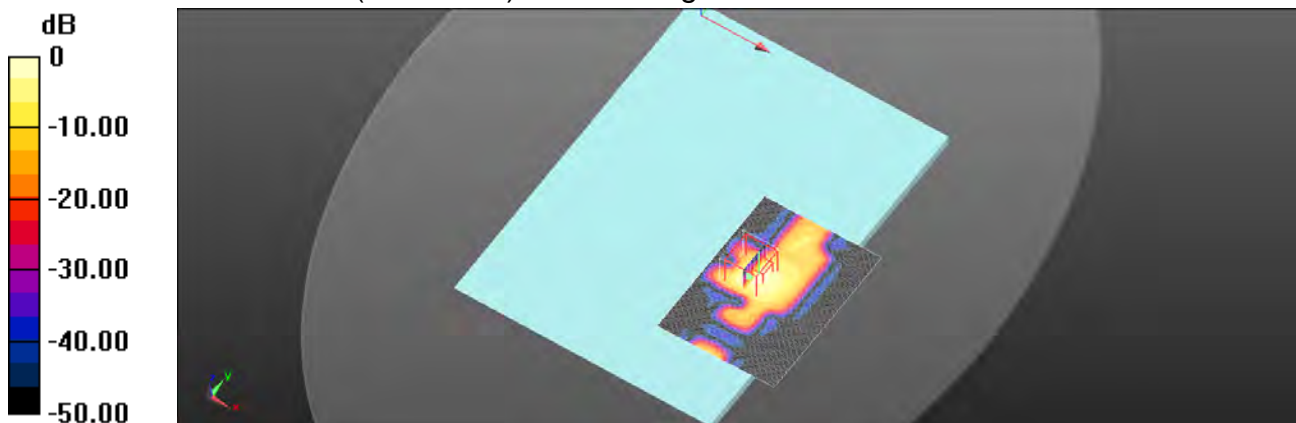
Peak SAR (extrapolated) = 5.14 W/kg

**SAR(1 g) = 0.767 W/kg; SAR(10 g) = 0.177 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

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



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

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.8G\_Body\_Back Surface\_CH 155\_0mm\_TX1**

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.428$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x111x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.011 V/m; Power Drift = 0.03 dB

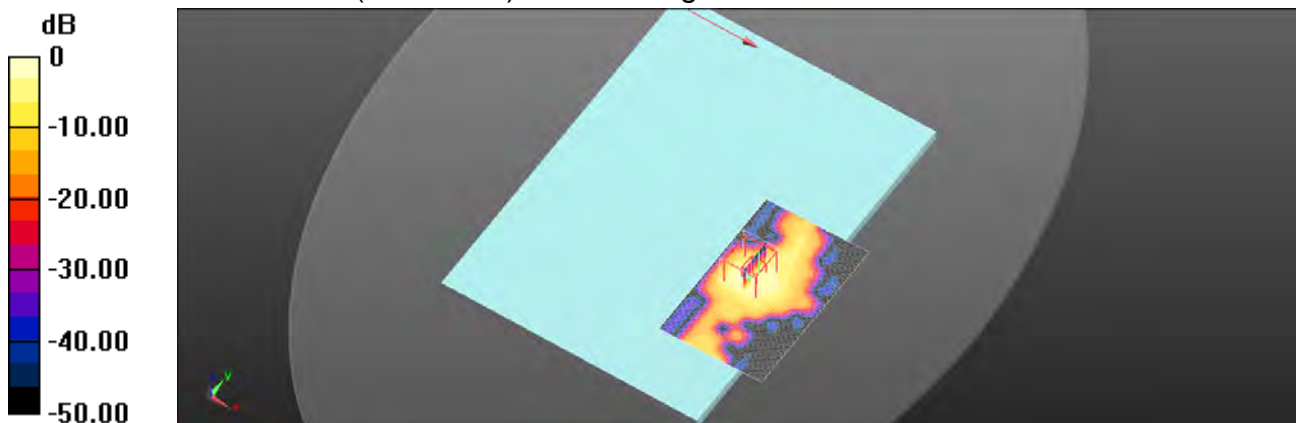
Peak SAR (extrapolated) = 4.52 W/kg

**SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.165 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.5%

Maximum value of SAR (measured) = 1.64 W/kg



0 dB = 1.64 W/kg = 2.16 dBW/kg

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Date: 2021/9/8

**Report No. : E5/2021/80015**

**WLAN 802.11b\_Body\_Back Surface\_CH 1\_4mm\_TX2**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:0.989

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.779 \text{ S/m}$ ;  $\epsilon_r = 39.367$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

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

Reference Value = 3.740 V/m; Power Drift = -0.06 dB

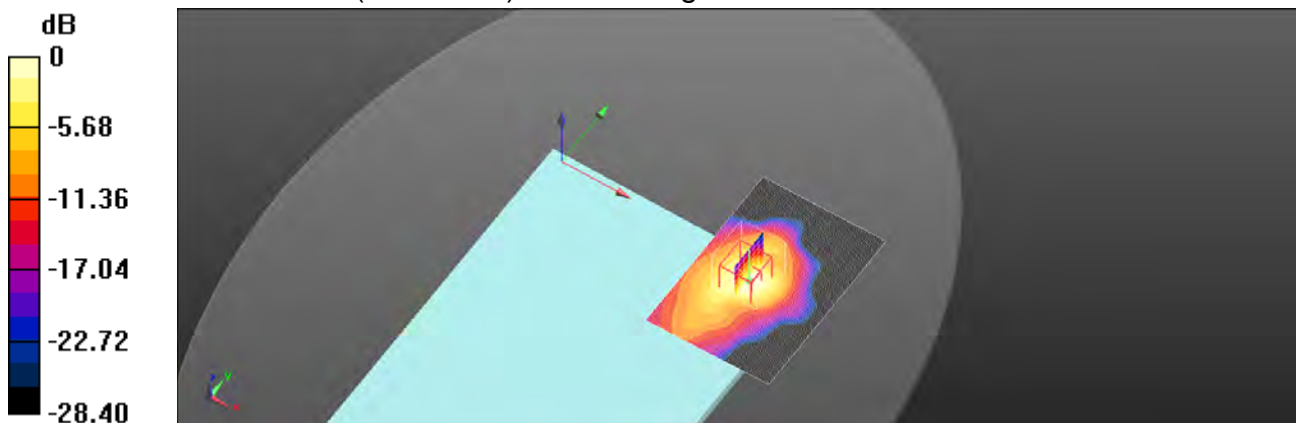
Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.810 W/kg; SAR(10 g) = 0.387 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg = 1.16 dBW/kg

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**Report No. : E5/2021/80015**

**Bluetooth(GFSK)\_Body\_Back Surface\_CH 39\_0mm\_TX2**

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:0.768

Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.804 \text{ S/m}$ ;  $\epsilon_r = 39.315$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.784 W/kg

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

Reference Value = 1.625 V/m; Power Drift = 0.03 dB

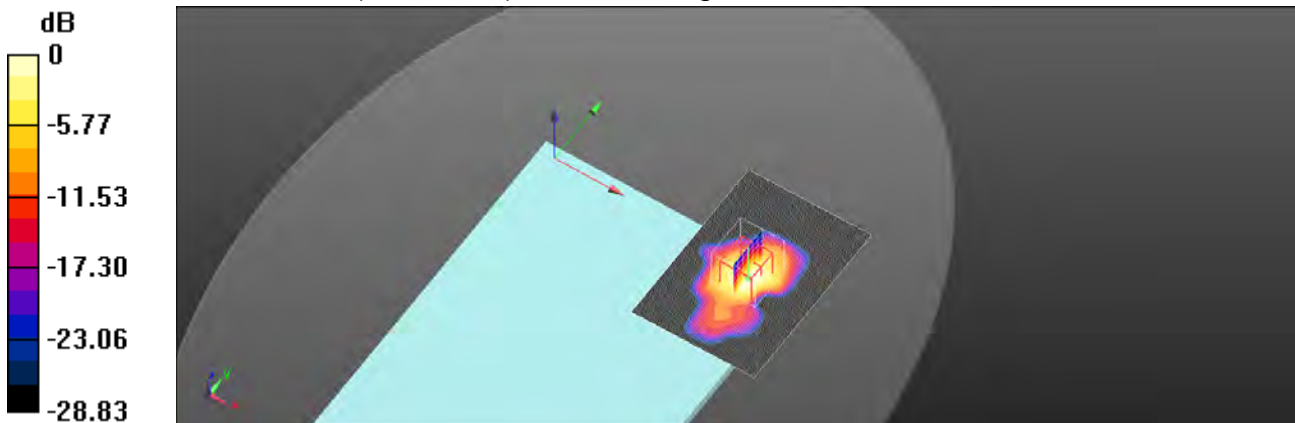
Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.171 W/kg**

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

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

Maximum value of SAR (measured) = 0.717 W/kg



0 dB = 0.717 W/kg = -1.45 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11a 5.2G\_Body\_Back Surface\_CH 40\_4mm\_TX2**

Communication System: WLAN; Frequency: 5200 MHz; Duty Cycle: 1:0.95

Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 4.663 \text{ S/m}$ ;  $\epsilon_r = 36.085$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.75 W/kg

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

Reference Value = 1.635 V/m; Power Drift = 0.01 dB

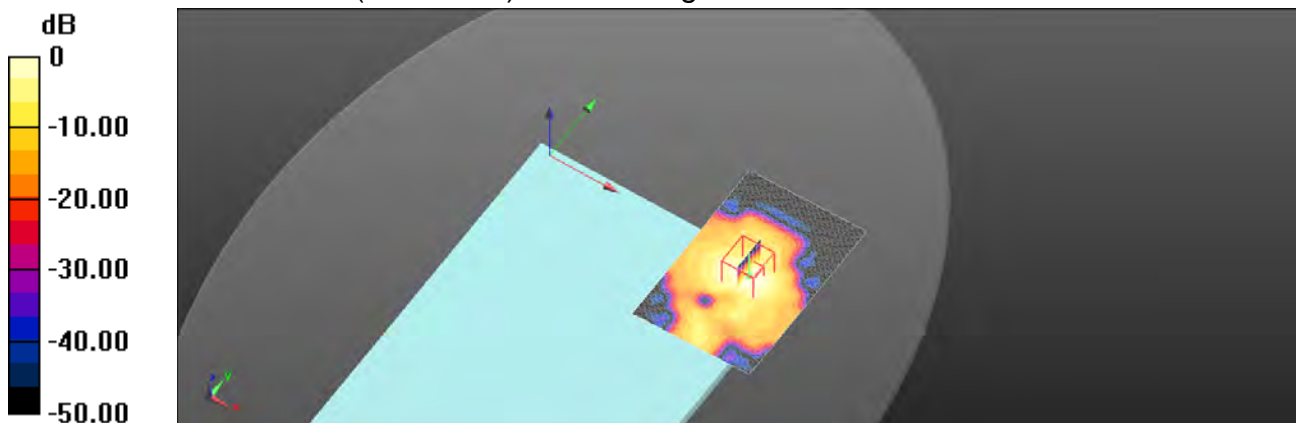
Peak SAR (extrapolated) = 3.64 W/kg

**SAR(1 g) = 0.842 W/kg; SAR(10 g) = 0.275 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 1.70 W/kg



0 dB = 1.70 W/kg = 2.29 dBW/kg

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Date: 2021/9/9

**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.2G\_Body\_Back Surface\_CH 46\_4mm\_TX2**

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.694 \text{ S/m}$ ;  $\epsilon_r = 36.05$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

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

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

Reference Value = 1.454 V/m; Power Drift = 0.03 dB

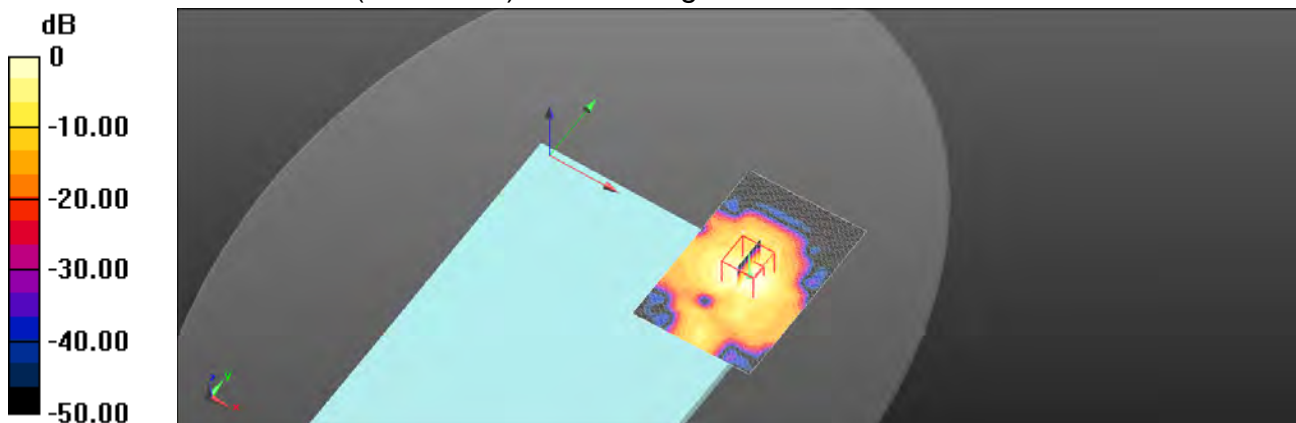
Peak SAR (extrapolated) = 3.69 W/kg

**SAR(1 g) = 0.885 W/kg; SAR(10 g) = 0.290 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

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



0 dB = 1.80 W/kg = 2.56 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11a 5.3G\_Body\_Back Surface\_CH 60\_4mm\_TX2**

