

SAR TEST REPORT



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

Equipment Under Test	Smart phone
Company Name	Sharp Corporation, Mobile Communication B.U.
Company Address	2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima, 739-0192, Japan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	APYHRO00292
Date of Receipt	Nov. 24, 2020
Date of Test(s)	Dec. 16, 2020 ~ Dec. 21, 2020
Date of Issue	Jan. 12, 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 / Ruby Ou	Engineer / Bond Tsai	Asst. Manager / John Yeh
Ruby Ou	Bond Tsai	John Yeh

Date: Jan. 12, 2021

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Highest SAR Summary					
Equipment class	Frequency Band	Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Highest Simultaneous Transmission 1g SAR(W/Kg)
Licensed	WCDMA Band V	0.28	-	-	0.81
Licensed	LTE Band 38	-	0.29	-	
Licensed	GPRS 1900	-	-	0.63	
DTS	2.4GHz WLAN	0.50	0.07	0.08	
NII	5GHz WLAN	0.40	0.11	0.08	
DSS	Bluetooth	0.21	0.04	-	
Date of Testing		2020/12/16 ~ 2020/12/21			

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Revision History

Report Number	Revision	Description	Issue Date
E5/2020/B0013	Rev.00	Initial creation of document	Jan. 12, 2021

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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
KDB865664D01v01r04
KDB865664D02v01r02
KDB941225D01v03r01
KDB941225D05v02r05
KDB941225D06v02r01
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	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	Sharp Corporation, Mobile Communication B.U.
Company Address	2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima, 739-0192, Japan

1.2.1 Details of Manufacturer

Company Name	Sharp Corporation
Company Address	1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

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1.3 Description of EUT

EUT Name	Smart phone			
FCC ID	APYHRO00292			
Mode of Operation	<input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> GPRS <input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> LTE FDD <input checked="" type="checkbox"/> LTE TDD <input checked="" type="checkbox"/> Bluetooth <input checked="" type="checkbox"/> WLAN802.11 a/b/g/n/ac(20M/40M/80M)			
Duty Cycle	GSM (DTM multi class B)	1/8.3		
	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)		
	LTE FDD	1		
	LTE TDD	0.633		
	WCDMA	1		
	WLAN802.11a/b/g/n/ac (20M/40M/80M)	Refer to page 33-36		
	Bluetooth	76.8%		
TX Frequency Range (MHz)	GSM850	824	—	849
	GSM1900	1850	—	1910
	WCDMA Band V	824	—	849
	LTE FDD Band 5	824	—	849
	LTE FDD Band 12	699	—	716
	LTE FDD Band 17	704	—	716
	LTE TDD Band 38	2570	—	2620
	LTE TDD Band 41	2496	—	2690
	WiFi 2.4GHz	2400	—	2462
	WiFi 5GHz	5150	—	5825
	Bluetooth	2402	—	2480
Channel Number (ARFCN)	GSM850	128	—	251
	GSM1900	512	—	810
	WCDMA Band V	4132	—	4233
	LTE FDD Band 5	20407	—	20643

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Channel Number (ARFCN)	LTE FDD Band 12	23017	—	23173
	LTE FDD Band 17	23755	—	23825
	LTE TDD Band 38	37775	—	38225
	LTE TDD Band 41	39675	—	41565
	WiFi 2.4GHz	1	—	11
	WiFi 5GHz	36	—	165
	Bluetooth	0	—	78

WWAN

Max. SAR (1-g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Head	GSM 850	0.16	0.21	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 251 Channel
	GSM 1900	0.07	0.08	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 810 Channel
	WCDMA Band V	0.24	0.28	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 4233 Channel
	LTE FDD Band 5	0.22	0.26	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 20600 Channel
	LTE FDD Band 12	0.14	0.16	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 23060 Channel
	LTE FDD Band 17	0.15	0.17	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 23790 Channel
	LTE TDD Band 38	0.09	0.10	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 37850 Channel

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Max. SAR (1-g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Head	LTE TDD Band 41_Ant 1	0.11	0.19	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 41490 Channel
	LTE TDD Band 41_Ant 3	0.20	0.24	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 39750 Channel

WLAN

Max. SAR (1-g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Head	WLAN802.11 b	0.48	0.50	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 10 Channel
	WLAN802.11ac(80M)5.2G	0.36	0.40	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 42 Channel
	WLAN802.11ac(80M)5.3G	0.29	0.34	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 58 Channel
	WLAN802.11ac(80M)5.6G	0.31	0.34	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 138 Channel
	WLAN802.11ac(80M)5.8G	0.31	0.37	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input type="checkbox"/> Cheek <input checked="" type="checkbox"/> Tilt 155 Channel
	Bluetooth	0.10	0.22	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 39 Channel

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WWAN

Max. SAR (1-g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Body-worn	GSM 850	0.12	0.16	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 190 Channel
	GSM 1900	0.21	0.25	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 810 Channel
	WCDMA Band V	0.21	0.24	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 4233 Channel
	LTE FDD Band 5	0.16	0.18	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 20525 Channel
	LTE FDD Band 12	0.17	0.17	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 23095 Channel
	LTE FDD Band 17	0.17	0.19	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 23790 Channel
	LTE TDD Band 38	0.25	0.29	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 37850 Channel
	LTE TDD Band 41_Ant 1	0.21	0.25	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 40185 Channel
	LTE TDD Band 41_Ant 3	0.05	0.06	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 39750 Channel

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WLAN

Max. SAR (1-g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Body-worn	WLAN802.11 b	0.07	0.07	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 10 Channel
	WLAN802.11ac(80M)5.2G	0.10	0.11	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 42 Channel
	WLAN802.11ac(80M)5.3G	0.03	0.04	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 58 Channel
	WLAN802.11ac(80M)5.6G	0.03	0.03	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 138 Channel
	WLAN802.11ac(80M)5.8G	0.05	0.06	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back 155 Channel
	Bluetooth	0.02	0.04	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 39 Channel

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WWAN

Max. SAR (1-g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Hotspot mode	GPRS 850 (1Dn4UP)	0.37	0.50	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input checked="" type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Bottom 128 Channel
	GPRS 1900 (1Dn4UP)	0.44	0.63	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left <input checked="" type="checkbox"/> Bottom 810 Channel
	WCDMA Band V	0.46	0.53	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input checked="" type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Bottom 4132 Channel
	LTE FDD Band 5	0.34	0.39	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input checked="" type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Bottom 20525 Channel
	LTE FDD Band 12	0.20	0.23	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input checked="" type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Bottom 23060 Channel
	LTE FDD Band 17	0.24	0.28	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input checked="" type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Bottom 23780 Channel
	LTE TDD Band 38	0.38	0.46	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left <input checked="" type="checkbox"/> Bottom 38150 Channel
	LTE TDD Band 41_Ant 1	0.35	0.59	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left <input checked="" type="checkbox"/> Bottom 41490 Channel
	LTE TDD Band 41_Ant 3	0.10	0.12	<input type="checkbox"/> Front <input type="checkbox"/> Back <input checked="" type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Bottom 39750 Channel

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WLAN

Max. SAR (1-g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Hotspot mode	WLAN802.11 b	0.08	0.08	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Top <input type="checkbox"/> Right <input checked="" type="checkbox"/> Left <input type="checkbox"/> Bottom 10 Channel
	WLAN802.11ac(80M)5.8G	0.07	0.08	<input type="checkbox"/> Front <input type="checkbox"/> Back <input checked="" type="checkbox"/> Top <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Bottom 155 Channel

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GSM 850 - conducted power table:

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power	Source-based time average power
				Avg. (dBm)	Avg. (dBm)
GSM 850 (GMSK)	824.2	128	33.5	32.91	23.88
	836.6	190	33.5	32.34	23.31
	848.8	251	33.5	32.41	23.38
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

GPRS 850 - conducted power table:

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	31	29.3	28.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850	824.2	128	32.89	29.72	27.77	27.23
	836.6	190	32.31	29.52	27.64	27.27
	848.8	251	32.37	29.62	27.66	27.31
Source-based time average power						
GPRS 850	824.2	128	23.86	23.70	23.51	24.22
	836.6	190	23.28	23.50	23.38	24.26
	848.8	251	23.34	23.60	23.40	24.30
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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GSM 1900 - conducted power table:

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power	Source-based time average power
				Avg. (dBm)	Avg. (dBm)
GSM1900 (GMSK)	1850.2	512	30.5	29.95	20.92
	1800	661	30.5	29.85	20.82
	1909.8	810	30.5	29.83	20.80
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

GPRS 1900 - conducted power table:

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	28	26.5	25.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900	1850.2	512	29.91	27.02	24.84	24.14
	1880	661	29.82	26.71	24.55	23.98
	1909.8	810	29.79	26.59	24.64	23.97
Source-based time average power						
GPRS 1900	1850.2	512	20.88	21.00	20.58	21.13
	1880	661	20.79	20.69	20.29	20.97
	1909.8	810	20.76	20.57	20.38	20.96
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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WCDMA Band V - HSDPA / HSUPA Conducted power table (Unit: dBm):

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	24.37	24.36	24.39
3GPP Rel 5	HSDPA Subtest-1	23.40	23.38	23.41
	HSDPA Subtest-2	22.90	22.89	22.91
	HSDPA Subtest-3	22.89	22.87	22.89
	HSDPA Subtest-4	22.86	22.85	22.88
3GPP Rel 6	HSUPA Subtest-1	23.41	23.43	23.42
	HSUPA Subtest-2	21.43	21.41	21.39
	HSUPA Subtest-3	22.43	22.41	22.42
	HSUPA Subtest-4	21.41	21.41	21.44
	HSUPA Subtest-5	23.42	23.51	23.41

Subtests for WCDMA Release 5 HSDPA

SUB-TEST	β_c	β_d	β_d (SF)	β_c/β_d	β_{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

Subtests for WCDMA Release 6 HSUPA

SUB-TEST	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{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	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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**LTE FDD Band 5 / Band 12 / Band 17 / LTE TDD Band 38
conducted power table:**

LTE Band 5							
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)
Frequency (MHz)			829	836.5	844		
Channel			20450	20525	20600		
10	QPSK	1	0	23.10	23.40	23.25	24.00
		1	25	23.17	23.24	23.28	24.00
		1	49	23.37	23.21	23.19	24.00
		25	0	22.19	22.19	22.17	23.00
		25	12	22.25	22.26	22.16	23.00
		25	25	22.25	22.32	22.24	23.00
	16-QAM	50	0	22.25	22.24	22.14	23.00
		1	0	22.35	22.28	22.13	23.00
		1	25	22.24	22.26	22.80	23.00
		1	49	22.55	22.31	22.69	23.00
		25	0	21.22	21.19	21.15	22.00
		25	12	21.33	21.26	21.25	22.00
	64-QAM	25	25	21.32	21.29	21.27	22.00
		50	0	21.23	21.26	21.21	22.00
		1	0	21.23	21.23	21.12	22.00
		1	25	21.26	21.20	21.16	22.00
		1	49	21.17	21.07	21.03	22.00
		25	0	20.15	20.14	20.00	21.00
		25	12	20.19	20.14	20.11	21.00
		25	25	20.07	19.96	20.04	21.00
Frequency (MHz)			826.5	836.5	846.5	Target Power + Max. Tolerance (dBm)	
Channel			20425	20525	20625		
5	QPSK	1	0	23.27	23.11	23.23	24.00
		1	12	23.07	23.13	23.14	24.00
		1	24	23.21	23.21	23.20	24.00
		12	0	22.27	22.24	22.22	23.00
		12	6	22.20	22.25	22.23	23.00
		12	13	22.18	22.34	22.16	23.00
	16-QAM	25	0	22.29	22.28	22.15	23.00
		1	0	22.72	22.78	22.71	23.00
		1	12	22.27	22.60	22.27	23.00
		1	24	22.10	22.20	22.46	23.00
		12	0	21.32	21.26	21.12	22.00
		12	6	21.16	21.31	21.32	22.00
	64-QAM	12	13	21.26	21.23	21.25	22.00
		25	0	21.37	21.18	21.23	22.00
		1	0	21.18	21.16	21.05	22.00
		1	12	21.15	21.18	21.05	22.00
		1	24	21.16	21.04	20.92	22.00
		12	0	20.11	20.06	20.00	21.00
		12	6	20.15	20.05	19.96	21.00
		12	13	20.07	19.86	20.04	21.00
25	0	19.91	19.86	19.90	21.00		

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LTE Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	
Frequency (MHz)				825.5	836.5	847.5		
Channel				20415	20525	20635		
3	QPSK	1	0	23.20	23.17	23.29	24.00	
		1	7	23.01	23.17	23.24	24.00	
		1	14	23.07	23.21	23.19	24.00	
		8	0	22.24	22.25	22.27	23.00	
		8	4	22.28	22.31	22.21	23.00	
		8	7	22.25	22.29	22.15	23.00	
	16-QAM	15	0	22.27	22.18	22.23	23.00	
		1	0	22.19	22.73	22.22	23.00	
		1	7	22.34	22.67	22.70	23.00	
		1	14	22.46	22.54	22.43	23.00	
		8	0	21.31	21.29	21.36	22.00	
		8	4	21.22	21.28	21.17	22.00	
	64-QAM	8	7	21.27	21.24	21.35	22.00	
		15	0	21.12	21.19	21.29	22.00	
		1	0	21.22	21.13	21.09	22.00	
		1	7	21.15	21.06	21.11	22.00	
		1	14	21.15	21.01	21.02	22.00	
		8	0	20.12	19.99	19.92	21.00	
	Frequency (MHz)				824.7	836.5	848.3	Target Power + Max. Tolerance (dBm)
	Channel				20407	20525	20643	
	1.4	QPSK	1	0	23.12	23.06	23.02	24.00
1			2	23.15	23.25	23.11	24.00	
1			5	23.10	23.09	22.99	24.00	
3			0	22.92	22.93	22.98	24.00	
3			2	22.95	22.96	22.97	24.00	
3			3	22.98	22.94	22.95	24.00	
16-QAM		6	0	22.13	22.19	22.11	23.00	
		1	0	22.72	22.31	22.41	23.00	
		1	2	22.45	22.39	22.71	23.00	
		1	5	22.29	22.15	22.25	23.00	
		3	0	21.95	21.94	21.92	23.00	
		3	2	21.89	21.91	21.92	23.00	
64-QAM		3	3	21.95	21.92	21.93	23.00	
		6	0	21.21	21.13	21.21	22.00	
		1	0	21.15	21.11	20.92	22.00	
		1	2	21.06	21.08	20.96	22.00	
		1	5	21.04	20.97	20.91	22.00	
		3	0	20.46	20.55	20.48	22.00	
Frequency (MHz)				824.7	836.5	848.3	Target Power + Max. Tolerance (dBm)	
Channel				20407	20525	20643		
1.4	QPSK	3	2	20.39	20.49	20.41	22.00	
		3	3	20.10	20.14	20.22	22.00	
		6	0	19.94	19.90	19.85	21.00	

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LTE Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	
Frequency (MHz)				704	707.5	711		
Channel				23060	23095	23130		
10	QPSK	1	0	23.20	23.19	23.53	24.00	
		1	25	23.16	23.34	23.34	24.00	
		1	49	23.44	23.89	23.17	24.00	
		25	0	22.29	22.29	22.23	23.00	
		25	12	22.40	22.32	22.29	23.00	
		25	25	22.24	22.4	22.44	23.00	
	16-QAM	50	0	22.32	22.41	22.15	23.00	
		1	0	22.45	22.52	22.34	23.00	
		1	25	22.61	22.53	22.46	23.00	
		1	49	23.00	22.63	22.65	23.00	
		25	0	21.38	21.35	21.20	22.00	
		25	12	21.44	21.37	21.51	22.00	
	64-QAM	25	25	21.43	21.51	21.50	22.00	
		50	0	21.55	21.38	21.25	22.00	
		1	0	21.36	21.33	21.19	22.00	
		1	25	21.40	21.31	21.35	22.00	
		1	49	21.39	21.30	21.22	22.00	
		25	0	20.30	20.29	20.16	21.00	
	Frequency (MHz)				701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)
	Channel				23035	23095	23155	
	5	QPSK	1	0	23.21	23.21	23.34	24.00
1			12	23.22	23.26	23.17	24.00	
1			24	23.36	23.34	23.24	24.00	
12			0	22.42	22.34	22.13	23.00	
12			6	22.43	22.29	22.25	23.00	
12			13	22.35	22.36	22.31	23.00	
16-QAM		25	0	22.36	22.46	22.29	23.00	
		1	0	22.16	22.71	22.28	23.00	
		1	12	22.73	22.49	22.84	23.00	
		1	24	22.54	22.63	22.46	23.00	
		12	0	21.33	21.44	21.47	22.00	
		12	6	21.48	21.44	21.72	22.00	
64-QAM		12	13	21.32	21.34	21.28	22.00	
		25	0	21.27	21.36	21.29	22.00	
		1	0	21.31	21.21	21.07	22.00	
		1	12	21.39	21.23	21.32	22.00	
		1	24	21.27	21.19	21.08	22.00	
		12	0	20.27	20.22	20.09	21.00	
Frequency (MHz)				701.5	707.5	713.5	Target Power + Max. Tolerance (dBm)	
Channel				23035	23095	23155		
5	QPSK	12	6	20.27	20.21	20.17	21.00	
		12	13	20.27	20.09	20.14	21.00	
		25	0	20.22	20.09	20.07	21.00	

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LTE Band 12							
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)
Frequency (MHz)				700.5	707.5	714.5	
Channel				23025	23095	23165	
3	QPSK	1	0	23.23	23.38	23.16	24.00
		1	7	23.31	23.37	23.23	24.00
		1	14	23.21	23.25	23.18	24.00
		8	0	22.33	22.33	22.17	23.00
		8	4	22.30	22.36	22.29	23.00
		8	7	22.27	22.36	22.26	23.00
	16-QAM	15	0	22.32	22.29	22.26	23.00
		1	0	22.62	22.48	22.53	23.00
		1	7	22.64	22.68	22.30	23.00
		1	14	22.30	22.38	22.75	23.00
		8	0	21.42	21.45	21.27	22.00
		8	4	21.46	21.31	21.40	22.00
	64-QAM	8	7	21.30	21.44	21.37	22.00
		15	0	21.24	21.42	21.29	22.00
		1	0	21.25	21.33	21.09	22.00
		1	7	21.26	21.22	21.27	22.00
		1	14	21.28	21.19	21.10	22.00
		8	0	20.23	20.22	20.10	21.00
		8	4	20.30	20.18	20.16	21.00
		8	7	20.17	20.12	20.15	21.00
		15	0	20.16	20.19	20.10	21.00
Frequency (MHz)				699.7	707.5	715.3	Target Power + Max. Tolerance (dBm)
Channel				23017	23095	23173	
1.4	QPSK	1	0	23.18	23.11	23.13	24.00
		1	2	23.25	23.32	23.20	24.00
		1	5	23.22	23.28	23.12	24.00
		3	0	22.90	22.89	22.91	24.00
		3	2	22.96	22.94	22.92	24.00
		3	3	22.95	22.89	22.95	24.00
	16-QAM	6	0	22.34	22.26	22.24	23.00
		1	0	22.77	22.28	22.33	23.00
		1	2	22.50	22.86	22.79	23.00
		1	5	22.68	22.32	22.15	23.00
		3	0	21.99	21.89	21.95	23.00
		3	2	21.97	21.93	21.94	23.00
	64-QAM	3	3	21.95	21.97	21.88	23.00
		6	0	21.34	21.33	21.38	22.00
		1	0	21.26	21.32	21.07	22.00
		1	2	21.36	21.29	21.25	22.00
		1	5	21.26	21.21	21.22	22.00
		3	0	20.55	20.49	20.45	22.00
		3	2	20.41	20.52	20.44	22.00
		3	3	20.34	20.37	20.40	22.00
		6	0	20.14	20.10	20.08	21.00

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LTE Band 17								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	
Frequency (MHz)				709	710	711		
Channel				23780	23790	23800		
10	QPSK	1	0	23.21	23.24	23.34	24.00	
		1	25	23.32	23.29	23.21	24.00	
		1	49	23.27	23.49	23.12	24.00	
		25	0	22.17	22.18	22.12	23.00	
		25	12	22.38	22.26	22.29	23.00	
		25	25	22.42	22.46	22.36	23.00	
	16-QAM	50	0	22.32	22.27	22.20	23.00	
		1	0	22.26	22.26	22.19	23.00	
		1	25	22.20	22.16	22.39	23.00	
		1	49	22.51	22.48	22.52	23.00	
		25	0	21.22	21.12	21.21	22.00	
		25	12	21.43	21.37	21.37	22.00	
	64-QAM	25	25	21.41	21.40	21.47	22.00	
		50	0	21.34	21.38	21.16	22.00	
		1	0	21.33	21.26	21.36	22.00	
		1	25	21.38	21.26	21.33	22.00	
		1	49	21.24	21.28	21.07	22.00	
		25	0	20.25	20.15	20.25	21.00	
	Frequency (MHz)				706.5	710	713.5	Target Power + Max. Tolerance (dBm)
	Channel				23755	23790	23825	
	5	QPSK	1	0	23.08	23.17	23.34	24.00
1			12	23.07	23.27	23.16	24.00	
1			24	23.31	23.21	23.31	24.00	
12			0	22.21	22.25	22.20	23.00	
12			6	22.37	22.34	22.30	23.00	
12			13	22.36	22.38	22.38	23.00	
16-QAM		25	0	22.38	22.28	22.27	23.00	
		1	0	22.44	22.34	22.66	23.00	
		1	12	22.76	22.66	22.37	23.00	
		1	24	22.39	22.58	22.98	23.00	
		12	0	21.24	21.36	21.34	22.00	
		12	6	21.36	21.31	21.41	22.00	
64-QAM		12	13	21.42	21.29	21.36	22.00	
		25	0	21.44	21.29	21.37	22.00	
		1	0	21.28	21.24	21.27	22.00	
		1	12	21.27	21.14	21.25	22.00	
		1	24	21.11	21.23	20.96	22.00	
		12	0	20.10	20.06	20.12	21.00	
Frequency (MHz)				706.5	710	713.5	Target Power + Max. Tolerance (dBm)	
Channel				23755	23790	23825		
5	QPSK	12	6	20.11	20.23	20.16	21.00	
		12	13	20.18	20.09	19.98	21.00	
		25	0	20.12	20.14	20.07	21.00	

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LTE Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	
Frequency (MHz)				2580	2595	2610		
Channel				37850	38000	38150		
20	QPSK	1	0	23.27	23.28	23.14	24.00	
		1	50	23.26	23.25	23.04	24.00	
		1	99	23.34	23.19	23.20	24.00	
		50	0	22.32	22.26	22.16	23.00	
		50	25	22.27	22.23	22.16	23.00	
		50	50	22.26	22.25	22.10	23.00	
	16-QAM	100	0	22.25	22.23	22.17	23.00	
		1	0	22.08	22.56	22.45	23.00	
		1	50	22.51	22.54	22.21	23.00	
		1	99	22.63	22.14	22.43	23.00	
		50	0	21.16	21.11	21.13	22.00	
		50	25	21.21	21.19	21.13	22.00	
	64-QAM	50	50	21.19	21.11	21.07	22.00	
		100	0	21.26	21.24	21.18	22.00	
		1	0	21.13	21.16	21.12	22.00	
		1	50	21.14	21.10	21.01	22.00	
		1	99	21.07	21.13	21.09	22.00	
		50	0	20.10	20.13	20.09	21.00	
	Frequency (MHz)				2577.5	2595	2612.5	Target Power + Max. Tolerance (dBm)
	Channel				37825	38000	38175	
	15	QPSK	1	0	23.00	23.15	23.04	24.00
1			36	23.19	23.06	23.00	24.00	
1			74	23.05	22.96	22.98	24.00	
36			0	22.33	22.26	22.08	23.00	
36			18	22.21	22.17	22.08	23.00	
36			37	22.31	22.23	22.06	23.00	
16-QAM		75	0	22.27	22.23	22.16	23.00	
		1	0	22.30	22.30	22.19	23.00	
		1	36	22.32	22.24	22.00	23.00	
		1	74	22.30	22.20	22.13	23.00	
		36	0	21.24	21.25	21.28	22.00	
		36	18	21.30	21.27	21.20	22.00	
64-QAM		36	37	21.22	21.14	21.16	22.00	
		75	0	21.27	21.25	21.26	22.00	
		1	0	20.99	21.16	21.02	22.00	
		1	36	21.13	20.96	20.97	22.00	
		1	74	20.99	21.07	21.00	22.00	
		36	0	20.04	20.01	20.08	21.00	
Frequency (MHz)				2577.5	2595	2612.5	Target Power + Max. Tolerance (dBm)	
Channel				37825	38000	38175		
15	QPSK	36	18	19.96	19.96	19.85	21.00	
		36	37	19.99	20.09	19.99	21.00	
		75	0	19.90	19.95	20.03	21.00	