Communication System: WLAN; Frequency: 5300 MHz; Duty Cycle: 1:0.95

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 4.766 \text{ S/m}$ ;  $\epsilon_r = 35.97$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.63 W/kg

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

Reference Value = 0.09100 V/m; Power Drift = -0.05 dB

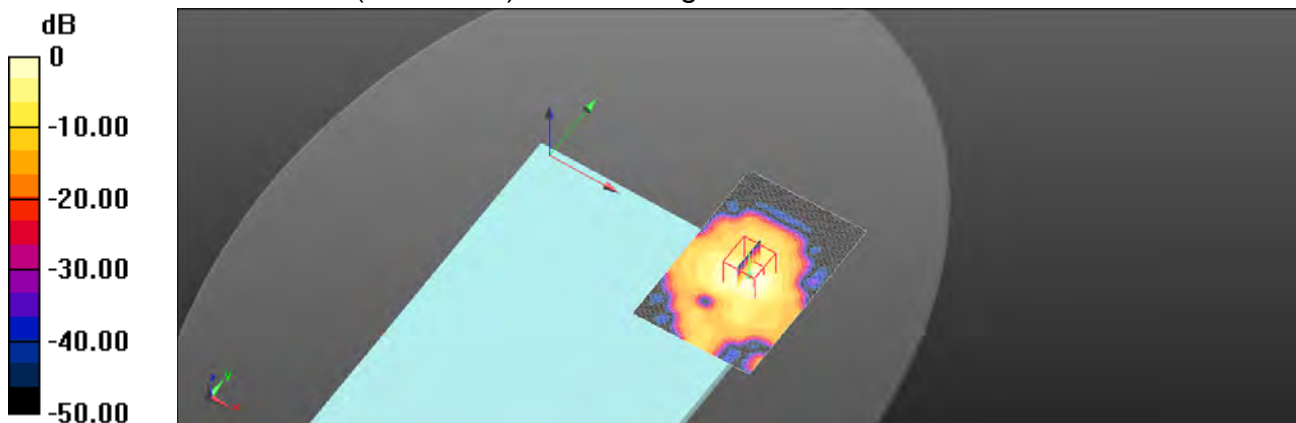
Peak SAR (extrapolated) = 3.27 W/kg

**SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.256 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg = 1.97 dBW/kg

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Date: 2021/9/10

**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.3G\_Body\_Back Surface\_CH 54\_4mm\_TX2**

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5270 \text{ MHz}$ ;  $\sigma = 4.735 \text{ S/m}$ ;  $\epsilon_r = 36.005$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.74 W/kg

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

Reference Value = 0.9695 V/m; Power Drift = 0.04 dB

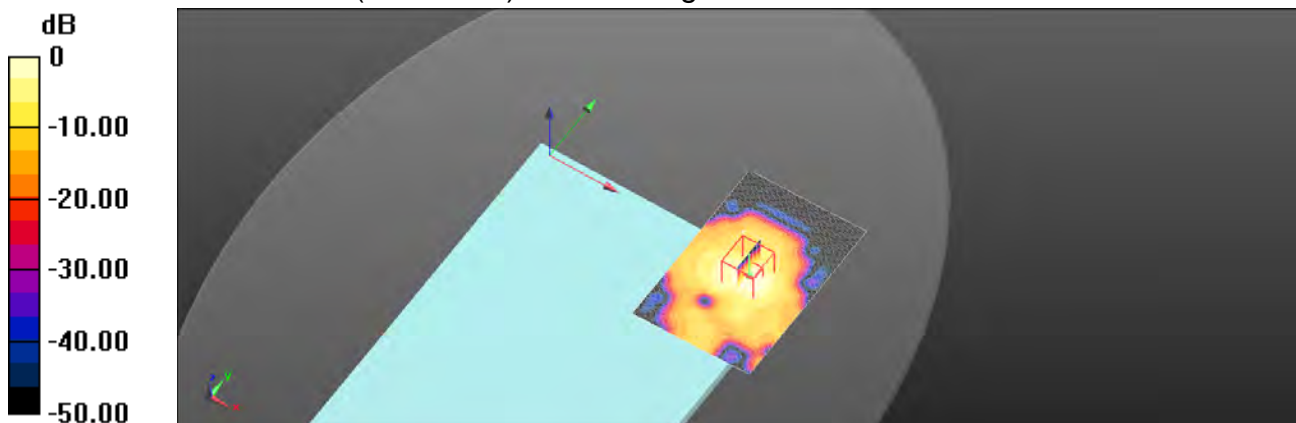
Peak SAR (extrapolated) = 3.47 W/kg

**SAR(1 g) = 0.875 W/kg; SAR(10 g) = 0.277 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 1.68 W/kg



0 dB = 1.68 W/kg = 2.26 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.6G\_Body\_Back Surface\_CH 110\_4mm\_TX2**

Communication System: WLAN; Frequency: 5550 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5550$  MHz;  $\sigma = 5.023$  S/m;  $\epsilon_r = 35.685$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** 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 = 0.8587 V/m; Power Drift = 0.05 dB

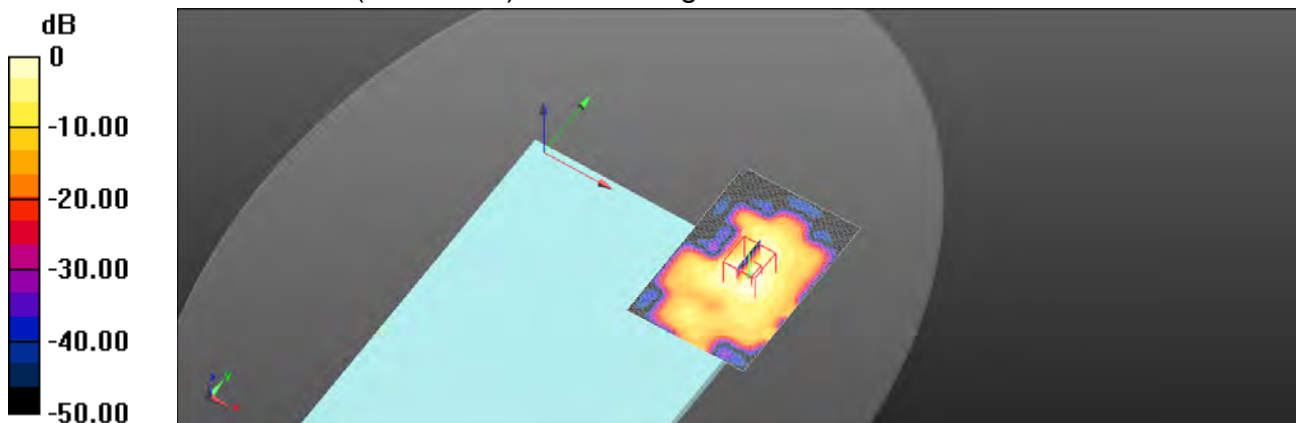
Peak SAR (extrapolated) = 2.85 W/kg

**SAR(1 g) = 0.798 W/kg; SAR(10 g) = 0.227 W/kg**

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 53.1%

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



0 dB = 1.33 W/kg = 1.24 dBW/kg

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Date: 2021/9/11

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.6G\_Body\_Back Surface\_CH 138\_4mm\_TX2**

Communication System:WLAN; Frequency: 5690 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5690$  MHz;  $\sigma = 5.166$  S/m;  $\epsilon_r = 35.525$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

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

Reference Value = 1.158 V/m; Power Drift = 0.03 dB

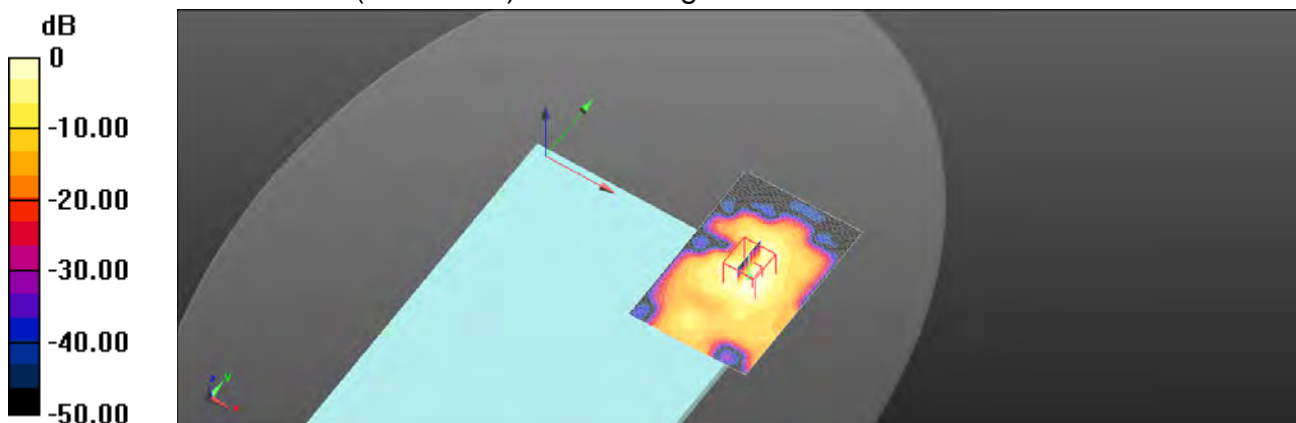
Peak SAR (extrapolated) = 3.86 W/kg

**SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.292 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 1.77 W/kg



0 dB = 1.77 W/kg = 2.47 dBW/kg

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Date: 2021/9/12

**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.8G\_Body\_Back Surface\_CH 151\_4mm\_Tx2**

Communication System: WLAN; Frequency: 5755 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 5.233 \text{ S/m}$ ;  $\epsilon_r = 35.45$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

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

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

Reference Value = 1.112 V/m; Power Drift = 0.01 dB

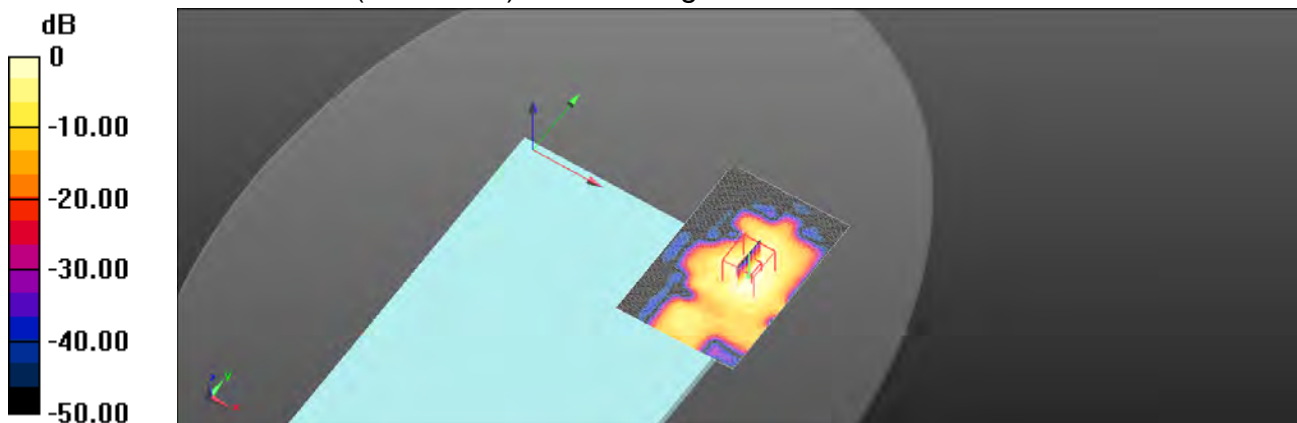
Peak SAR (extrapolated) = 3.71 W/kg

**SAR(1 g) = 0.850 W/kg; SAR(10 g) = 0.274 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

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

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



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

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.8G\_Body\_Back Surface\_CH 155\_4mm\_TX2**

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.428$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.214 V/m; Power Drift = 0.03 dB

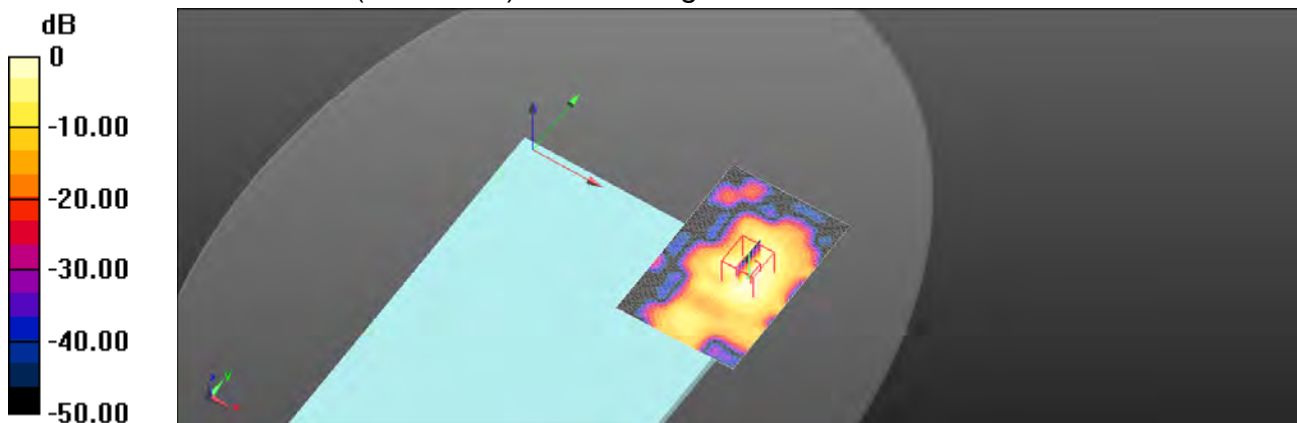
Peak SAR (extrapolated) = 4.51 W/kg

**SAR(1 g) = 0.898 W/kg; SAR(10 g) = 0.319 W/kg**

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

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



0 dB = 1.98 W/kg = 2.96 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11b\_Body\_Top Curve Edge\_CH 1\_0mm\_TX1**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:0.989

Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.779 \text{ S/m}$ ;  $\epsilon_r = 39.367$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$

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

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

Reference Value = 10.36 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.05 W/kg

**SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.292 W/kg**

Smallest distance from peaks to all points 3 dB below = 5 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

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

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

Reference Value = 10.36 V/m; Power Drift = 0.05 dB

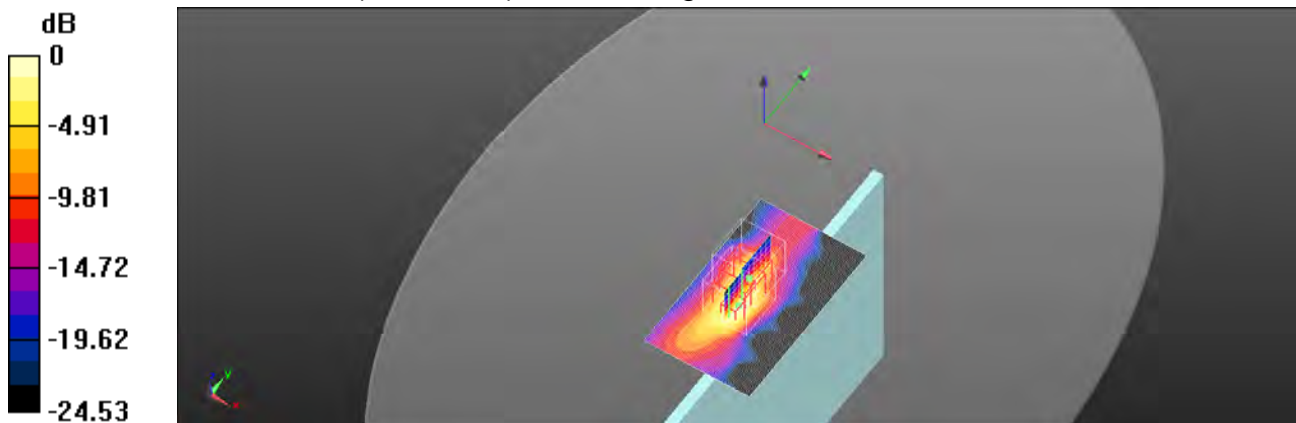
Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.651 W/kg; SAR(10 g) = 0.285 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.6%

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



0 dB = 1.24 W/kg = 0.92 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11 ac(80M) 5.2G\_Body\_Top Edge\_CH 42\_0mm\_TX1**

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5210 \text{ MHz}$ ;  $\sigma = 4.673 \text{ S/m}$ ;  $\epsilon_r = 36.073$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 5.402 V/m; Power Drift = -0.04 dB

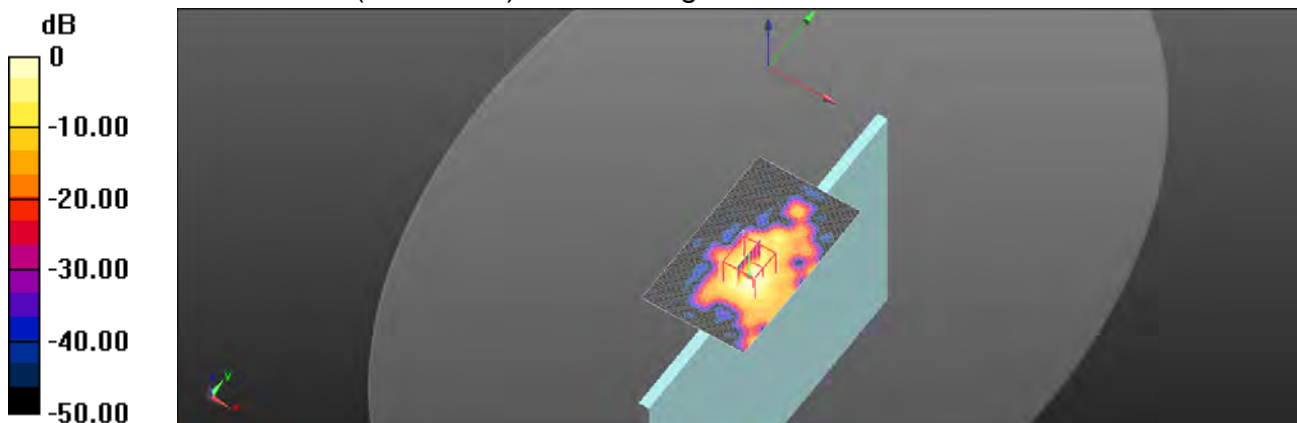
Peak SAR (extrapolated) = 2.93 W/kg

**SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.138 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.4%

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



0 dB = 1.30 W/kg = 1.14 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.2G\_Body\_Top Edge\_CH 50\_0mm\_TX1**

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.714$  S/m;  $\epsilon_r = 36.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.32 W/kg

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

Reference Value = 5.204 V/m; Power Drift = -0.06 dB

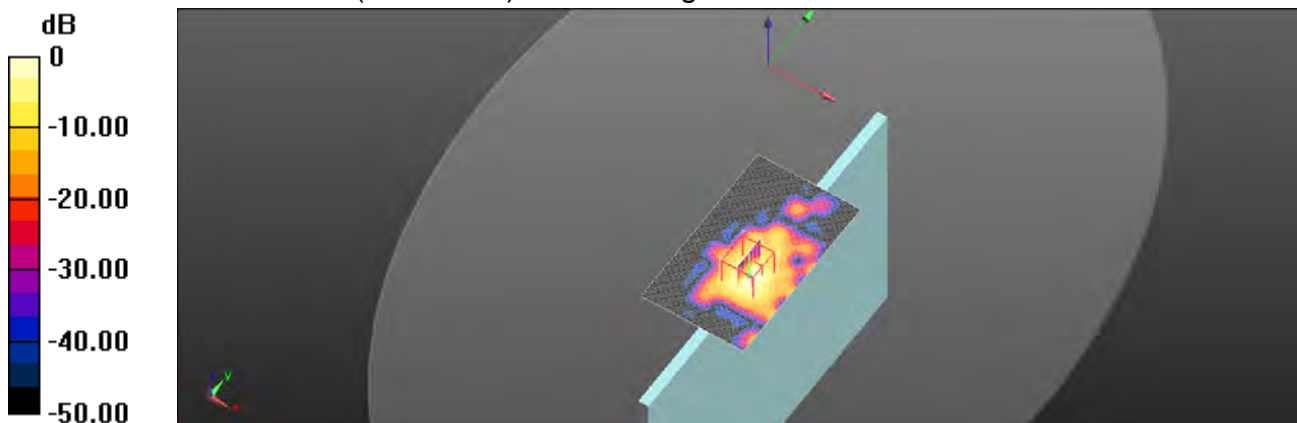
Peak SAR (extrapolated) = 3.72 W/kg

**SAR(1 g) = 0.710 W/kg; SAR(10 g) = 0.168 W/kg**

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 53%

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



0 dB = 1.61 W/kg = 2.08 dBW/kg

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Date: 2021/9/10

**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.3G\_Body\_Top Edge\_CH 62\_0mm\_Tx1**

Communication System: WLAN; Frequency: 5310 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.776 \text{ S/m}$ ;  $\epsilon_r = 35.959$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.32 W/kg

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

Reference Value = 4.455 V/m; Power Drift = -0.01 dB

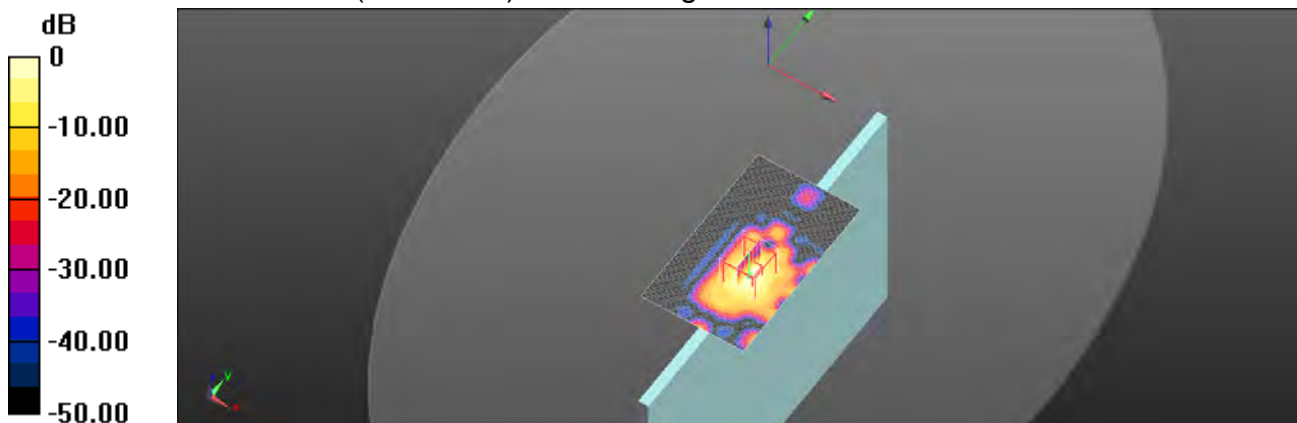
Peak SAR (extrapolated) = 3.52 W/kg

**SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.166 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kg = 2.18 dBW/kg

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Date: 2021/9/10

**Report No. : E5/2021/80015**

**WLAN 802.11 ac(80M) 5.3G\_Body\_Top Edge\_CH 58\_0mm\_Tx1**

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.755 \text{ S/m}$ ;  $\epsilon_r = 35.982$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

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

Reference Value = 4.618 V/m; Power Drift = -0.05 dB

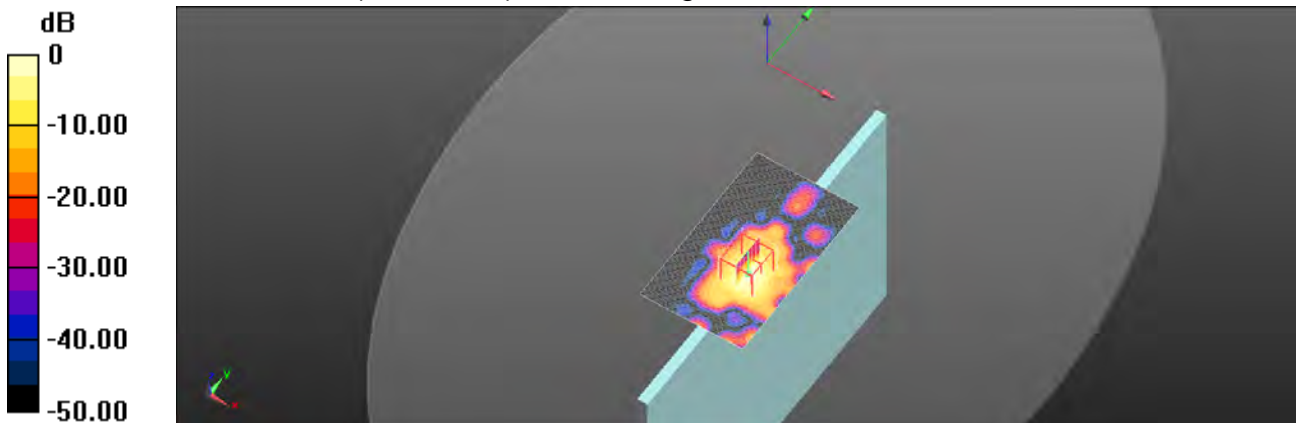
Peak SAR (extrapolated) = 3.94 W/kg

**SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.174 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.6%

Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.63 W/kg = 2.13 dBW/kg

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Date: 2021/9/11

**Report No. : E5/2021/80015**

**WLAN 802.11 ac(80M) 5.6G\_Body\_Top Edge\_CH 106\_0mm\_Tx1**

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5530$  MHz;  $\sigma = 5.003$  S/m;  $\epsilon_r = 35.708$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 5.337 V/m; Power Drift = 0.06 dB

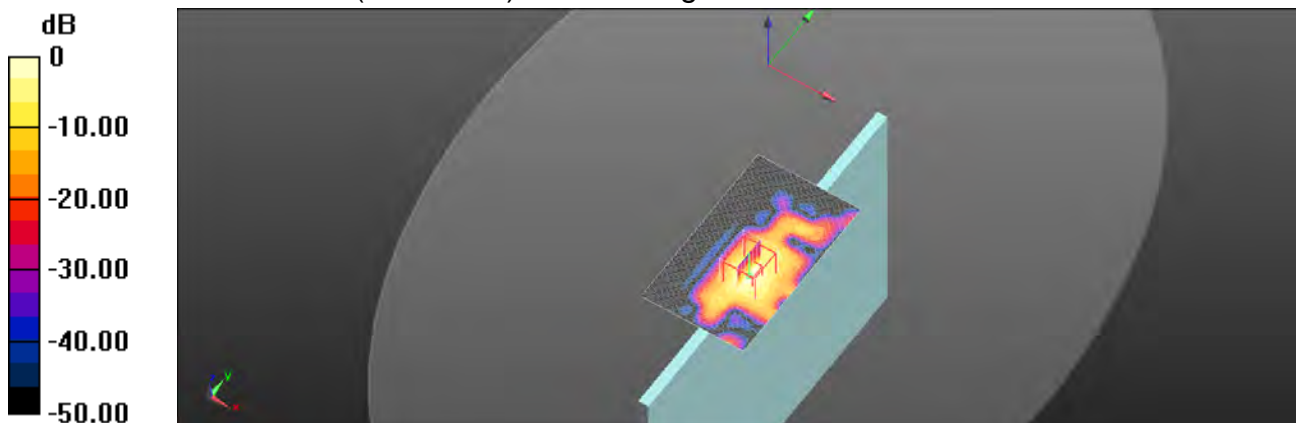
Peak SAR (extrapolated) = 4.39 W/kg

**SAR(1 g) = 0.767 W/kg; SAR(10 g) = 0.178 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 59.2%

Maximum value of SAR (measured) = 1.77 W/kg



0 dB = 1.77 W/kg = 2.47 dBW/kg

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Date: 2021/9/11

**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.6G\_Body\_Top Edge\_CH 114\_0mm\_TX1**

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5570 \text{ MHz}$ ;  $\sigma = 5.044 \text{ S/m}$ ;  $\epsilon_r = 35.662$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.55 W/kg