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LTE Band 38							
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)
Frequency (MHz)				2575	2595	2615	
Channel				37800	38000	38200	
10	QPSK	1	0	22.93	22.87	22.85	24.00
		1	25	22.91	22.87	22.71	24.00
		1	49	22.97	22.80	22.83	24.00
		25	0	22.19	22.06	21.89	23.00
		25	12	22.07	22.09	21.93	23.00
		25	25	22.12	22.03	21.96	23.00
		50	0	22.09	22.13	21.97	23.00
	16-QAM	1	0	22.09	22.07	21.88	23.00
		1	25	22.05	22.01	21.89	23.00
		1	49	22.02	21.98	21.90	23.00
		25	0	21.12	21.01	20.95	22.00
		25	12	21.08	21.04	20.87	22.00
		25	25	21.05	21.06	20.92	22.00
		50	0	21.18	21.11	20.97	22.00
	64-QAM	1	0	21.01	21.10	21.07	22.00
		1	25	21.02	20.97	20.90	22.00
		1	49	21.06	21.11	21.06	22.00
		25	0	19.98	20.03	20.08	21.00
		25	12	20.07	20.00	19.88	21.00
		25	25	20.02	20.08	20.01	21.00
		50	0	19.96	20.00	19.92	21.00
Frequency (MHz)				2572.5	2595	2617.5	Target Power + Max. Tolerance (dBm)
Channel				37775	38000	38225	
5	QPSK	1	0	22.57	22.68	22.69	24.00
		1	12	22.54	22.60	22.64	24.00
		1	24	22.61	22.52	22.64	24.00
		12	0	21.84	21.77	21.71	23.00
		12	6	21.79	21.80	21.85	23.00
		12	13	21.78	21.80	21.75	23.00
		25	0	21.82	21.83	21.67	23.00
	16-QAM	1	0	21.86	21.73	21.83	23.00
		1	12	21.81	21.73	21.67	23.00
		1	24	21.78	21.83	21.67	23.00
		12	0	20.83	20.71	20.75	22.00
		12	6	20.86	20.84	20.76	22.00
		12	13	20.77	20.85	20.91	22.00
		25	0	20.90	20.88	20.80	22.00
	64-QAM	1	0	21.08	21.04	21.01	22.00
		1	12	21.00	21.06	20.89	22.00
		1	24	20.99	21.09	21.03	22.00
		12	0	19.97	19.99	20.09	21.00
		12	6	20.00	20.00	19.89	21.00
		12	13	19.90	20.05	20.03	21.00
		25	0	19.90	20.05	19.88	21.00

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**LTE TDD Band 41 conducted power table:
Ant 1**

LTE Band 41																																																																																																																																																																																																																																																																																															
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)																																																																																																																																																																																																																																																																																						
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690																																																																																																																																																																																																																																																																																			
Channel				39750	40185	40620	41055	41490	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590																																																																																																																																																																																																																																																																																			
20	QPSK	1	0	22.18	23.80	23.79	23.25	22.22	23.00	24.50	24.00	23.00																																																																																																																																																																																																																																																																																			
		1	50	22.20	23.73	23.67	23.15	22.12	23.00	24.50	24.00	23.00																																																																																																																																																																																																																																																																																			
		1	99	22.22	23.74	23.78	23.27	22.23	23.00	24.50	24.00	23.00																																																																																																																																																																																																																																																																																			
		50	0	21.46	23.04	23.03	22.36	21.35	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																			
		50	25	21.43	22.96	22.98	22.34	21.31	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																			
		50	50	21.44	22.94	22.96	22.39	21.39	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																			
		100	0	21.39	22.98	23.00	22.47	21.31	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																			
		16-QAM	1	0	21.40	22.97	23.05	22.49	21.42	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																		
			1	50	21.34	22.92	22.96	22.35	21.33	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																		
			1	99	21.37	22.93	22.91	22.38	21.35	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																		
	50		0	20.51	22.06	21.99	21.50	20.41	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																			
	50		25	20.40	21.98	22.03	21.38	20.26	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																			
	50		50	20.42	21.96	22.02	21.44	20.43	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																			
	100		0	20.47	22.02	22.04	21.50	20.35	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																			
	64-QAM		1	0	20.43	22.02	21.96	21.42	20.38	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																		
			1	50	20.30	21.94	21.97	21.35	20.19	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																		
			1	99	20.37	21.87	21.95	21.34	20.39	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																		
		50	0	19.39	20.91	20.93	20.37	19.37	20.00	21.50	21.00	20.00																																																																																																																																																																																																																																																																																			
		50	25	19.26	20.86	20.95	20.27	19.17	20.00	21.50	21.00	20.00																																																																																																																																																																																																																																																																																			
		50	50	19.30	20.76	20.87	20.33	19.29	20.00	21.50	21.00	20.00																																																																																																																																																																																																																																																																																			
		100	0	19.32	20.77	20.85	20.34	19.26	20.00	21.50	21.00	20.00																																																																																																																																																																																																																																																																																			
		<table border="1"> <thead> <tr> <th>BW(MHz)</th> <th>Modulation</th> <th>RB Size</th> <th>RB Offset</th> <th colspan="5">Conducted power (dBm)</th> <th colspan="4">Target Power + Max. Tolerance (dBm)</th> </tr> <tr> <th colspan="4">Frequency (MHz)</th> <th>2503.5</th> <th>2548.3</th> <th>2593</th> <th>2637.8</th> <th>2682.5</th> <th>2496 ~ 2544.9</th> <th>2545 ~ 2594.9</th> <th>2595 ~ 2644.9</th> <th>2645 ~ 2690</th> </tr> <tr> <th colspan="4">Channel</th> <th>39725</th> <th>40173</th> <th>40620</th> <th>41068</th> <th>41515</th> <th>39650 ~ 40139</th> <th>40140 ~ 40639</th> <th>40640 ~ 41139</th> <th>41140 ~ 41590</th> </tr> </thead> <tbody> <tr> <td rowspan="30">15</td> <td rowspan="10">QPSK</td> <td>1</td> <td>0</td> <td>21.98</td> <td>23.47</td> <td>23.60</td> <td>23.02</td> <td>21.94</td> <td>23.00</td> <td>24.50</td> <td>24.00</td> <td>23.00</td> </tr> <tr> <td>1</td> <td>36</td> <td>21.95</td> <td>23.47</td> <td>23.45</td> <td>22.91</td> <td>21.95</td> <td>23.00</td> <td>24.50</td> <td>24.00</td> <td>23.00</td> </tr> <tr> <td>1</td> <td>74</td> <td>21.96</td> <td>23.61</td> <td>23.67</td> <td>23.09</td> <td>22.09</td> <td>23.00</td> <td>24.50</td> <td>24.00</td> <td>23.00</td> </tr> <tr> <td>36</td> <td>0</td> <td>21.24</td> <td>22.77</td> <td>22.69</td> <td>22.12</td> <td>21.11</td> <td>22.00</td> <td>23.50</td> <td>23.00</td> <td>22.00</td> </tr> <tr> <td>36</td> <td>18</td> <td>21.17</td> <td>22.66</td> <td>22.64</td> <td>22.18</td> <td>21.11</td> <td>22.00</td> <td>23.50</td> <td>23.00</td> <td>22.00</td> </tr> <tr> <td>36</td> <td>37</td> <td>21.14</td> <td>22.74</td> <td>22.66</td> <td>22.08</td> <td>21.08</td> <td>22.00</td> <td>23.50</td> <td>23.00</td> <td>22.00</td> </tr> <tr> <td>75</td> <td>0</td> <td>21.22</td> <td>22.69</td> <td>22.67</td> <td>22.14</td> <td>21.13</td> <td>22.00</td> <td>23.50</td> <td>23.00</td> <td>22.00</td> </tr> <tr> <td rowspan="10">16-QAM</td> <td>1</td> <td>0</td> <td>21.17</td> <td>22.71</td> <td>22.67</td> <td>22.17</td> <td>21.12</td> <td>22.00</td> <td>23.50</td> <td>23.00</td> <td>22.00</td> </tr> <tr> <td>1</td> <td>36</td> <td>21.16</td> <td>22.65</td> <td>22.56</td> <td>22.11</td> <td>21.05</td> <td>22.00</td> <td>23.50</td> <td>23.00</td> <td>22.00</td> </tr> <tr> <td>1</td> <td>74</td> <td>21.12</td> <td>22.71</td> <td>22.72</td> <td>22.12</td> <td>21.11</td> <td>22.00</td> <td>23.50</td> <td>23.00</td> <td>22.00</td> </tr> <tr> <td>36</td> <td>0</td> <td>20.18</td> <td>21.75</td> <td>21.70</td> <td>21.11</td> <td>20.10</td> <td>21.00</td> <td>22.50</td> <td>22.00</td> <td>21.00</td> </tr> <tr> <td>36</td> <td>18</td> <td>20.11</td> <td>21.64</td> <td>21.74</td> <td>21.09</td> <td>20.10</td> <td>21.00</td> <td>22.50</td> <td>22.00</td> <td>21.00</td> </tr> <tr> <td>36</td> <td>37</td> <td>20.18</td> <td>21.72</td> <td>21.66</td> <td>21.08</td> <td>20.07</td> <td>21.00</td> <td>22.50</td> <td>22.00</td> <td>21.00</td> </tr> <tr> <td>75</td> <td>0</td> <td>20.20</td> <td>21.82</td> <td>21.81</td> <td>21.17</td> <td>20.17</td> <td>21.00</td> <td>22.50</td> <td>22.00</td> <td>21.00</td> </tr> <tr> <td rowspan="10">64-QAM</td> <td>1</td> <td>0</td> <td>20.44</td> <td>22.06</td> <td>21.98</td> <td>21.41</td> <td>20.31</td> <td>21.00</td> <td>22.50</td> <td>22.00</td> <td>21.00</td> </tr> <tr> <td>1</td> <td>36</td> <td>20.32</td> <td>21.99</td> <td>21.94</td> <td>21.40</td> <td>20.15</td> <td>21.00</td> <td>22.50</td> <td>22.00</td> <td>21.00</td> </tr> <tr> <td>1</td> <td>74</td> <td>20.31</td> <td>21.92</td> <td>22.03</td> <td>21.42</td> <td>20.42</td> <td>21.00</td> <td>22.50</td> <td>22.00</td> <td>21.00</td> </tr> <tr> <td>36</td> <td>0</td> <td>19.42</td> <td>20.89</td> <td>21.00</td> <td>20.42</td> <td>19.36</td> <td>20.00</td> <td>21.50</td> <td>21.00</td> <td>20.00</td> </tr> <tr> <td>36</td> <td>18</td> <td>19.32</td> <td>20.88</td> <td>20.95</td> <td>20.28</td> <td>19.15</td> <td>20.00</td> <td>21.50</td> <td>21.00</td> <td>20.00</td> </tr> <tr> <td>36</td> <td>37</td> <td>19.24</td> <td>20.70</td> <td>20.85</td> <td>20.35</td> <td>19.29</td> <td>20.00</td> <td>21.50</td> <td>21.00</td> <td>20.00</td> </tr> <tr> <td>75</td> <td>0</td> <td>19.29</td> <td>20.77</td> <td>20.83</td> <td>20.30</td> <td>19.34</td> <td>20.00</td> <td>21.50</td> <td>21.00</td> <td>20.00</td> </tr> </tbody> </table>												BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)				Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690	Channel				39725	40173	40620	41068	41515	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590	15	QPSK	1	0	21.98	23.47	23.60	23.02	21.94	23.00	24.50	24.00	23.00	1	36	21.95	23.47	23.45	22.91	21.95	23.00	24.50	24.00	23.00	1	74	21.96	23.61	23.67	23.09	22.09	23.00	24.50	24.00	23.00	36	0	21.24	22.77	22.69	22.12	21.11	22.00	23.50	23.00	22.00	36	18	21.17	22.66	22.64	22.18	21.11	22.00	23.50	23.00	22.00	36	37	21.14	22.74	22.66	22.08	21.08	22.00	23.50	23.00	22.00	75	0	21.22	22.69	22.67	22.14	21.13	22.00	23.50	23.00	22.00	16-QAM	1	0	21.17	22.71	22.67	22.17	21.12	22.00	23.50	23.00	22.00	1	36	21.16	22.65	22.56	22.11	21.05	22.00	23.50	23.00	22.00	1	74	21.12	22.71	22.72	22.12	21.11	22.00	23.50	23.00	22.00	36	0	20.18	21.75	21.70	21.11	20.10	21.00	22.50	22.00	21.00	36	18	20.11	21.64	21.74	21.09	20.10	21.00	22.50	22.00	21.00	36	37	20.18	21.72	21.66	21.08	20.07	21.00	22.50	22.00	21.00	75	0	20.20	21.82	21.81	21.17	20.17	21.00	22.50	22.00	21.00	64-QAM	1	0	20.44	22.06	21.98	21.41	20.31	21.00	22.50	22.00	21.00	1	36	20.32	21.99	21.94	21.40	20.15	21.00	22.50	22.00	21.00	1	74	20.31	21.92	22.03	21.42	20.42	21.00	22.50	22.00	21.00	36	0	19.42	20.89	21.00	20.42	19.36	20.00	21.50	21.00	20.00	36	18	19.32	20.88	20.95	20.28	19.15	20.00	21.50	21.00	20.00	36	37	19.24	20.70	20.85	20.35	19.29	20.00	21.50	21.00	20.00	75	0	19.29	20.77	20.83	20.30	19.34	20.00	21.50	21.00	20.00
		BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)																																																																																																																																																																																																																																																																																				
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	15	QPSK	1	0	21.98	23.47	23.60	23.02	21.94	23.00	24.50	24.00	23.00																																																																																																																																																																																																																																																																																		
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			1	74	21.96	23.61	23.67	23.09	22.09	23.00	24.50	24.00	23.00																																																																																																																																																																																																																																																																																		
			36	0	21.24	22.77	22.69	22.12	21.11	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																		
			36	18	21.17	22.66	22.64	22.18	21.11	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																		
36			37	21.14	22.74	22.66	22.08	21.08	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																			
75			0	21.22	22.69	22.67	22.14	21.13	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																			
16-QAM			1	0	21.17	22.71	22.67	22.17	21.12	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																		
			1	36	21.16	22.65	22.56	22.11	21.05	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																		
			1	74	21.12	22.71	22.72	22.12	21.11	22.00	23.50	23.00	22.00																																																																																																																																																																																																																																																																																		
		36	0	20.18	21.75	21.70	21.11	20.10	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																			
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		36	37	20.18	21.72	21.66	21.08	20.07	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																			
		75	0	20.20	21.82	21.81	21.17	20.17	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																			
		64-QAM	1	0	20.44	22.06	21.98	21.41	20.31	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																		
			1	36	20.32	21.99	21.94	21.40	20.15	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																		
			1	74	20.31	21.92	22.03	21.42	20.42	21.00	22.50	22.00	21.00																																																																																																																																																																																																																																																																																		
36			0	19.42	20.89	21.00	20.42	19.36	20.00	21.50	21.00	20.00																																																																																																																																																																																																																																																																																			
36			18	19.32	20.88	20.95	20.28	19.15	20.00	21.50	21.00	20.00																																																																																																																																																																																																																																																																																			
36			37	19.24	20.70	20.85	20.35	19.29	20.00	21.50	21.00	20.00																																																																																																																																																																																																																																																																																			
75			0	19.29	20.77	20.83	20.30	19.34	20.00	21.50	21.00	20.00																																																																																																																																																																																																																																																																																			