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

Reference Value = 5.720 V/m; Power Drift = -0.05 dB

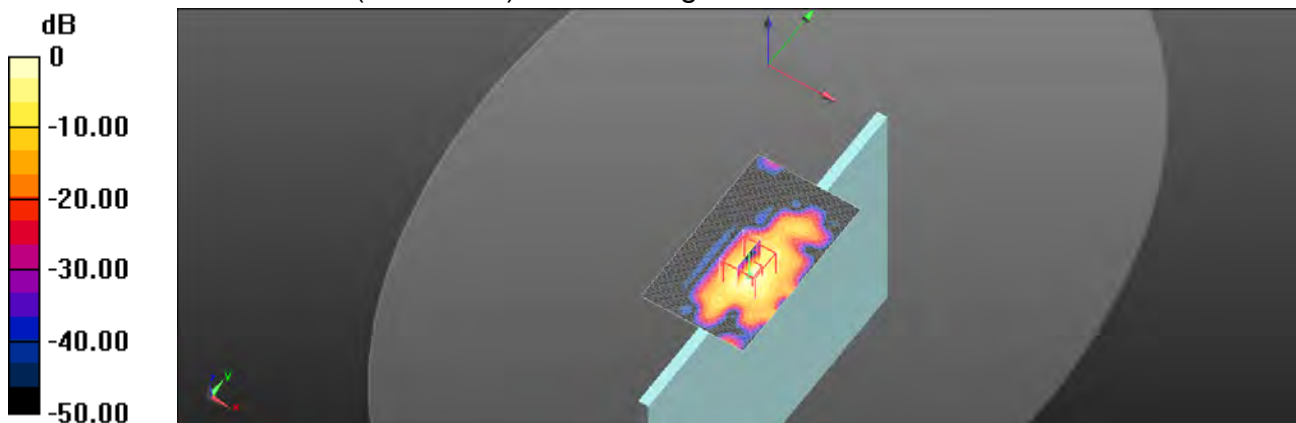
Peak SAR (extrapolated) = 4.72 W/kg

**SAR(1 g) = 0.870 W/kg; SAR(10 g) = 0.205 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 59.7%

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



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

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Date: 2021/9/12

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.8G\_Body\_Top Edge\_CH 155\_0mm\_Tx1**

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.254 \text{ S/m}$ ;  $\epsilon_r = 35.428$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.882 W/kg

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

Reference Value = 6.671 V/m; Power Drift = -0.06 dB

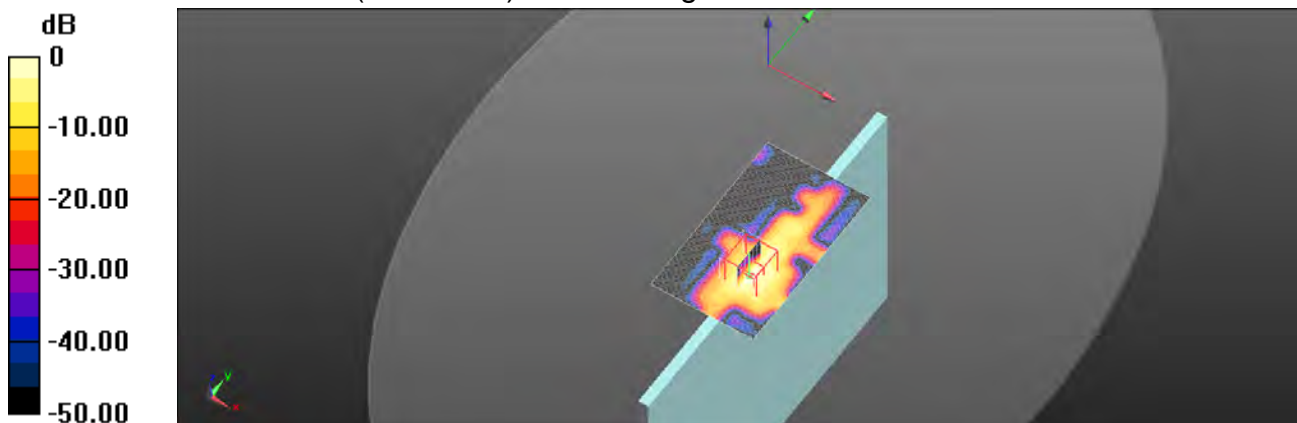
Peak SAR (extrapolated) = 2.53 W/kg

**SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.127 W/kg**

Smallest distance from peaks to all points 3 dB below = 5 mm

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.05 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11b\_Body\_Back Surface\_CH 11\_0mm\_TX2**

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:0.989

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.822 \text{ S/m}$ ;  $\epsilon_r = 39.284$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 1.258 V/m; Power Drift = 0.03 dB

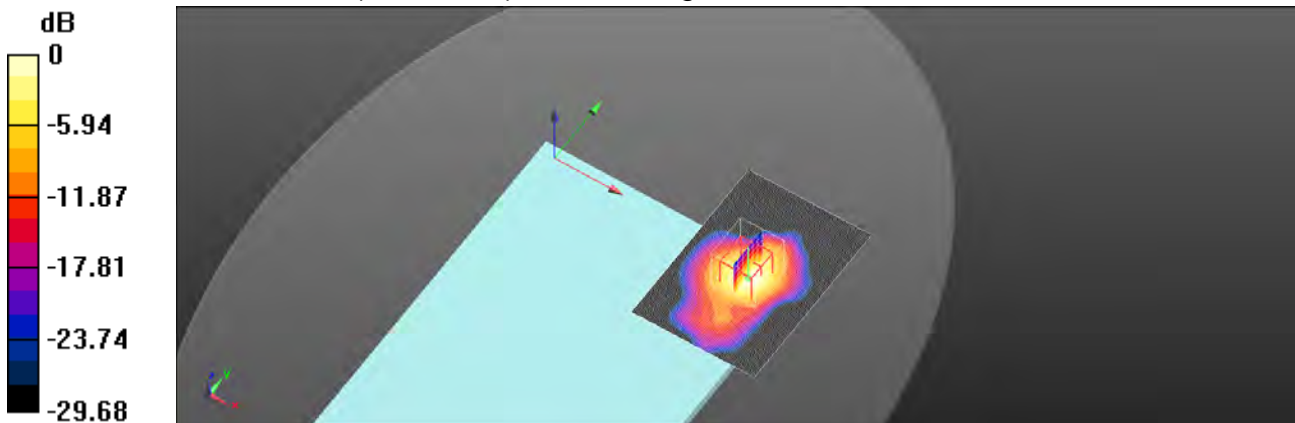
Peak SAR (extrapolated) = 2.69 W/kg

**SAR(1 g) = 0.886 W/kg; SAR(10 g) = 0.456 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 1.90 W/kg



0 dB = 1.90 W/kg = 2.79 dBW/kg

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Date: 2021/9/8

**Report No. : E5/2021/80015**

**Bluetooth(GFSK)\_Body\_Back Surface\_CH 39\_0mm\_TX2**

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:0.768

Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.804$  S/m;  $\epsilon_r = 39.315$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.784 W/kg

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

Reference Value = 1.225 V/m; Power Drift = 0.01 dB

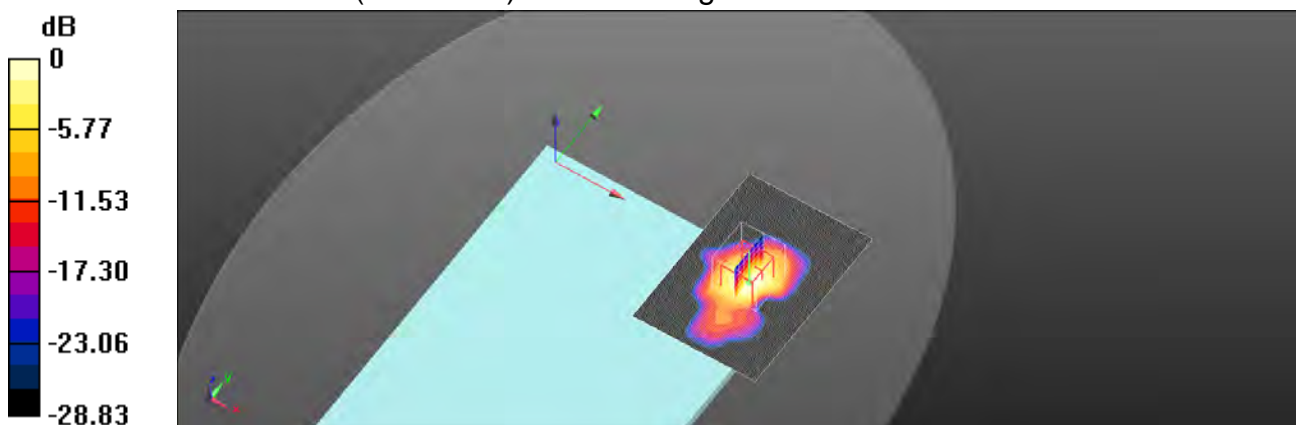
Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.171 W/kg**

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

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

Maximum value of SAR (measured) = 0.717 W/kg



0 dB = 0.717 W/kg = -1.45 dBW/kg

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Date: 2021/9/9

**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.2G\_Body\_Back Surface\_CH 42\_0mm\_Tx2**

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5210 \text{ MHz}$ ;  $\sigma = 4.673 \text{ S/m}$ ;  $\epsilon_r = 36.073$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.49 W/kg

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

Reference Value = 0.6140 V/m; Power Drift = -0.04 dB

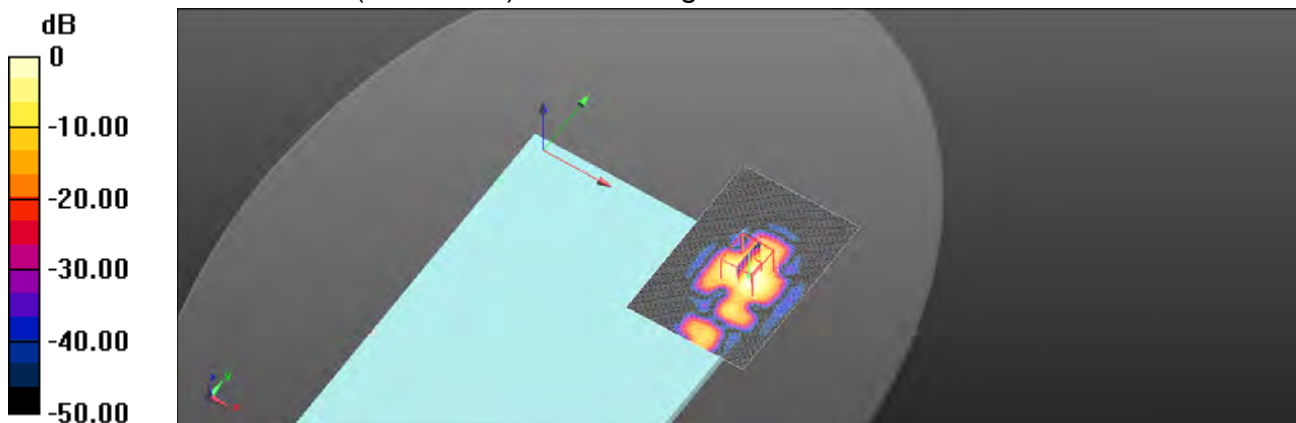
Peak SAR (extrapolated) = 2.66 W/kg

**SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.169 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

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



0 dB = 1.45 W/kg = 1.61 dBW/kg

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Date: 2021/9/9

**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.2G\_Body\_Back Surface\_CH 50\_0mm\_TX2**

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.714$  S/m;  $\epsilon_r = 36.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.72 W/kg