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LTE Band 41														
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)					
Frequency (MHz)				2501	2547	2593	2639	2685	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690		
Channel				39700	40160	40620	41080	41540	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590		
10	QPSK	1	0	22.13	23.71	23.55	23.11	21.96	23.00	24.50	24.00	23.00		
		1	25	22.00	23.62	23.53	23.14	22.02	23.00	24.50	24.00	23.00		
		1	49	22.10	23.65	23.41	23.01	22.08	23.00	24.50	24.00	23.00		
		25	0	21.27	22.72	22.66	22.13	21.18	22.00	23.50	23.00	22.00		
		25	12	21.17	22.78	22.86	22.12	21.17	22.00	23.50	23.00	22.00		
		25	25	21.30	22.69	22.82	22.22	21.24	22.00	23.50	23.00	22.00		
		50	0	21.22	22.74	22.72	22.27	21.11	22.00	23.50	23.00	22.00		
		1	0	21.27	22.70	22.73	22.29	21.24	22.00	23.50	23.00	22.00		
		1	25	21.25	22.83	22.73	22.19	21.33	22.00	23.50	23.00	22.00		
		1	49	21.23	22.66	22.69	22.19	21.08	22.00	23.50	23.00	22.00		
	16-QAM	25	0	20.28	21.67	21.71	21.00	20.03	21.00	22.50	22.00	21.00		
		25	12	20.37	21.83	21.82	21.09	20.21	21.00	22.50	22.00	21.00		
		25	25	20.20	21.72	21.77	21.30	20.19	21.00	22.50	22.00	21.00		
		50	0	20.33	21.80	21.79	21.32	20.05	21.00	22.50	22.00	21.00		
		1	0	20.49	22.07	21.90	21.35	20.32	21.00	22.50	22.00	21.00		
		1	25	20.32	21.97	21.97	21.35	20.24	21.00	22.50	22.00	21.00		
		1	49	20.34	21.92	21.92	21.41	20.33	21.00	22.50	22.00	21.00		
		25	0	19.36	20.98	20.88	20.43	19.37	20.00	21.50	21.00	20.00		
		25	12	19.31	20.83	21.02	20.25	19.20	20.00	21.50	21.00	20.00		
		25	25	19.33	20.74	20.95	20.33	19.36	20.00	21.50	21.00	20.00		
	64-QAM	50	0	19.25	20.84	20.89	20.41	19.21	20.00	21.50	21.00	20.00		
		BW(MHz) Modulation RB Size RB Offset Conducted power (dBm) Target Power + Max. Tolerance (dBm)												
		Frequency (MHz)				2498.5	2547.8	2593	2640.3	2687.5	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690
		Channel				39675	40148	40620	41093	41565	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
		5	QPSK	1	0	22.12	23.69	23.61	23.03	22.16	23.00	24.50	24.00	23.00
1				12	22.15	23.59	23.58	22.93	21.99	23.00	24.50	24.00	23.00	
1				24	22.11	23.55	23.58	23.09	22.03	23.00	24.50	24.00	23.00	
12				0	21.21	22.74	22.75	22.17	21.12	22.00	23.50	23.00	22.00	
12				6	21.21	22.72	22.72	22.12	21.16	22.00	23.50	23.00	22.00	
12				13	21.11	22.67	22.65	22.12	21.14	22.00	23.50	23.00	22.00	
25	0			21.19	22.62	22.72	22.11	21.17	22.00	23.50	23.00	22.00		
1	0			21.55	23.01	23.02	21.99	21.42	22.00	23.50	23.00	22.00		
1	12			21.39	22.89	22.88	22.06	21.38	22.00	23.50	23.00	22.00		
1	24			21.51	23.06	23.10	22.44	21.47	22.00	23.50	23.00	22.00		
16-QAM	12		0	20.15	21.72	21.65	21.08	20.12	21.00	22.50	22.00	21.00		
	12		6	20.17	21.72	21.72	21.13	20.17	21.00	22.50	22.00	21.00		
	12		13	20.15	21.57	21.63	21.04	20.03	21.00	22.50	22.00	21.00		
	25		0	20.23	21.68	21.69	21.18	20.13	21.00	22.50	22.00	21.00		
	1		0	20.37	22.02	22.01	21.44	20.34	21.00	22.50	22.00	21.00		
	1		12	20.34	21.89	21.91	21.37	20.21	21.00	22.50	22.00	21.00		
	1		24	20.33	21.82	21.91	21.41	20.45	21.00	22.50	22.00	21.00		
	12		0	19.34	20.84	20.88	20.37	19.41	20.00	21.50	21.00	20.00		
	12		6	19.31	20.84	20.91	20.33	19.15	20.00	21.50	21.00	20.00		
	12		13	19.32	20.71	20.80	20.40	19.30	20.00	21.50	21.00	20.00		
64-QAM	25		0	19.34	20.84	20.90	20.38	19.30	20.00	21.50	21.00	20.00		

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LTE Band 41													
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)				
Frequency (MHz)			2506	2549.5	2593	2636.5	2680	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690		
Channel			39750	40185	40620	41055	41490	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590		
20	QPSK	1	0	13.25	13.12	13.06	13.08	13.25	14.00	14.00	14.00		
		1	50	13.25	13.15	13.22	13.07	13.24	14.00	14.00	14.00		
		1	99	13.08	13.23	13.12	13.01	13.19	14.00	14.00	14.00		
		50	0	13.12	13.26	13.19	13.07	13.29	14.00	14.00	14.00		
		50	25	13.23	13.02	13.02	13.24	13.03	14.00	14.00	14.00		
		50	50	13.04	13.11	12.93	13.08	13.23	14.00	14.00	14.00		
	100	0	13.07	13.28	13.33	13.15	13.23	14.00	14.00	14.00	14.00		
	16-QAM	1	0	13.09	13.28	13.12	13.17	13.02	14.00	14.00	14.00		
		1	50	13.01	13.20	13.22	13.23	13.14	14.00	14.00	14.00		
		1	99	13.19	13.14	13.03	13.17	13.05	14.00	14.00	14.00		
		50	0	13.20	13.16	13.27	13.13	13.04	14.00	14.00	14.00		
		50	25	13.11	13.11	13.23	13.23	13.05	14.00	14.00	14.00		
		50	50	13.19	13.11	13.15	13.01	13.25	14.00	14.00	14.00		
	100	0	13.23	13.22	13.05	13.13	13.05	14.00	14.00	14.00	14.00		
	64-QAM	1	0	13.01	13.13	13.13	13.30	13.29	14.00	14.00	14.00		
		1	50	13.23	13.05	13.20	13.29	13.10	14.00	14.00	14.00		
		1	99	13.25	13.29	13.00	13.15	13.16	14.00	14.00	14.00		
		50	0	13.10	13.06	13.01	13.27	13.03	14.00	14.00	14.00		
		50	25	13.24	13.27	13.23	13.27	13.09	14.00	14.00	14.00		
		50	50	13.16	13.09	13.09	13.14	13.29	14.00	14.00	14.00		
	100	0	13.01	13.19	13.27	13.02	13.03	14.00	14.00	14.00	14.00		
	LTE Band 41												
	BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)			
	Frequency (MHz)			2503.5	2548.3	2593	2637.8	2682.5	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690	
Channel			39725	40173	40620	41068	41515	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590		
15	QPSK	1	0	13.28	13.18	13.24	13.16	13.15	14.00	14.00	14.00		
		1	36	13.28	13.25	13.28	13.01	13.24	14.00	14.00	14.00		
		1	74	13.07	13.20	13.26	13.07	13.07	14.00	14.00	14.00		
		36	0	13.14	13.15	13.13	13.12	13.23	14.00	14.00	14.00		
		36	18	13.15	13.30	13.24	13.27	13.19	14.00	14.00	14.00		
		36	37	13.17	13.28	13.13	13.08	13.25	14.00	14.00	14.00		
	75	0	13.04	13.15	13.26	13.07	13.10	14.00	14.00	14.00	14.00		
	16-QAM	1	0	13.15	13.15	13.21	13.05	13.26	14.00	14.00	14.00		
		1	36	13.27	13.29	13.02	13.13	13.09	14.00	14.00	14.00		
		1	74	13.17	13.27	13.21	13.00	13.01	14.00	14.00	14.00		
		36	0	13.23	13.30	13.12	13.13	13.22	14.00	14.00	14.00		
		36	18	13.24	13.02	13.01	13.29	13.09	14.00	14.00	14.00		
		36	37	13.07	13.18	13.06	13.17	13.28	14.00	14.00	14.00		
	75	0	13.00	13.06	13.05	13.07	13.07	14.00	14.00	14.00	14.00		
	64-QAM	1	0	13.25	13.09	13.01	13.11	13.01	14.00	14.00	14.00		
		1	36	13.12	13.01	13.14	13.05	13.25	14.00	14.00	14.00		
		1	74	13.18	13.10	13.25	13.24	13.12	14.00	14.00	14.00		
		36	0	13.12	13.09	13.26	13.12	13.23	14.00	14.00	14.00		
		36	18	13.22	13.27	13.23	13.04	13.17	14.00	14.00	14.00		
		36	37	13.01	13.09	13.13	13.21	13.26	14.00	14.00	14.00		
	75	0	13.08	13.10	13.13	13.18	13.22	14.00	14.00	14.00	14.00		