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

Reference Value = 0.7310 V/m; Power Drift = -0.03 dB

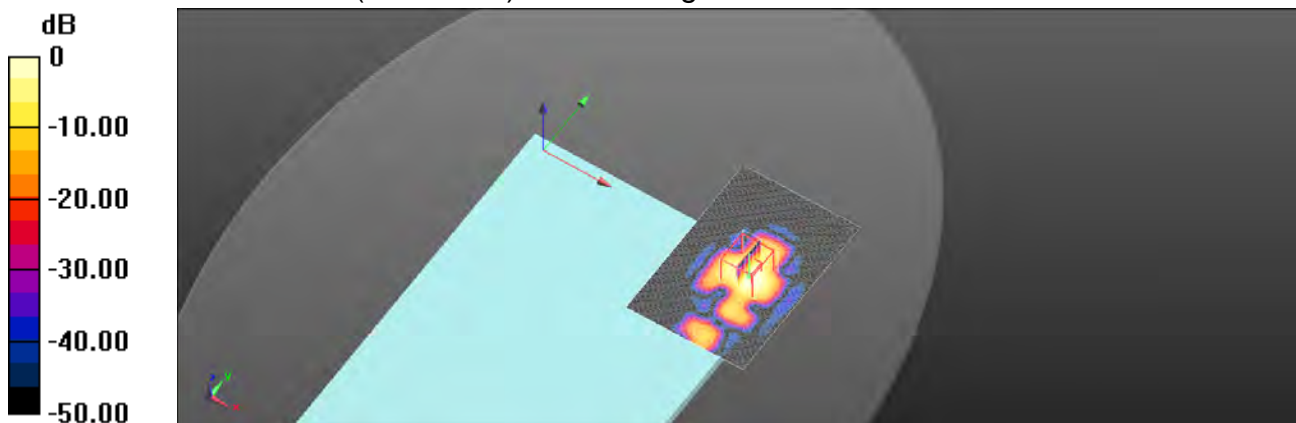
Peak SAR (extrapolated) = 3.56 W/kg

**SAR(1 g) = 0.755 W/kg; SAR(10 g) = 0.189 W/kg**

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

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

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



0 dB = 1.61 W/kg = 2.07 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.3G\_Body\_Back Surface\_CH 62\_0mm\_TX2**

Communication System: WLAN; Frequency: 5310 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.776 \text{ S/m}$ ;  $\epsilon_r = 35.959$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.443 V/m; Power Drift = 0.02 dB

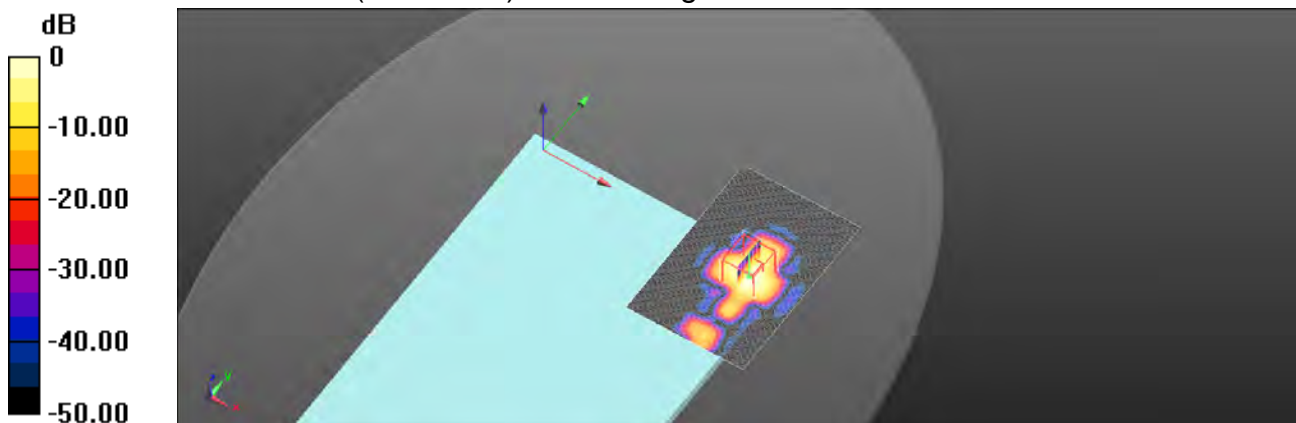
Peak SAR (extrapolated) = 2.70 W/kg

**SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.169 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.3G\_Body\_Back Surface\_CH 58\_0mm\_Tx2**

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0984

Medium parameters used:  $f = 5290 \text{ MHz}$ ;  $\sigma = 4.755 \text{ S/m}$ ;  $\epsilon_r = 35.982$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $22.7^\circ\text{C}$ ; Liquid temperature:  $21.6^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) =  $1.70 \text{ W/kg}$

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

Reference Value =  $0 \text{ V/m}$ ; Power Drift =  $0.03 \text{ dB}$

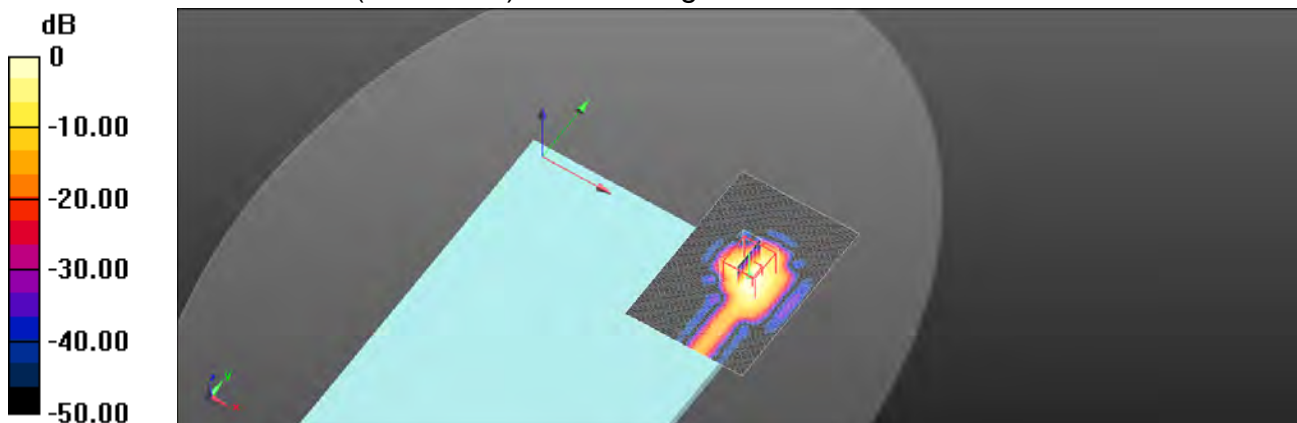
Peak SAR (extrapolated) =  $4.28 \text{ W/kg}$

**SAR(1 g) =  $0.683 \text{ W/kg}$ ; SAR(10 g) =  $0.225 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $5.5 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $50.5\%$

Maximum value of SAR (measured) =  $1.87 \text{ W/kg}$



$0 \text{ dB} = 1.87 \text{ W/kg} = 2.72 \text{ dBW/kg}$

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.6G\_Body\_Back Surface\_CH 106\_0mm\_Tx2**

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5530 \text{ MHz}$ ;  $\sigma = 5.003 \text{ S/m}$ ;  $\epsilon_r = 35.708$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

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

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

Reference Value = 0 V/m; Power Drift = 0.02 dB

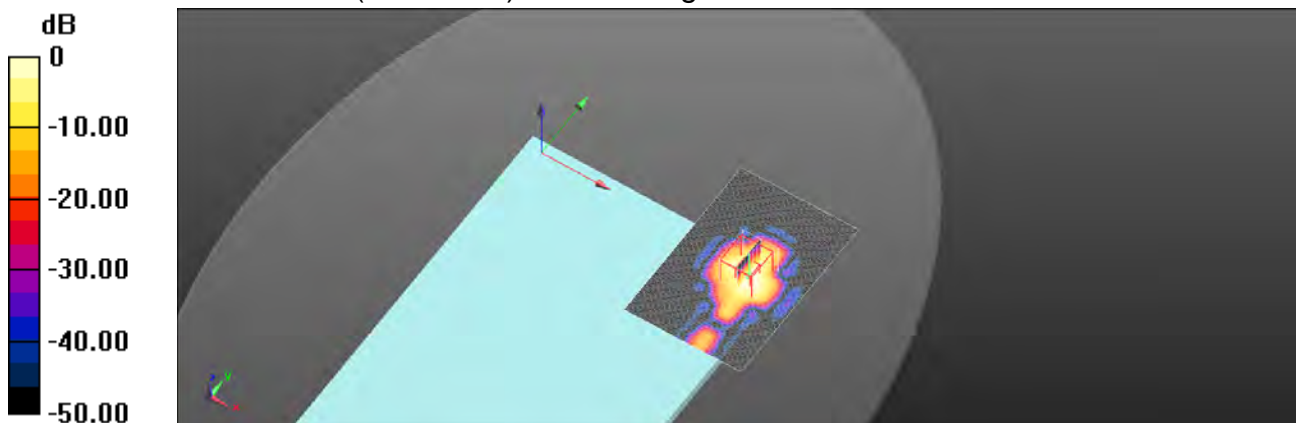
Peak SAR (extrapolated) = 4.87 W/kg

**SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.258 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 2.19 W/kg



0 dB = 2.19 W/kg = 3.40 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(160M) 5.6G\_Body\_Back Surface\_CH 114\_0mm\_TX2**

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:0.983

Medium parameters used:  $f = 5570$  MHz;  $\sigma = 5.044$  S/m;  $\epsilon_r = 35.662$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.223 V/m; Power Drift = 0.02 dB

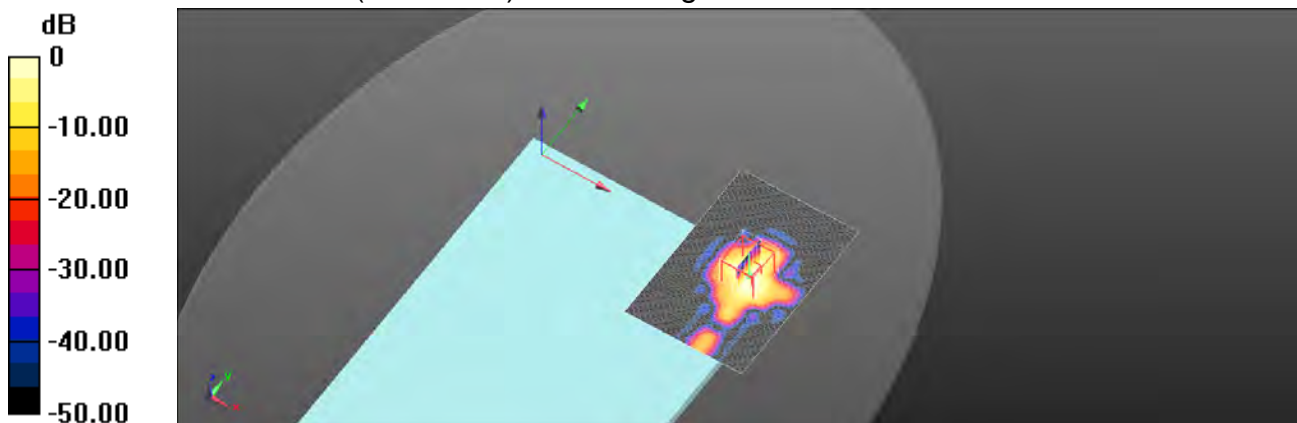
Peak SAR (extrapolated) = 7.13 W/kg

**SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.305 W/kg**

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

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

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



0 dB = 2.26 W/kg = 3.53 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11n(40M) 5.8G\_Body\_Back Surface\_CH 151\_0mm\_TX2**

Communication System: WLAN; Frequency: 5755 MHz; Duty Cycle: 1:0.985

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 5.233 \text{ S/m}$ ;  $\epsilon_r = 35.45$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 0.6130 V/m; Power Drift = -0.05 dB

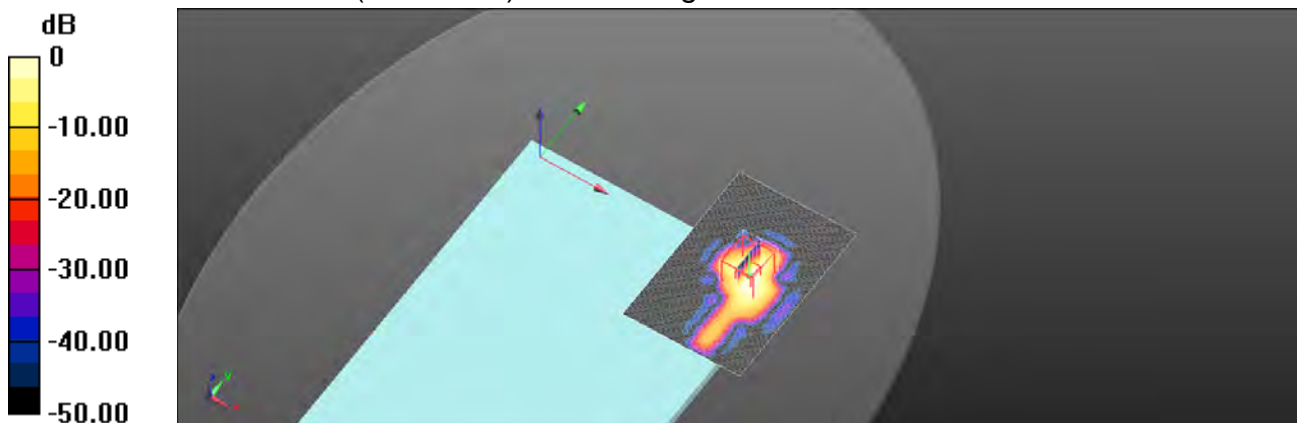
Peak SAR (extrapolated) = 3.87 W/kg

**SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.210 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 1.78 W/kg



0 dB = 1.78 W/kg = 2.49 dBW/kg

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**Report No. : E5/2021/80015**

**WLAN 802.11ac(80M) 5.8G\_Body\_Back Surface\_CH 155\_0mm\_Tx2**

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.984

Medium parameters used:  $f = 5775 \text{ MHz}$ ;  $\sigma = 5.254 \text{ S/m}$ ;  $\epsilon_r = 35.428$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.52 W/kg