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LTE Band 41													
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)				
Frequency (MHz)				2501	2547	2593	2639	2685	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690	
Channel				39700	40160	40620	41080	41540	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590	
10	QPSK	1	0	13.21	13.21	13.15	13.06	13.20	14.00	14.00	14.00	14.00	
		1	25	13.20	13.06	13.21	13.04	13.15	14.00	14.00	14.00	14.00	
		1	49	13.18	13.29	13.09	13.14	13.02	14.00	14.00	14.00	14.00	
		25	0	13.16	13.20	13.25	13.30	13.00	14.00	14.00	14.00	14.00	
		25	12	13.19	13.28	13.13	13.27	13.25	14.00	14.00	14.00	14.00	
		25	25	13.11	13.28	13.14	13.09	13.01	14.00	14.00	14.00	14.00	
	16-QAM	50	0	13.31	13.27	13.19	13.12	13.13	14.00	14.00	14.00	14.00	
		1	0	13.05	13.19	13.23	13.12	13.27	14.00	14.00	14.00	14.00	
		1	25	13.29	13.14	13.07	13.29	13.18	14.00	14.00	14.00	14.00	
		1	49	13.15	13.27	13.03	13.06	13.11	14.00	14.00	14.00	14.00	
		25	0	13.20	13.18	13.23	13.03	13.12	14.00	14.00	14.00	14.00	
		25	12	13.10	13.02	13.13	13.25	13.20	14.00	14.00	14.00	14.00	
	64-QAM	25	25	13.21	13.19	13.11	13.25	13.29	14.00	14.00	14.00	14.00	
		50	0	13.28	13.24	13.02	13.18	13.00	14.00	14.00	14.00	14.00	
		1	0	13.04	13.19	13.11	13.08	13.08	14.00	14.00	14.00	14.00	
		1	25	13.09	13.25	13.29	13.28	13.08	14.00	14.00	14.00	14.00	
		1	49	13.07	13.01	13.25	13.03	13.04	14.00	14.00	14.00	14.00	
		25	0	13.09	13.21	13.06	13.25	13.17	14.00	14.00	14.00	14.00	
	5	QPSK	25	12	13.23	13.27	13.27	13.26	13.21	14.00	14.00	14.00	14.00
			25	25	13.10	13.20	13.17	13.10	13.15	14.00	14.00	14.00	14.00
			50	0	13.30	13.01	13.27	13.08	13.23	14.00	14.00	14.00	14.00
1			0	13.09	13.07	13.15	13.24	13.10	14.00	14.00	14.00	14.00	
1			12	13.19	13.05	13.07	13.29	13.08	14.00	14.00	14.00	14.00	
1			24	13.04	13.06	13.29	13.18	13.05	14.00	14.00	14.00	14.00	
16-QAM		12	0	13.27	13.04	13.09	13.06	13.31	14.00	14.00	14.00	14.00	
		12	6	13.14	13.3	13.28	13.23	13.01	14.00	14.00	14.00	14.00	
		12	13	13.28	13.15	13.18	13.02	13.24	14.00	14.00	14.00	14.00	
		25	0	13.13	13.16	13.14	13.06	13.26	14.00	14.00	14.00	14.00	
		1	0	13.27	13.19	13.25	13.29	13.02	14.00	14.00	14.00	14.00	
		1	12	13.26	13.21	13.22	13.25	13.26	14.00	14.00	14.00	14.00	
64-QAM		1	24	13.21	13.08	13.20	13.23	13.02	14.00	14.00	14.00	14.00	
		12	0	13.25	13.26	13.01	13.23	13.08	14.00	14.00	14.00	14.00	
		12	6	13.27	13.1	13.24	13.08	13.13	14.00	14.00	14.00	14.00	
	12	13	13.23	13.25	13.03	13.16	13.13	14.00	14.00	14.00	14.00		
	25	0	13.06	13.12	13.02	13.18	13.25	14.00	14.00	14.00	14.00		
	1	0	13.17	13.23	13.22	13.30	13.00	14.00	14.00	14.00	14.00		

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

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	12.00	11.55
		2	2417		15.00	14.82
		6	2437		15.00	14.80
		10	2457		15.00	14.88
		11	2462		12.00	11.75
	802.11g	1	2412	6Mbps	12.00	11.79
		2	2417		15.00	14.75
		6	2437		15.00	14.54
		10	2457		15.00	14.79
		11	2462		12.00	11.84
	802.11n20-HT0	1	2412	MCS0	12.00	11.80
		2	2417		15.00	14.72
		6	2437		15.00	14.54
		10	2457		15.00	14.84
		11	2462		12.00	11.90

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	11.00	10.61
		44	5220		12.00	11.80
		48	5240		12.00	11.71
	802.11n20-HT0	36	5180	MCS0	11.00	10.64
		44	5220		12.00	11.85
		48	5240		12.00	11.80
	802.11ac20-VHT0	36	5180	MCS0	11.00	10.60
		44	5220		12.00	11.76
		48	5240		12.00	11.71
	802.11n40-HT0	38	5190	MCS0	11.00	10.73
		46	5230		12.00	11.71
	802.11ac40-VHT0	38	5190	MCS0	11.00	10.57
		46	5230		12.00	11.66
	802.11ac80-VHT0	42	5210	MCS0	12.00	11.85

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.00	11.73
		60	5300		12.00	11.55
		64	5320		11.00	10.58
	802.11n20-HT0	52	5260	MCS0	12.00	11.76
		60	5300		12.00	11.52
		64	5320		11.00	10.68
	802.11ac20-VHT0	52	5260	MCS0	12.00	11.68
		60	5300		12.00	11.51
		64	5320		11.00	10.52
	802.11n40-HT0	54	5270	MCS0	12.00	11.66
		62	5310		11.00	10.77
	802.11ac40-VHT0	54	5270	MCS0	12.00	11.64
		62	5310		11.00	10.80
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.64

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	11.00	10.60
		116	5580		12.00	11.82
		140	5700		11.00	10.68
		144	5720		12.00	11.71
	802.11n20-HT0	100	5500	MCS0	11.00	10.61
		116	5580		12.00	11.85
		140	5700		11.00	10.64
		144	5720		12.00	11.73
	802.11ac20-VHT0	100	5500	MCS0	11.00	10.64
		116	5580		12.00	11.74
		140	5700		11.00	10.57
		144	5720		12.00	11.70
	802.11n40-HT0	102	5510	MCS0	11.00	10.78
		110	5550		12.00	11.57
		134	5670		11.00	10.53
		142	5710		12.00	11.79
	802.11ac40-VHT0	102	5510	MCS0	11.00	10.75
		110	5550		12.00	11.52
		134	5670		11.00	10.56
		142	5710		12.00	11.69
	802.11ac80-VHT0	106	5530	MCS0	12.00	11.83
		122	5610		12.00	11.55
		138	5690		12.00	11.91

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	11.00	10.70
		157	5785		12.00	11.75
		165	5825		11.00	10.78
	802.11n20-HT0	149	5745	MCS0	11.00	10.62
		157	5785		12.00	11.68
		165	5825		11.00	10.64
	802.11ac20-VHT0	149	5745	MCS0	11.00	10.56
		157	5785		12.00	11.66
		165	5825		11.00	10.61
	802.11n40-HT0	151	5755	MCS0	11.00	10.50
		159	5795		11.00	10.53
	802.11ac40-VHT0	151	5755	MCS0	11.00	10.48
		159	5795		11.00	10.57
	802.11ac80-VHT0	155	5775	MCS0	12.00	11.56

Bluetooth maximum power table:

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)			Max. Rated Avg. Power + Max. Tolerance (dBm)
			1Mbps	2Mbps	3Mbps	
BR/EDR	CH 00	2402	9.35	7.12	7.04	12.6
	CH 39	2441	10.61	7.78	7.73	
	CH 78	2480	9.16	7.09	7.01	
Mode	Channel	Frequency (MHz)	Average Output Power (dBm)			Max. Rated Avg. Power + Max. Tolerance (dBm)
			GFSK			
LE	CH 00	2402	3.50			12.6
	CH 19	2442	5.24			
	CH 39	2480	5.21			
LE_2M	CH 00	2402	3.80			
	CH 19	2442	5.78			
	CH 39	2480	5.56			

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BT_duty(2.88/3.75=0.768)

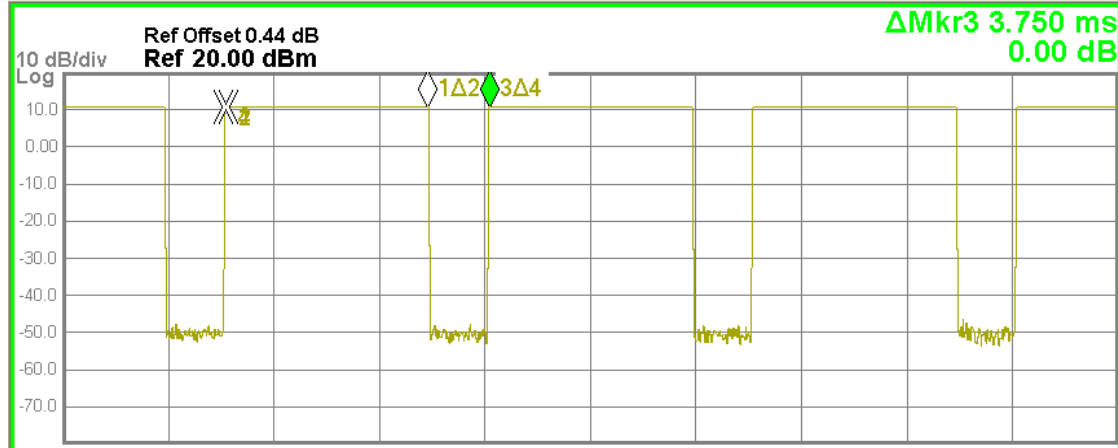
Center Freq 2.44100000 GHz

PN0: Fast
IFGain:Low

Trig: Free Run
#Atten: 30 dB

Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6
TYPE WWWWWWWWWW
DET P N N N N N



Center 2.44100000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 15.00 ms (1001 pts)