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

Reference Value = 0.7440 V/m; Power Drift = 0.01 dB

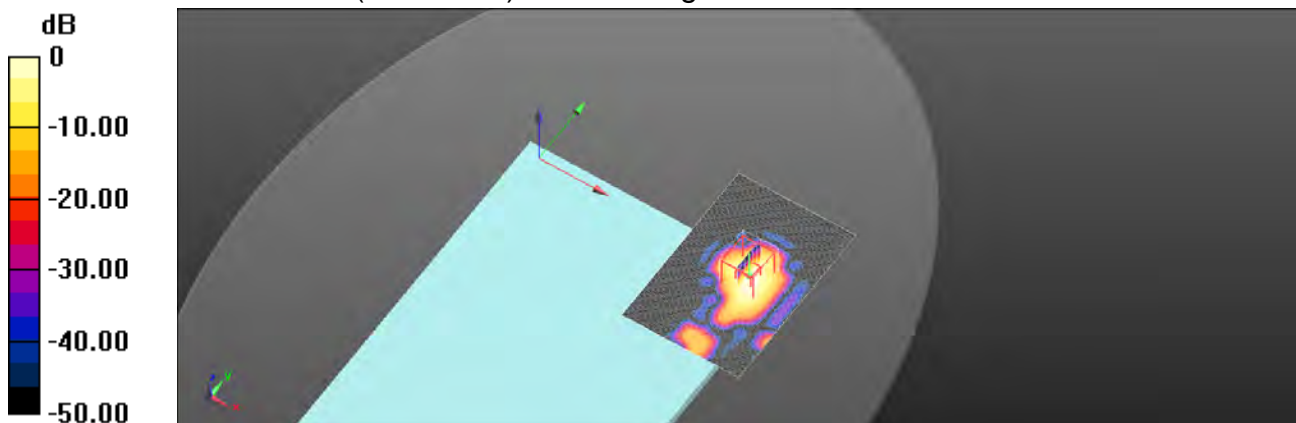
Peak SAR (extrapolated) = 4.38 W/kg

**SAR(1 g) = 0.842 W/kg; SAR(10 g) = 0.222 W/kg**

Smallest distance from peaks to all points 3 dB below = 5.5 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 1.87 W/kg



0 dB = 1.87 W/kg = 2.71 dBW/kg

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## 6. SAR System Performance Verification

Date: 2021/9/1

**Report No. : E5/2021/80015**

**Dipole 750 MHz\_SN:1078**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.896 \text{ S/m}$ ;  $\epsilon_r = 42.041$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(10.29, 10.29, 10.29); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (51x71x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.54 W/kg

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

Reference Value = 60.65 V/m; Power Drift = 0.04 dB

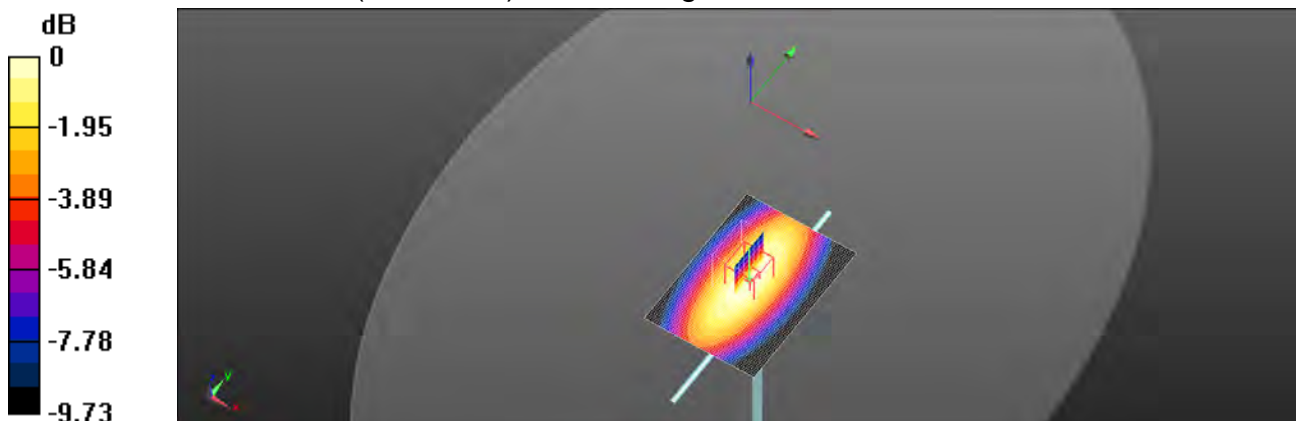
Peak SAR (extrapolated) = 2.98 W/kg

**SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.38 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 69.1%

Maximum value of SAR (measured) = 2.57 W/kg



0 dB = 2.57 W/kg = 4.10 dBW/kg

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**Report No. : E5/2021/80015**

**Dipole 835 MHz\_SN:4d166**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.913 \text{ S/m}$ ;  $\epsilon_r = 41.654$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $22.6^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.97, 9.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (51x71x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) =  $2.78 \text{ W/kg}$

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

Reference Value =  $62.38 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$

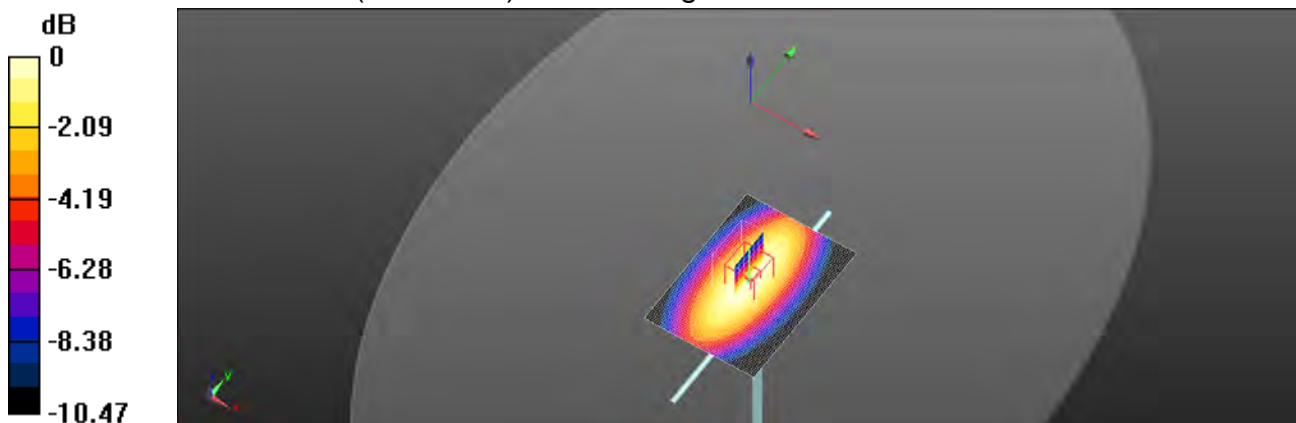
Peak SAR (extrapolated) =  $3.28 \text{ W/kg}$

**SAR(1 g) =  $2.29 \text{ W/kg}$ ; SAR(10 g) =  $1.55 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $9.2 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $67.7\%$

Maximum value of SAR (measured) =  $2.82 \text{ W/kg}$



$0 \text{ dB} = 2.82 \text{ W/kg} = 4.50 \text{ dBW/kg}$

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**Report No. : E5/2021/80015**

**Dipole 1750 MHz\_SN:1111**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.373$  S/m;  $\epsilon_r = 40.178$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.11, 9.11, 9.11); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 14.2 W/kg

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

Reference Value = 102.6 V/m; Power Drift = -0.03 dB

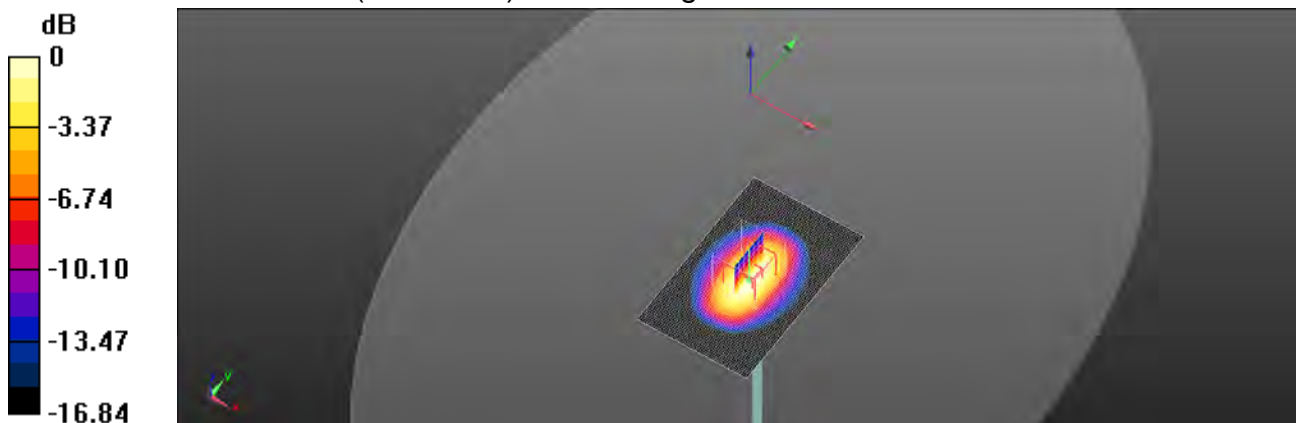
Peak SAR (extrapolated) = 17.7 W/kg

**SAR(1 g) = 8.92 W/kg; SAR(10 g) = 4.74 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 14.0 W/kg



0 dB = 14.0 W/kg = 11.45 dBW/kg

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**Report No. : E5/2021/80015**

**Dipole 1900 MHz\_SN:5d173**

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

Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.406 \text{ S/m}$ ;  $\epsilon_r = 40.099$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(8.74, 8.74, 8.74); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x71x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.0 W/kg

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

Reference Value = 84.39 V/m; Power Drift = -0.01 dB

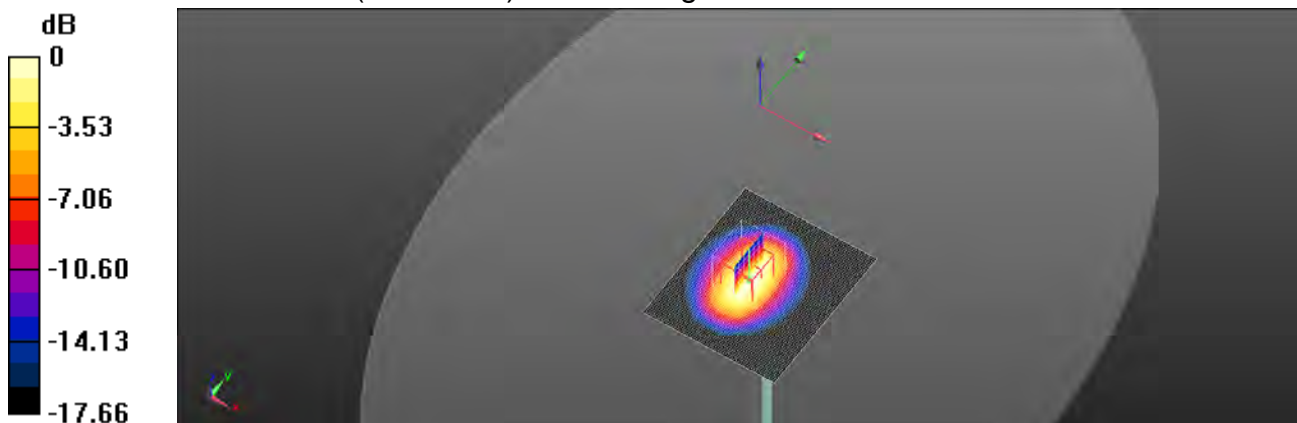
Peak SAR (extrapolated) = 16.9 W/kg

**SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.13 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.17 dBW/kg

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Date: 2021/9/3

**Report No. : E5/2021/80015**

**Dipole 2300 MHz\_SN:1092**

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2300$  MHz;  $\sigma = 1.684$  S/m;  $\epsilon_r = 39.566$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.31, 8.31, 8.31); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (71x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.4 W/kg

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

Reference Value = 114.8 V/m; Power Drift = -0.02 dB

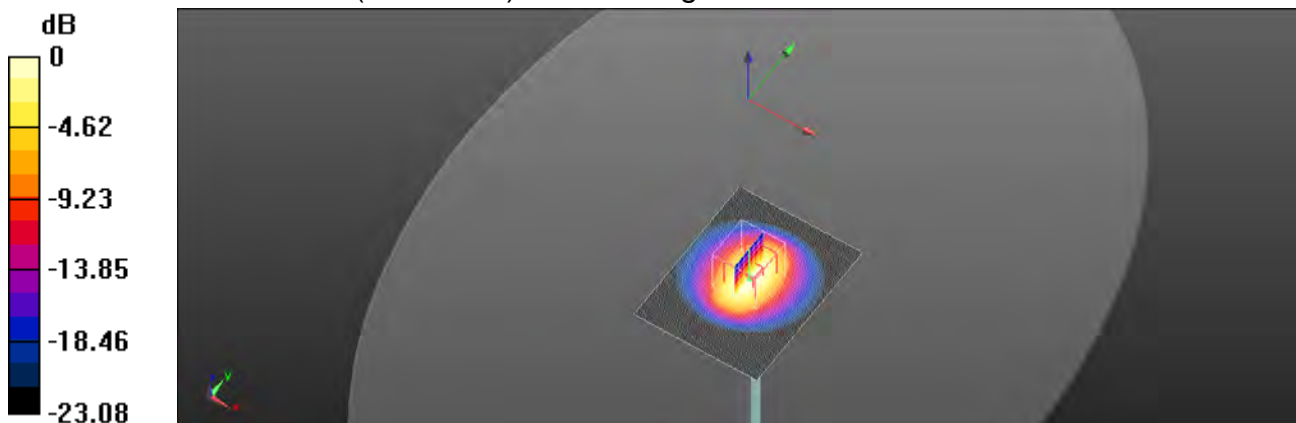
Peak SAR (extrapolated) = 30.8 W/kg

**SAR(1 g) = 12.4 W/kg; SAR(10 g) = 6.01 W/kg**

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

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

Maximum value of SAR (measured) = 22.5 W/kg



0 dB = 22.5 W/kg = 13.52 dBW/kg

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Date: 2021/9/3

**Report No. : E5/2021/80015**

**Dipole 2600 MHz\_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.946$  S/m;  $\epsilon_r = 39.108$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(7.97, 7.97, 7.97); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (51x71x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 24.4 W/kg

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

Reference Value = 107.7 V/m; Power Drift = -0.04 dB

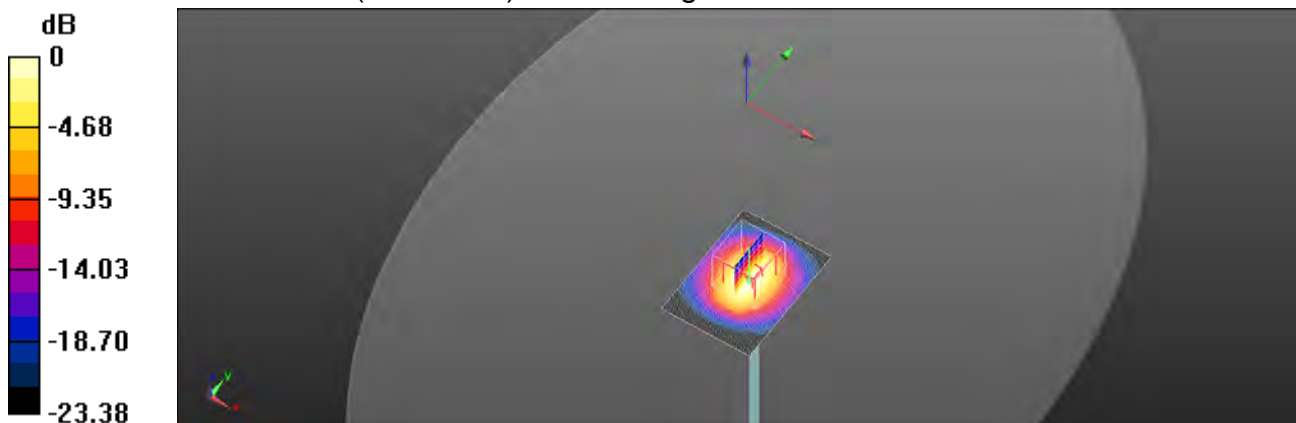
Peak SAR (extrapolated) = 30.2 W/kg

**SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.37 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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Date: 2021/9/4

**Report No. : E5/2021/80015**

**Dipole 2450 MHz\_SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.812$  S/m;  $\epsilon_r = 39.299$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (51x71x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.9 W/kg

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

Reference Value = 101.3 V/m; Power Drift = -0.01 dB

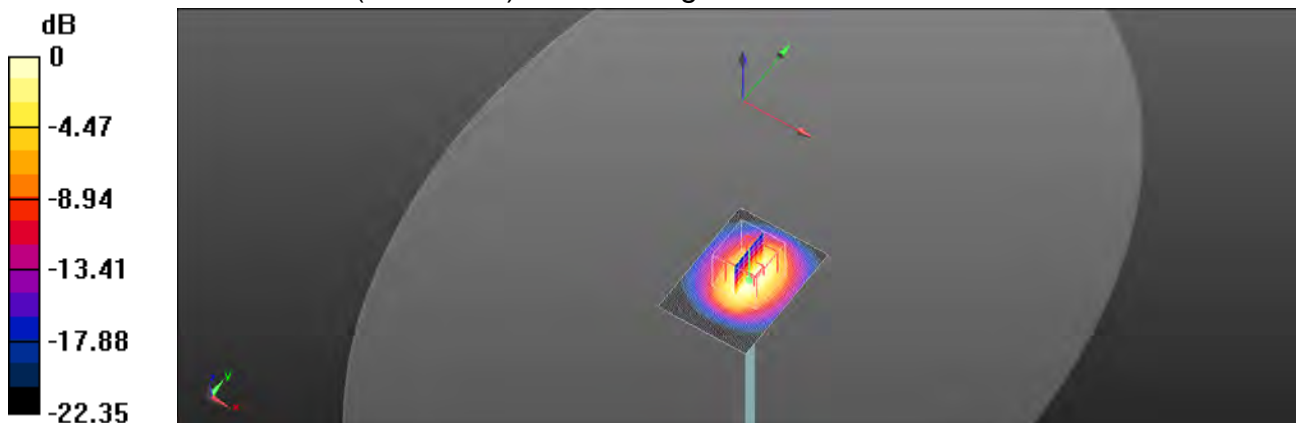
Peak SAR (extrapolated) = 27.1 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.13 W/kg**

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

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**Report No. : E5/2021/80015**

**Dipole 5200 MHz\_SN:1023**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.663$  S/m;  $\epsilon_r = 36.085$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.1°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

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

Reference Value = 62.28 V/m; Power Drift = -0.03 dB

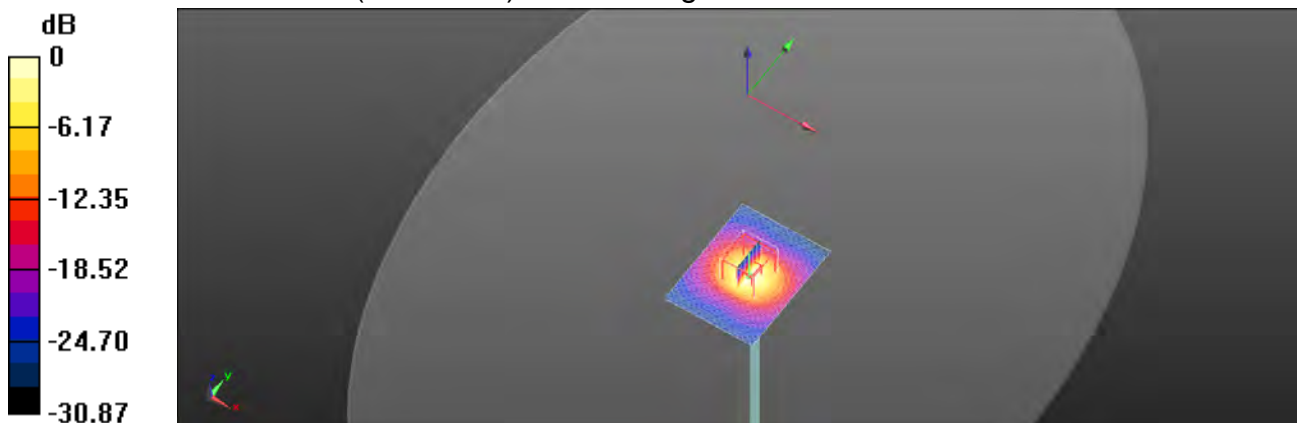
Peak SAR (extrapolated) = 29.5 W/kg

**SAR(1 g) = 7.44 W/kg; SAR(10 g) = 2.19 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 15.4 W/kg



0 dB = 15.4 W/kg = 11.86 dBW/kg

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Date: 2021/9/5

**Report No. : E5/2021/80015**

**Dipole 5300 MHz\_SN:1023**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 4.766 \text{ S/m}$ ;  $\epsilon_r = 35.97$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $22.1^\circ\text{C}$ ; Liquid temperature:  $21.1^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) =  $15.9 \text{ W/kg}$

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

Reference Value =  $54.28 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$

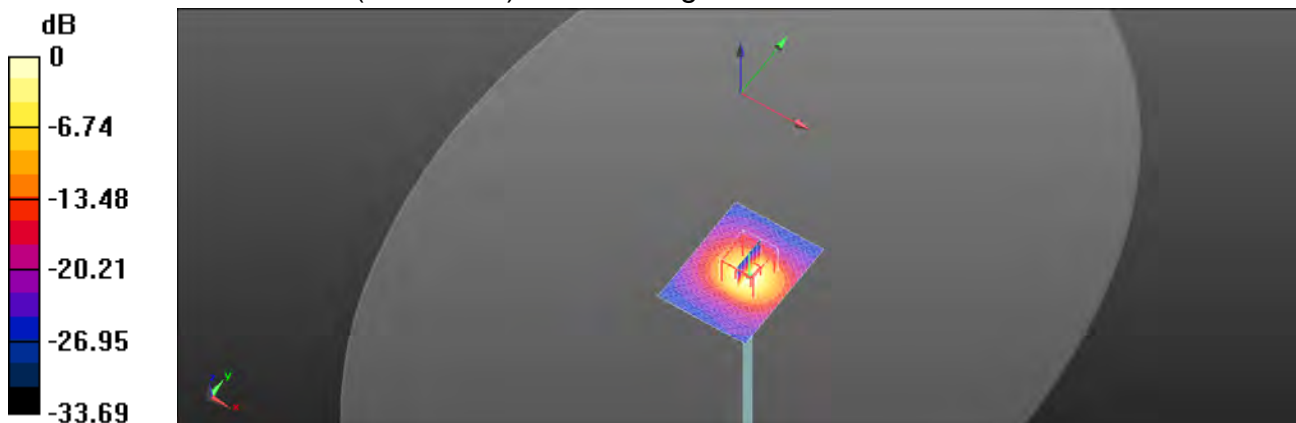
Peak SAR (extrapolated) =  $33.7 \text{ W/kg}$

**SAR(1 g) =  $7.93 \text{ W/kg}$ ; SAR(10 g) =  $2.24 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $7.2 \text{ mm}$

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

Maximum value of SAR (measured) =  $16.6 \text{ W/kg}$



0 dB =  $16.6 \text{ W/kg} = 12.21 \text{ dBW/kg}$

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**Report No. : E5/2021/80015**

**Dipole 5600 MHz\_SN:1023**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.074$  S/m;  $\epsilon_r = 35.628$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

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

Reference Value = 49.37 V/m; Power Drift = 0.05 dB

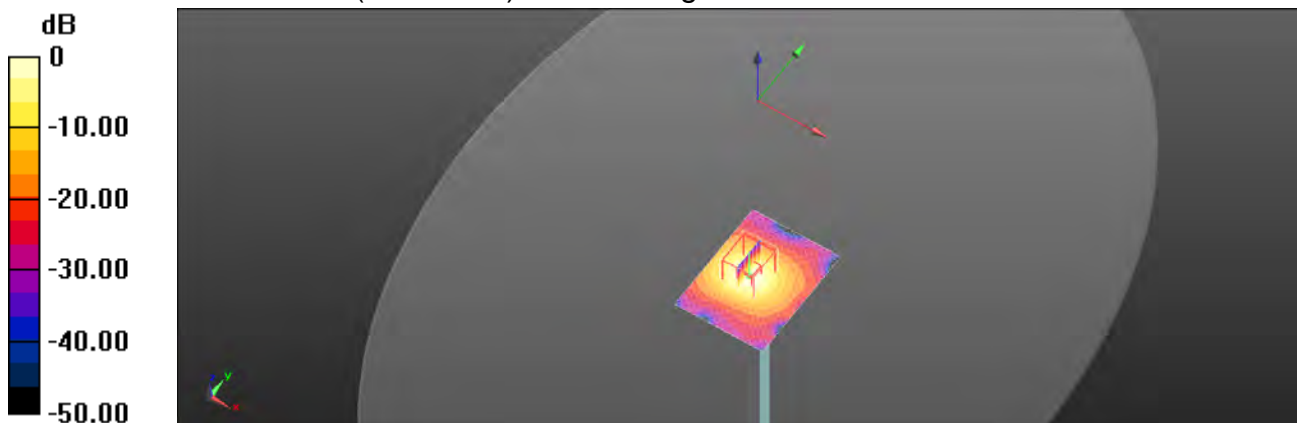
Peak SAR (extrapolated) = 35.5 W/kg

**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.27 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.5%

Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 12.24 dBW/kg

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Date: 2021/9/7

**Report No. : E5/2021/80015**

**Dipole 5800 MHz\_SN:1023**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.279$  S/m;  $\epsilon_r = 35.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 47.50 V/m; Power Drift = 0.02 dB

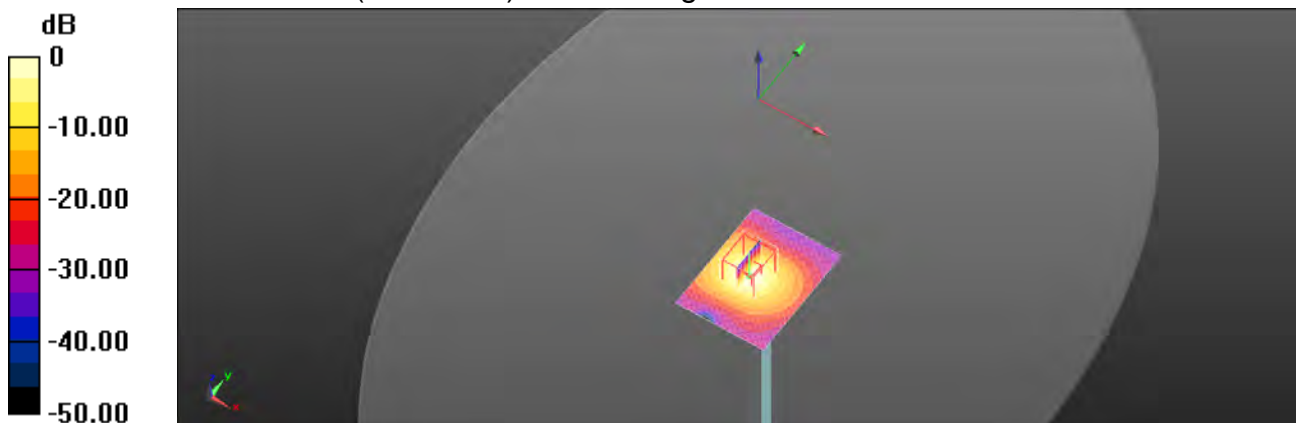
Peak SAR (extrapolated) = 35.5 W/kg

**SAR(1 g) = 8.15 W/kg; SAR(10 g) = 2.22 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.6 mm

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

Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

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Date: 2021/9/8

**Report No. : E5/2021/80015**

**Dipole 2450 MHz\_SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.812$  S/m;  $\epsilon_r = 39.299$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.18, 8.18, 8.18); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (51x71x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.8 W/kg