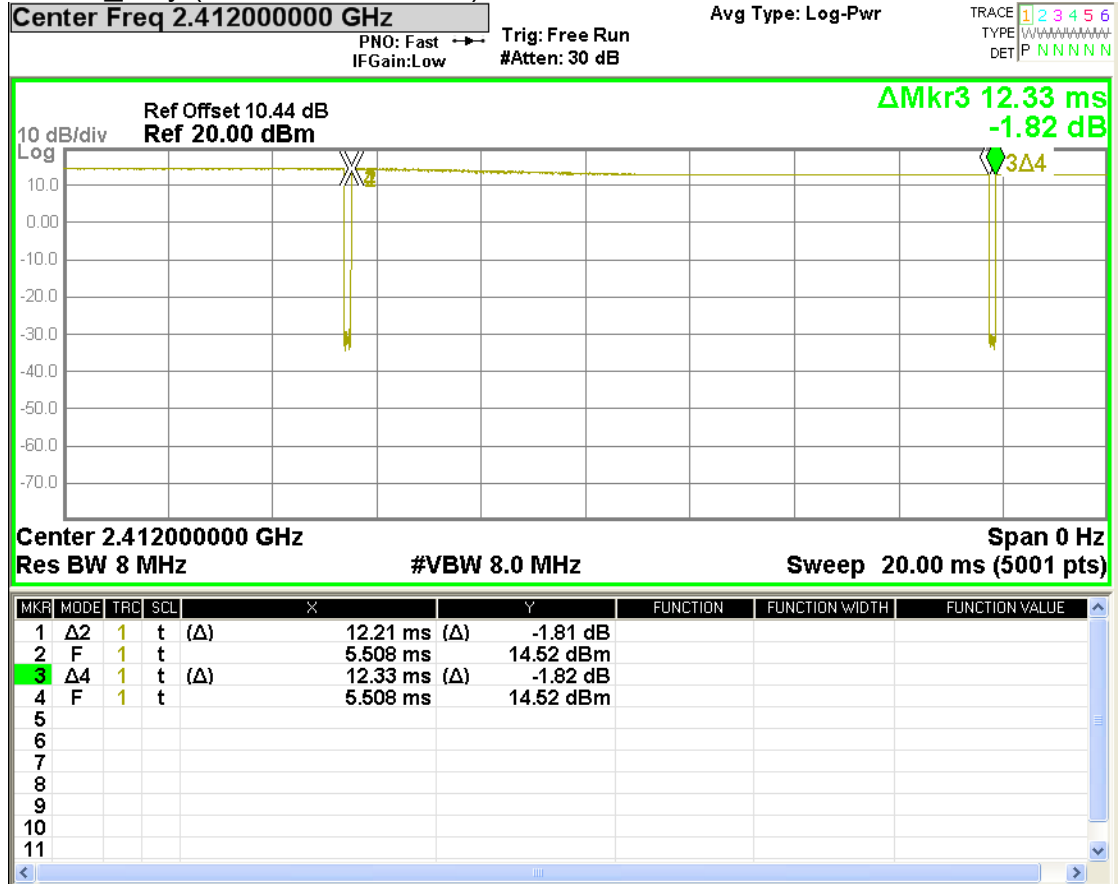
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	2.880 ms (Δ)	-0.02 dB		
2	F	1	t	(Δ)	2.310 ms	10.70 dBm		
3	Δ4	1	t	(Δ)	3.750 ms (Δ)	0.00 dB		
4	F	1	t		2.310 ms	10.70 dBm		
5								
6								
7								
8								
9								
10								
11								

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2.4G b_duty (12.21/12.33=0.990)



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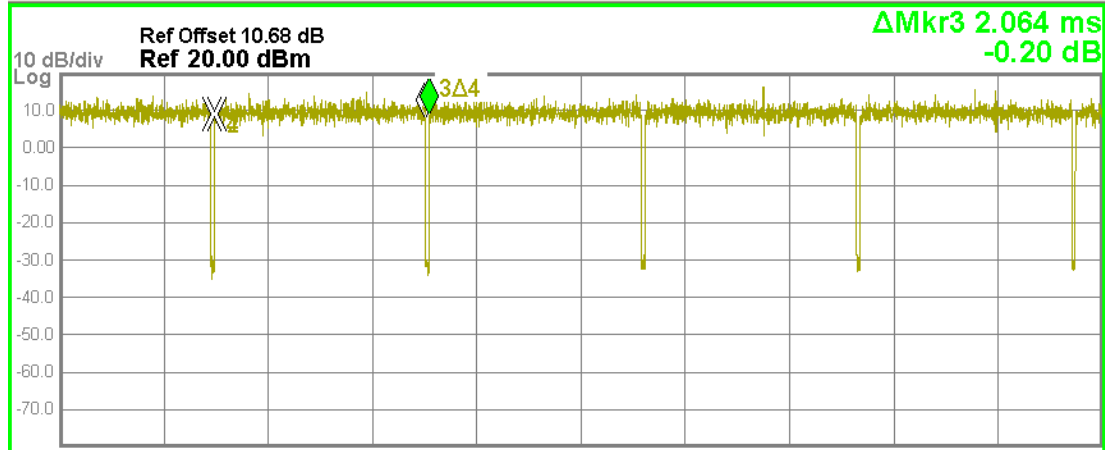
5G a_duty(2.028/2.064=0.983)

Center Freq 5.18000000 GHz

PNO: Fast Trig: Free Run
IFGain:Low #Atten: 30 dB

Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6
TYPE W W W W W W W W
DET P N N N N N N



Center 5.18000000 GHz Span 0 Hz
Res BW 8 MHz #VBW 8.0 MHz Sweep 10.00 ms (5001 pts)

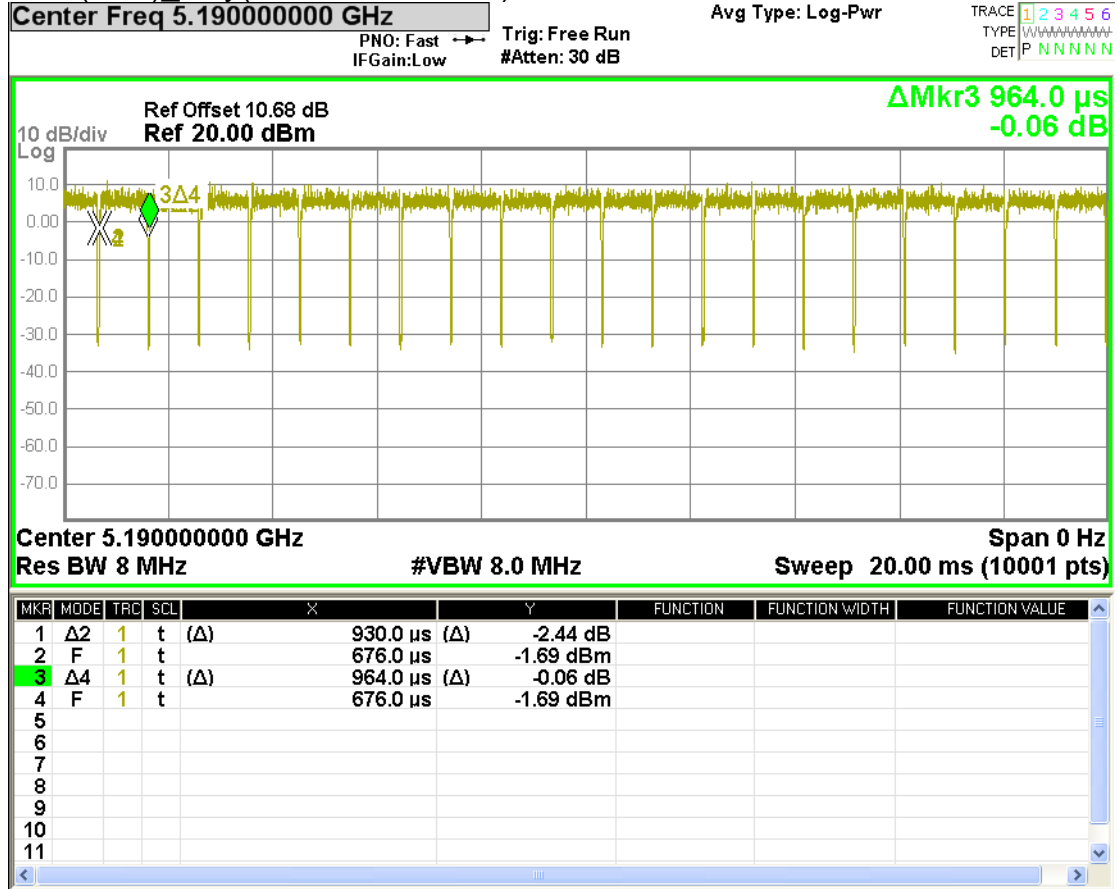
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ) 2.028 ms	(Δ) -1.30 dB			
2	F	1	t	1.482 ms	9.04 dBm			
3	Δ 4	1	t	(Δ) 2.064 ms	(Δ) -0.20 dB			
4	F	1	t	1.482 ms	9.04 dBm			
5								
6								
7								
8								
9								
10								
11								

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5G n(40M) duty(0.93/0.964=0.965)



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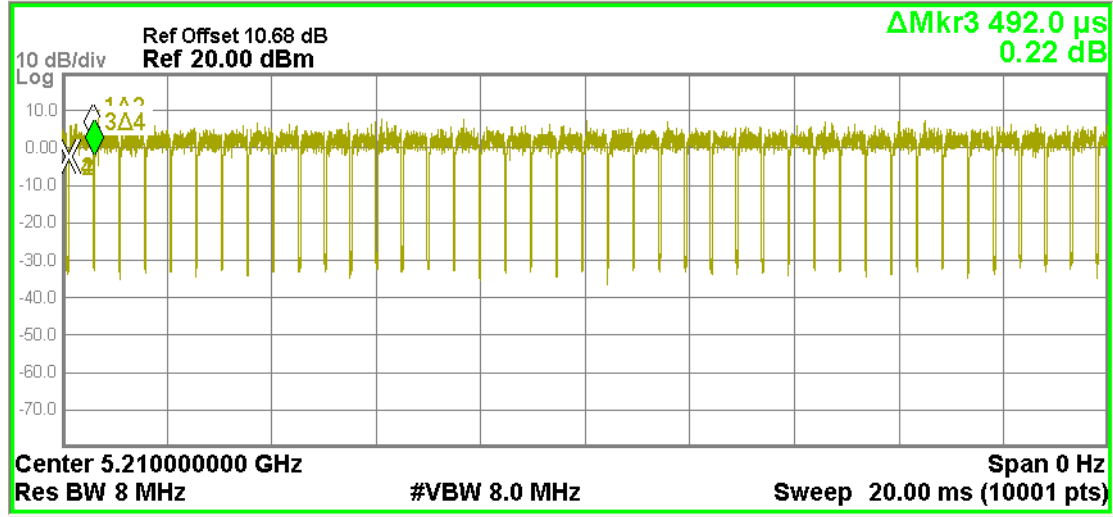
5G ac(80M)_duty(0.456/0.492=0.927)

Center Freq 5.21000000 GHz

Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6
TYPE W W W W W W W W W W
DET P N N N N N N

PNO: Fast → Trig: Free Run
IFGain:Low #Atten: 30 dB



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	456.0 μs (Δ)	4.19 dB		
2	F	1	t	(Δ)	120.0 μs	-2.26 dBm		
3	Δ4	1	t	(Δ)	492.0 μs (Δ)	0.22 dB		
4	F	1	t	(Δ)	120.0 μs	-2.26 dBm		
5								
6								
7								
8								
9								
10								
11								

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1.4 Test Environment

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

1.5 Operation Description

1. The EUT is controlled by using a Radio Communication Tester (MT8820C), and the communication between the EUT and the tester is established by air link.
2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
3. 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.
4. SAR test reduction for GPRS mode is determined by the source-based time-averaged output power. The data mode with highest specified time-averaged output power should be tested for SAR compliance.
5. 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).

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

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.
 Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{HS} = 24/15 * \beta_c$.
 Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
 Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_s = 11/15$ and $\beta_d = 15/15$.

6. 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).

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Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	$\beta_{HS}^{(1)}$	β_{cc}	$\beta_{ed}^{(4/5)}$	β_{ed} (SF)	β_{ed} (Codes)	CM ⁽²⁾ (dB)	MPR ^(2/5) (dB)	AG ⁽⁵⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	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	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

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

7. LTE modes test according to **KDB 941225D05v02r05**.

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

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

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

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

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

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

d. Per Section 5.2.4, Higher order modulations

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

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½ 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 > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 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, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

WLAN

802.11b DSSS SAR Test Requirements:

8. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
9. 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.

802.11g/n OFDM SAR Test Exclusion Requirements:

10. SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

Initial Test Configuration:

11. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the

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highest maximum output power specified for production units in each standalone and aggregated frequency band.

12. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
13. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.
14. According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.
15. According to **KDB865664D01v01r04**, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit)
16. In order to get better user experience, the device implements antenna-switching diversity which means WWAN TX diversity for LTE B41. In the case both WWAN Ant1 and WWAN Ant3 were tested separately based on FCC guidance.