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

Reference Value = 100.9 V/m; Power Drift = -0.04 dB

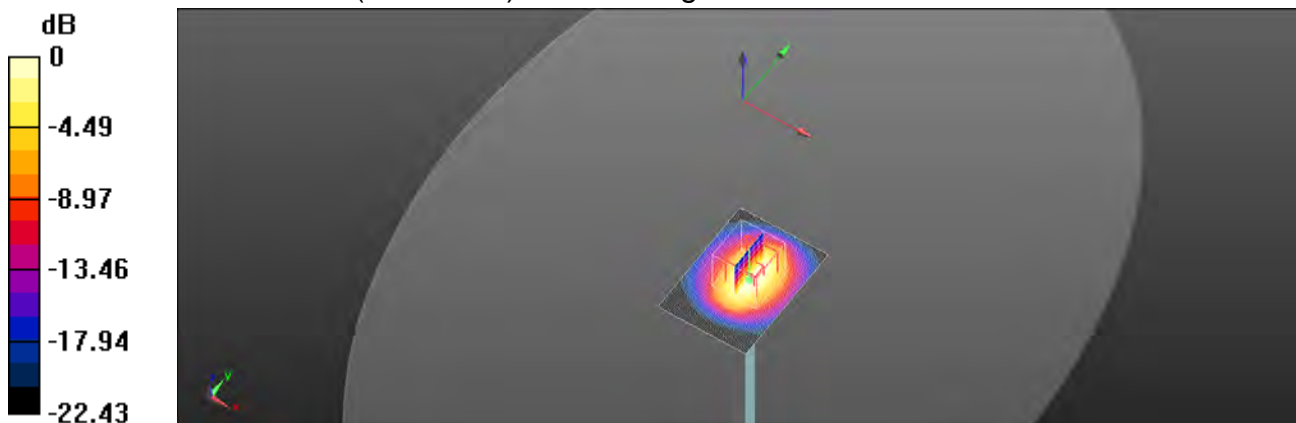
Peak SAR (extrapolated) = 26.9 W/kg

**SAR(1 g) = 13 W/kg; SAR(10 g) = 6.05 W/kg**

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.95 dBW/kg

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Date: 2019/9/9

**Report No. : E5/2021/80015**

**Dipole 5200 MHz\_SN:1023**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 4.663 \text{ S/m}$ ;  $\epsilon_r = 36.085$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.7, 5.7, 5.7); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.3 W/kg

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

Reference Value = 61.69 V/m; Power Drift = -0.01 dB

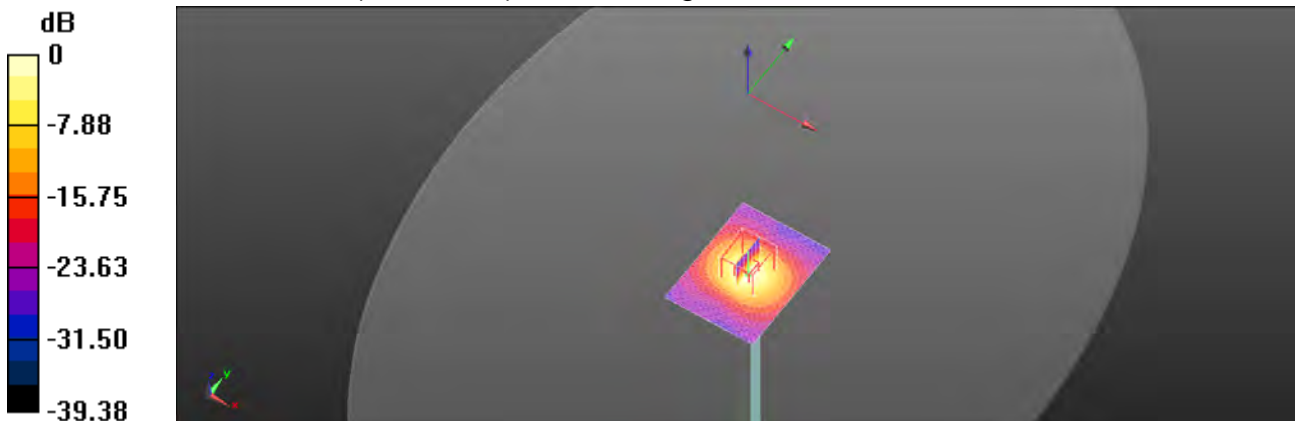
Peak SAR (extrapolated) = 32.0 W/kg

**SAR(1 g) = 7.53 W/kg; SAR(10 g) = 2.17 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 15.2 W/kg



0 dB = 15.2 W/kg = 11.82 dBW/kg

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**Report No. : E5/2021/80015**

**Dipole 5300 MHz\_SN:1023**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 4.766 \text{ S/m}$ ;  $\epsilon_r = 35.97$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $22.7^\circ\text{C}$ ; Liquid temperature:  $21.6^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.45, 5.45, 5.45); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) =  $15.9 \text{ W/kg}$

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

Reference Value =  $54.28 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$

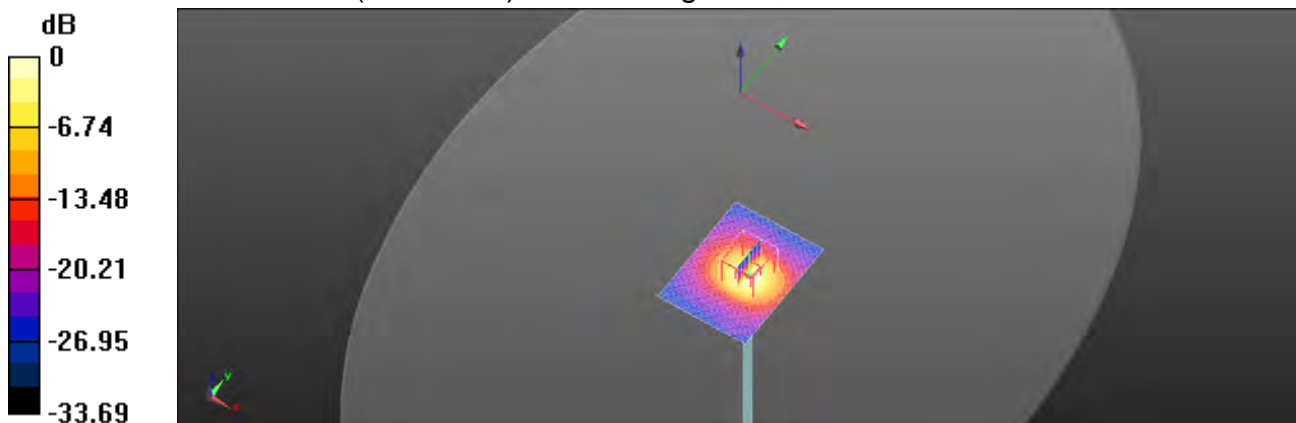
Peak SAR (extrapolated) =  $33.7 \text{ W/kg}$

**SAR(1 g) =  $7.93 \text{ W/kg}$ ; SAR(10 g) =  $2.24 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $7.2 \text{ mm}$

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

Maximum value of SAR (measured) =  $16.6 \text{ W/kg}$



0 dB =  $16.6 \text{ W/kg} = 12.21 \text{ dBW/kg}$

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**Report No. : E5/2021/80015**

**Dipole 5600 MHz\_SN:1023**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.074$  S/m;  $\epsilon_r = 35.628$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7509; ConvF(5.1, 5.1, 5.1); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.7 W/kg

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

Reference Value = 50.78 V/m; Power Drift = 0.02 dB

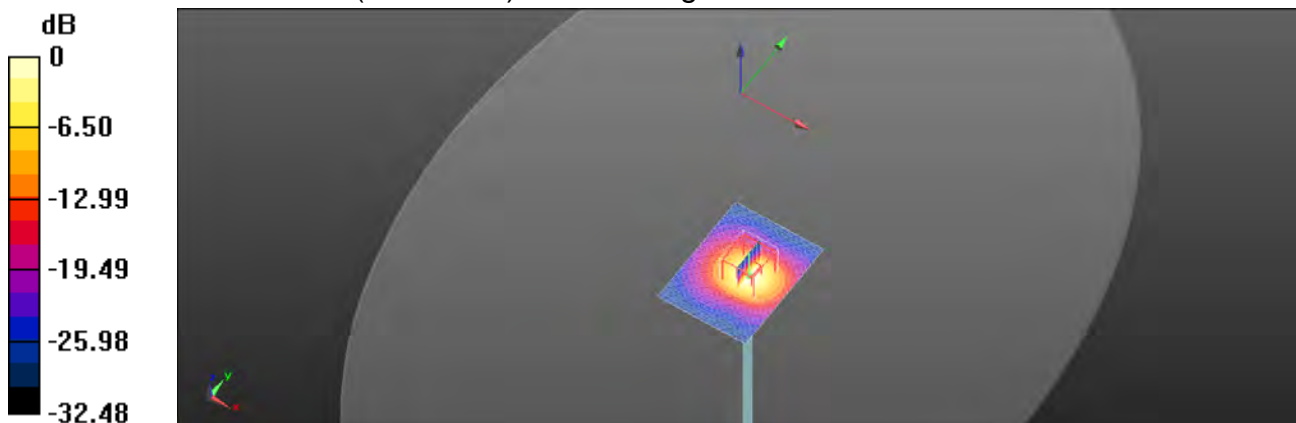
Peak SAR (extrapolated) = 36.2 W/kg

**SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.27 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.33 dBW/kg

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Date: 2019/9/12

**Report No. : E5/2021/80015**

**Dipole 5800 MHz\_SN:1023**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.279$  S/m;  $\epsilon_r = 35.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(5.2, 5.2, 5.2); Calibrated: 2021/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2020/12/16
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.4 W/kg

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

Reference Value = 69.89 V/m; Power Drift = -0.01 dB

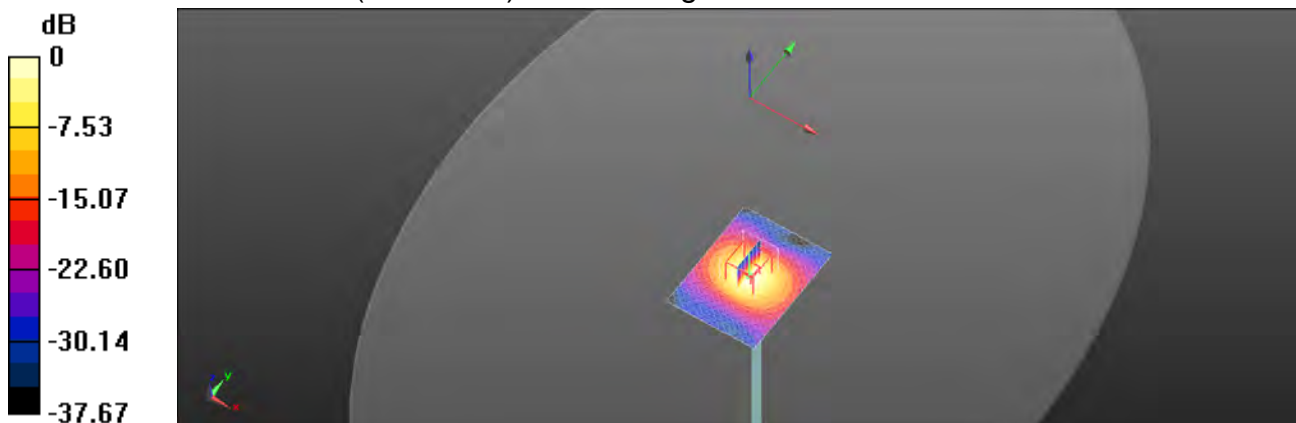
Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.31 W/kg**

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

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.68 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%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.28%	N	1	1	0.64	0.43	0.18%	0.12%	M
Liquid Conductivity (mea.)	0.20%	N	1	1	0.6	0.49	0.12%	0.10%	M
Combined standard uncertainty		RSS					11.72%	11.71%	
Expant uncertainty (95% confidence interval), K=2							23.44%	23.42%	

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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%	∞
<b>Isotropy , Axial</b>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<b>Isotropy, Hemispherical</b>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
<b>Measurement drift (class A evaluation)</b>									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
<b>Test Sample related</b>									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
<b>Phantom and Setup</b>									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.84%	N	1	1	0.64	0.43	1.18%	0.79%	M
Liquid Conductivity (mea.)	1.54%	N	1	1	0.6	0.49	0.92%	0.75%	M
Combined standard uncertainty		RSS					11.52%	11.46%	
Expant uncertainty (95% confidence interval), K=2							23.03%	22.92%	

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## Appendixes

**Refer to separated files for the following appendixes.**

**E5202180015 SAR\_Appendix A Photographs**

**E5202180015 SAR\_Appendix B DAE & Probe Cal. Certificate**

**E5202180015 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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