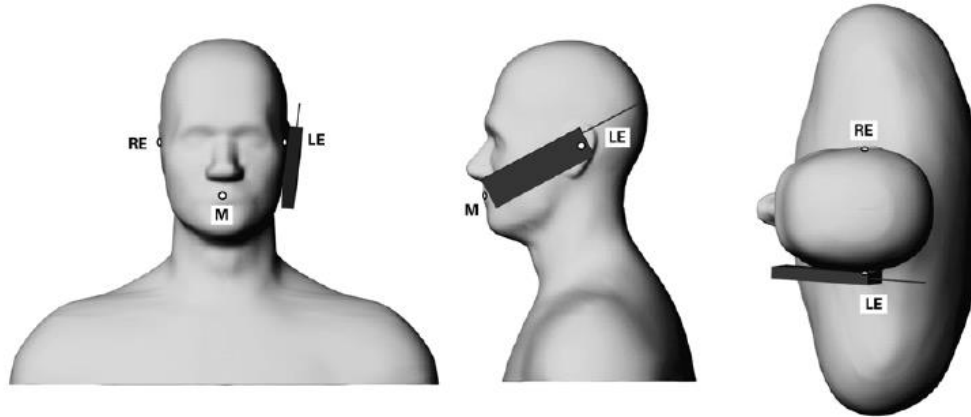
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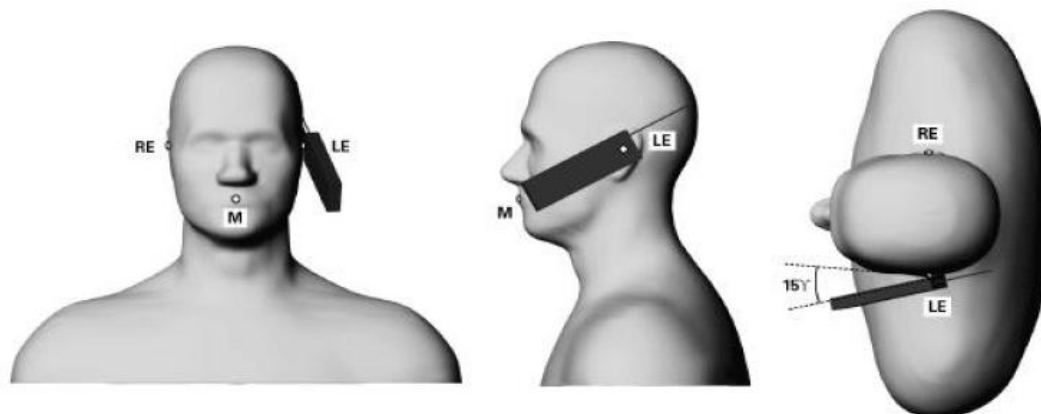
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1.6 Positioning Procedure

Head SAR measurement statement



Phone position 1, “cheek” or “touch” position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.



Phone position 2, “tilted position.” The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.

Cheek/Touch Position:

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

Ear/Tilt Position:

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

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Body SAR measurement statement

1. Body-worn exposure: 10mm

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

2. Hotspot exposure: 10mm

A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge when the form factor of a handset is larger than 9 cm \times 5 cm.

3. Phablet SAR test consideration

When the device is a phablet (overall diagonal dimension > 16.0 cm), the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR. Since the device is not a phablet, product specific 10-g SAR is not required.

4. Based on KDB941225D06v02r01, the hotspot mode and body-worn accessory SAR test configurations may overlap for handsets. When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations. For WCDMA / LTE / WLAN, since the maximum power is the same between body-worn and hotspot mode, and the test distance of hotspot mode is the same with that of body-worn mode, hotspot mode SAR is used to support body-worn SAR. For GSM850/1900, since the wireless mode transmission configurations is different between body-worn and hotspot mode, body-worn SAR is performed.

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1.7 Evaluation Procedures

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

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

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

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

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

The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30x30x30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D 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

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the 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.

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1.8 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:

1.8.1 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 ($\sigma \tau / \delta t$) in the liquid.

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

Whereby σ is the conductivity, ρ the density and c the heat capacity of the liquid.

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

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

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small.

2. The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
3. The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ($\sim 2\%$ for c ; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed $\pm 5\%$.
4. Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

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

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1.8.2 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.
3. Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

References

- (1) N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
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- (3) K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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1.9 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). Model EX3DV4 field probes are used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

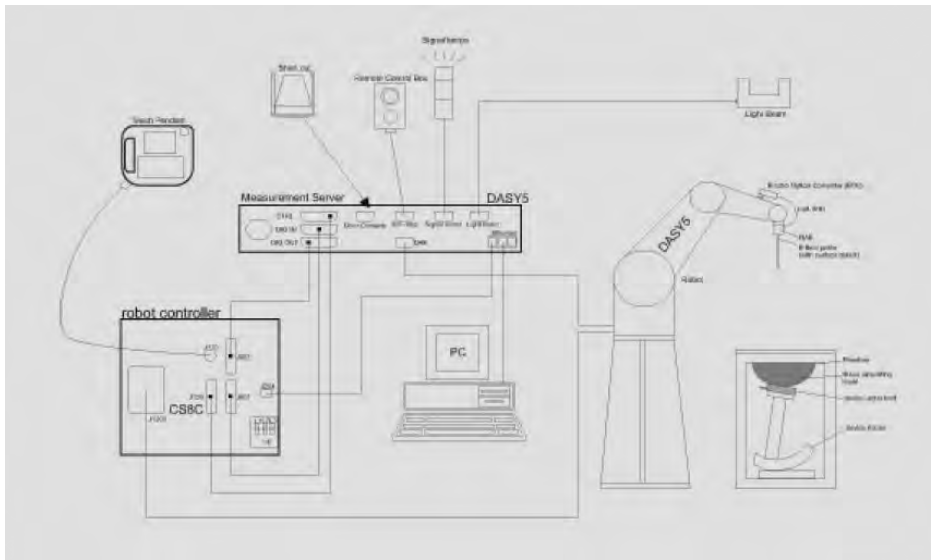


Fig. a A block diagram of the SAR measurement system

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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. 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.
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 Windows7
8. DASY 5 software.
9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
10. The SAM twin phantom enabling testing left-hand and right-hand usage.
11. The device holder for handheld mobile phones.
12. Tissue simulating liquid mixed according to the given recipes.
13. Validation dipole kits allowing to validate the proper functioning of the system.


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1.10 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 HSL750/835/1900/2450/2600/5200/5300/ 5600/5800 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz, Linearity: ± 0.6 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	


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Phantom

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

DEVICE HOLDER

Construction	<p>In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).</p>	 <p style="text-align: center;">Device Holder</p>
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1.11 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% (according to KDB865664D01) from the target SAR values. These tests were done at 750/835/1900/2450/2600/5200/5300/5600/5800 MHz. 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. During the tests, the liquid depth above the ear reference points was above 15 cm ($\leq 3G$) or 10 cm ($> 3G$) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

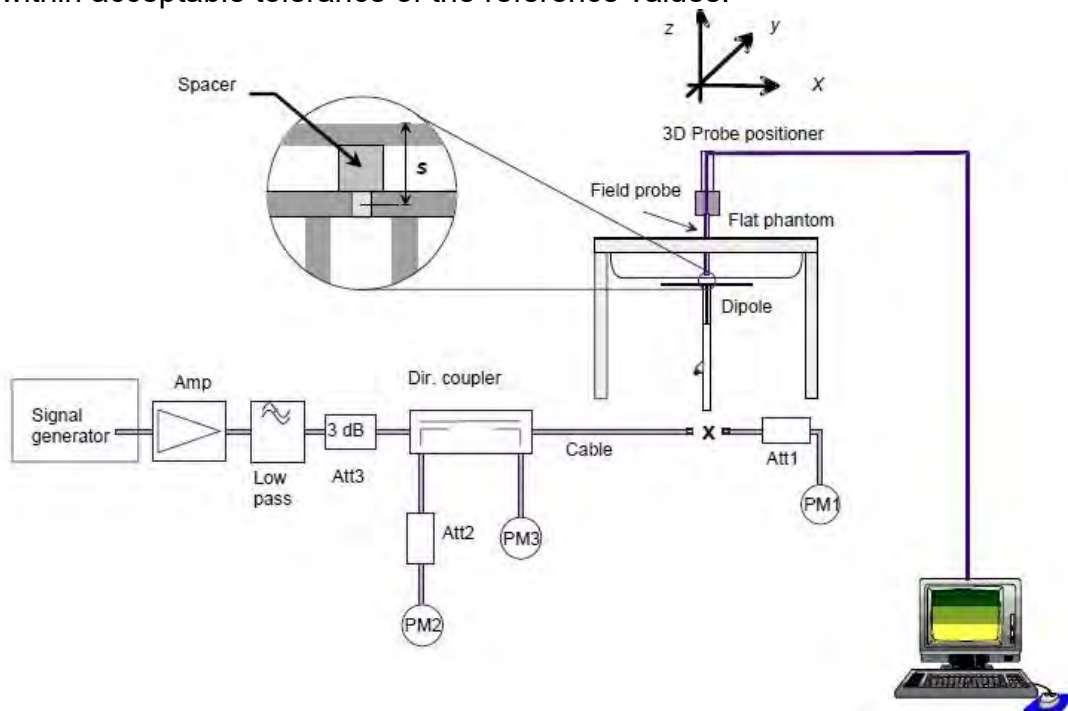


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V3	1015	750	Head	8.48	2.14	8.56	0.94%	Dec, 16, 2020
D835V2	4d063	835	Head	9.52	2.39	9.56	0.42%	Dec, 17, 2020
D1900V2	5d173	1900	Head	39.4	9.76	39.04	-0.91%	Dec, 18, 2020
D2450V2	727	2450	Head	52.6	13.20	52.80	0.38%	Dec, 19, 2020
D2600V2	1005	2600	Head	57.3	14.60	58.40	1.92%	Dec, 19, 2020
				57.3	14.70	58.80	2.62%	Dec, 20, 2020
				57.3	14.90	59.60	4.01%	Dec, 21, 2020
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	80.1	8.14	81.40	1.62%	Dec, 20, 2020
	1023	5300	Head	82.8	8.39	83.90	1.33%	Dec, 20, 2020
	1023	5600	Head	83.1	8.23	82.30	-0.96%	Dec, 21, 2020
	1023	5800	Head	81.4	8.07	80.70	-0.86%	Dec, 21, 2020

Table 1. Results of system validation

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1.12 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was at least 15 cm ($\leq 3G$) or 10 cm ($> 3G$) during all tests. (Appendix Fig. 2)

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Dec, 16. 2020	704	42.181	0.890	42.607	0.894	1.01%	0.47%
		707.5	42.162	0.890	42.597	0.895	1.03%	0.55%
		709	42.155	0.890	42.568	0.897	0.98%	0.77%
		710	42.149	0.890	42.559	0.898	0.97%	0.87%
		711	42.144	0.890	42.557	0.899	0.98%	0.97%
		750	41.942	0.893	42.365	0.900	1.01%	0.74%
	Dec, 17. 2020	824.2	41.556	0.899	41.922	0.903	0.88%	0.43%
		826.4	41.545	0.899	41.902	0.905	0.86%	0.63%
		829	41.531	0.900	41.892	0.906	0.87%	0.72%
		835	41.500	0.900	41.874	0.907	0.90%	0.78%
		836.5	41.500	0.902	41.844	0.908	0.83%	0.71%
		836.6	41.500	0.902	41.844	0.909	0.83%	0.81%
		844	41.500	0.910	41.843	0.917	0.83%	0.80%
		846.6	41.500	0.912	41.840	0.920	0.82%	0.82%
	Dec, 18. 2020	848.8	41.500	0.915	41.834	0.922	0.80%	0.78%
		1850.2	40.000	1.400	39.890	1.383	-0.27%	-1.21%
		1880	40.000	1.400	39.886	1.385	-0.28%	-1.07%
		1900	40.000	1.400	39.881	1.387	-0.30%	-0.93%
	Dec, 19. 2020	1909.8	40.000	1.400	39.877	1.388	-0.31%	-0.86%
		2441	39.216	1.792	38.824	1.770	-1.00%	-1.23%
		2450	39.200	1.800	38.804	1.778	-1.01%	-1.22%
	Dec, 19. 2020	2457	39.191	1.808	38.799	1.787	-1.00%	-1.14%
		2580	39.035	1.942	39.253	1.940	0.56%	-0.09%
		2595	39.015	1.958	39.243	1.956	0.58%	-0.11%
		2600	39.009	1.964	39.239	1.962	0.59%	-0.08%
	Dec, 20. 2020	2610	38.996	1.975	39.219	1.972	0.57%	-0.13%
		2506	39.129	1.861	39.344	1.859	0.55%	-0.11%
		2549.5	39.073	1.909	39.304	1.908	0.59%	-0.03%
		2593	39.018	1.956	39.268	1.955	0.64%	-0.05%
		2600	39.009	1.964	39.255	1.963	0.63%	-0.03%
		2636.5	38.963	2.003	39.193	2.001	0.59%	-0.12%
			2680	38.907	2.051	39.137	2.049	0.59%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Dec, 21. 2020	2506	39.129	1.861	39.367	1.858	0.61%	-0.17%
		2549.5	39.073	1.909	39.296	1.907	0.57%	-0.08%
		2593	39.018	1.956	39.237	1.953	0.56%	-0.15%
		2600	39.009	1.964	39.224	1.961	0.55%	-0.13%
		2636.5	38.963	2.003	39.212	2.002	0.64%	-0.07%
		2680	38.907	2.051	39.121	2.049	0.55%	-0.09%
	Dec, 20. 2020	5200	35.986	4.655	35.631	4.597	-0.99%	-1.25%
		5210	35.974	4.665	35.629	4.610	-0.96%	-1.18%
		5290	35.883	4.747	35.538	4.689	-0.96%	-1.23%
		5300	35.871	4.758	35.498	4.701	-1.04%	-1.19%
	Dec, 21. 2020	5600	35.529	5.065	35.173	5.006	-1.00%	-1.16%
		5690	35.426	5.157	35.086	5.094	-0.96%	-1.23%
		5775	35.329	5.244	34.986	5.182	-0.97%	-1.19%
		5800	35.300	5.270	34.947	5.208	-1.00%	-1.18%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the 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)
1900	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
2450	Head	550ml	450ml	—	—	—	—	1.0L(Kg)
2600	Head	550ml	450ml	—	—	—	—	1.0L(Kg)

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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1.13 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 a 10 grams of tissue (defined as a tissue volume in the shape of a cube).

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.

2. 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).

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Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

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

GSM 850

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head (GSM)	Re Cheek	-	128	824.2	33.50	32.91	114.55%	0.17	0.19	86
	Re Cheek	-	190	836.6	33.50	32.34	130.62%	0.15	0.20	-
	Re Cheek	-	251	848.8	33.50	32.41	128.53%	0.16	0.21	-
	Re Tilt	-	128	824.2	33.50	32.91	114.55%	0.09	0.10	-
	Le Cheek	-	128	824.2	33.50	32.91	114.55%	0.15	0.17	-
	Le Tilt	-	128	824.2	33.50	32.91	114.55%	0.07	0.08	-
Body-worn (GSM)	Front side	10	128	824.2	33.50	32.91	114.55%	0.13	0.15	87
	Front side	10	190	836.6	33.50	32.34	130.62%	0.12	0.16	-
	Front side	10	251	848.8	33.50	32.41	128.53%	0.12	0.15	-
	Back side	10	128	824.2	33.50	32.91	114.55%	0.11	0.13	-
Hotspot (GPRS) <1Dn4Up>	Front side	10	251	848.8	28.50	27.31	131.52%	0.09	0.12	-
	Back side	10	251	848.8	28.50	27.31	131.52%	0.08	0.11	-
	Top side	10	251	848.8	28.50	27.31	131.52%	0.00	0.00	-
	Bottom side	10	251	848.8	28.50	27.31	131.52%	0.11	0.14	-
	Right side	10	128	824.2	28.50	27.23	133.97%	0.37	0.50	88
	Right side	10	190	836.6	28.50	27.27	132.74%	0.26	0.35	-
	Right side	10	251	848.8	28.50	27.31	131.52%	0.18	0.24	-
	Left side	10	251	848.8	28.50	27.31	131.52%	0.08	0.11	-

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GSM 1900

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head (GSM)	Re Cheek	-	512	1850.2	30.50	29.95	113.50%	0.06	0.07	-
	Re Cheek	-	661	1880	30.50	29.85	116.14%	0.06	0.07	-
	Re Cheek	-	810	1909.8	30.50	29.83	116.68%	0.07	0.08	89
	Re Tilt	-	512	1850.2	30.50	29.95	113.50%	0.02	0.02	-
	Le Cheek	-	512	1850.2	30.50	29.95	113.50%	0.03	0.03	-
	Le Tilt	-	512	1850.2	30.50	29.95	113.50%	0.03	0.03	-
Body-worn (GSM)	Front side	10	512	1850.2	30.50	29.95	113.50%	0.21	0.24	-
	Front side	10	661	1880	30.50	29.85	116.14%	0.21	0.24	-
	Front side	10	810	1909.8	30.50	29.83	116.68%	0.21	0.25	90
	Back side	10	512	1850.2	30.50	29.95	113.50%	0.20	0.23	-
Hotspot (GPRS) <1Dn4Up>	Front side	10	512	1850.2	25.50	24.14	136.77%	0.19	0.26	-
	Back side	10	512	1850.2	25.50	24.14	136.77%	0.12	0.16	-
	Top side	10	512	1850.2	25.50	24.14	136.77%	0.02	0.03	-
	Bottom side	10	512	1850.2	25.50	24.14	136.77%	0.41	0.56	-
	Bottom side	10	661	1880	25.50	23.98	141.91%	0.40	0.57	-
	Bottom side	10	810	1909.8	25.50	23.97	142.23%	0.44	0.63	91
	Right side	10	512	1850.2	25.50	24.14	136.77%	0.03	0.04	-
	Left side	10	512	1850.2	25.50	24.14	136.77%	0.07	0.10	-

WCDMA Band V

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	RE Cheek	-	4132	826.4	25.00	24.37	115.61%	0.21	0.24	-
	RE Cheek	-	4183	836.6	25.00	24.36	115.88%	0.21	0.24	-
	RE Cheek	-	4233	846.6	25.00	24.39	115.08%	0.24	0.28	92
	RE Tilt	-	4233	846.6	25.00	24.39	115.08%	0.09	0.10	-
	LE Cheek	-	4233	846.6	25.00	24.39	115.08%	0.20	0.23	-
	LE Tilt	-	4233	846.6	25.00	24.39	115.08%	0.11	0.13	-
Body-Worn	Front side	10	4233	846.6	25.00	24.39	115.08%	0.21	0.24	-
	Back side	10	4233	846.6	25.00	24.39	115.08%	0.18	0.21	-
Hotspot	Front side	10	4233	846.6	25.00	24.39	115.08%	0.21	0.24	-
	Back side	10	4233	846.6	25.00	24.39	115.08%	0.18	0.21	-
	Top side	10	4233	846.6	25.00	24.39	115.08%	0.01	0.01	-
	Bottom side	10	4233	846.6	25.00	24.39	115.08%	0.20	0.23	-
	Right side	10	4132	826.4	25.00	24.37	115.61%	0.46	0.53	93
	Right side	10	4183	836.6	25.00	24.36	115.88%	0.42	0.49	-
	Right side	10	4233	846.6	25.00	24.39	115.08%	0.35	0.40	-
	Left side	10	4233	846.6	25.00	24.39	115.08%	0.18	0.21	-

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LTE FDD Band 5

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page			
												Measured	Reported				
Head	10MHz	QPSK	1 RB	0	RE Cheek	-	20525	836.5	24.00	23.40	114.82%	0.18	0.21	-			
					RE Tilt	-	20525	836.5	24.00	23.40	114.82%	0.06	0.07	-			
					LE Cheek	-	20525	836.5	24.00	23.40	114.82%	0.17	0.20	-			
					LE Tilt	-	20525	836.5	24.00	23.40	114.82%	0.06	0.07	-			
				25	RE Cheek	-	20600	844	24.00	23.28	118.03%	0.22	0.26	94			
				49	RE Cheek	-	20450	829	24.00	23.37	115.61%	0.18	0.21	-			
				25 RB	12	RE Cheek	-	20525	836.5	23.00	22.32	116.95%	0.14	0.16	-		
						RE Tilt	-	20525	836.5	23.00	22.32	116.95%	0.05	0.06	-		
			LE Cheek			-	20525	836.5	23.00	22.32	116.95%	0.12	0.14	-			
			LE Tilt			-	20525	836.5	23.00	22.32	116.95%	0.04	0.05	-			
			50 RB		RE Cheek	-	20450	829	23.00	22.25	118.85%	0.14	0.17	-			
					RE Tilt	-	20450	829	23.00	22.25	118.85%	0.04	0.05	-			
					LE Cheek	-	20450	829	23.00	22.25	118.85%	0.11	0.13	-			
					LE Tilt	-	20450	829	23.00	22.25	118.85%	0.04	0.05	-			
			Body-worn	10MHz	QPSK	1RB	0	Front side	10	20525	836.5	24.00	23.40	114.82%	0.16	0.18	-
								Back side	10	20525	836.5	24.00	23.40	114.82%	0.15	0.17	-
Hotspot	10MHz	QPSK	1 RB	0	Front side	10	20525	836.5	24.00	23.40	114.82%	0.16	0.18	-			
					Back side	10	20525	836.5	24.00	23.40	114.82%	0.15	0.17	-			
					Top side	10	20525	836.5	24.00	23.40	114.82%	0.01	0.01	-			
					Bottom side	10	20525	836.5	24.00	23.40	114.82%	0.19	0.22	-			
					Right side	10	20525	836.5	24.00	23.40	114.82%	0.34	0.39	95			
					Left side	10	20525	836.5	24.00	23.40	114.82%	0.16	0.18	-			
				25	Right side	10	20600	844	24.00	23.28	118.03%	0.25	0.30	-			
				49	Right side	10	20450	829	24.00	23.37	115.61%	0.30	0.35	-			
				25 RB	25	Front side	10	20525	836.5	23.00	22.32	116.95%	0.11	0.13	-		
						Back side	10	20525	836.5	23.00	22.32	116.95%	0.11	0.13	-		
						Top side	10	20525	836.5	23.00	22.32	116.95%	0.01	0.01	-		
						Bottom side	10	20525	836.5	23.00	22.32	116.95%	0.15	0.18	-		
			50 RB		Right side	10	20525	836.5	23.00	22.32	116.95%	0.23	0.27	-			
					Left side	10	20525	836.5	23.00	22.32	116.95%	0.10	0.12	-			
					Front side	10	20450	829	23.00	22.25	118.85%	0.10	0.12	-			
					Back side	10	20450	829	23.00	22.25	118.85%	0.10	0.12	-			
			50 RB		Top side	10	20450	829	23.00	22.25	118.85%	0.01	0.01	-			
					Bottom side	10	20450	829	23.00	22.25	118.85%	0.16	0.19	-			
					Right side	10	20450	829	23.00	22.25	118.85%	0.26	0.31	-			
					Left side	10	20450	829	23.00	22.25	118.85%	0.11	0.13	-			

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LTE FDD Band 12

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
Head	10MHz	QPSK	1 RB	0	RE Cheek	-	23130	711	24.00	23.53	111.43%	0.13	0.14	-
					RE Cheek	-	23060	704	24.00	23.44	113.76%	0.14	0.16	-
					RE Cheek	-	23095	707.5	24.00	23.89	102.57%	0.15	0.15	96
				49	RE Tilt	-	23095	707.5	24.00	23.89	102.57%	0.05	0.05	-
					LE Cheek	-	23095	707.5	24.00	23.89	102.57%	0.13	0.13	-
					LE Tilt	-	23095	707.5	24.00	23.89	102.57%	0.08	0.08	-
			25 RB	25	RE Cheek	-	23130	711	23.00	22.44	113.76%	0.13	0.15	-
					RE Tilt	-	23130	711	23.00	22.44	113.76%	0.04	0.05	-
					LE Cheek	-	23130	711	23.00	22.44	113.76%	0.11	0.13	-
			50 RB		LE Tilt	-	23130	711	23.00	22.44	113.76%	0.05	0.06	-
					RE Cheek	-	23095	707.5	23.00	22.41	114.55%	0.12	0.14	-
					RE Tilt	-	23095	707.5	23.00	22.41	114.55%	0.03	0.03	-
					LE Cheek	-	23095	707.5	23.00	22.41	114.55%	0.10	0.11	-
					LE Tilt	-	23095	707.5	23.00	22.41	114.55%	0.04	0.05	-
Body-worn	10MHz	QPSK	1RB	49	Front side	10	23095	707.5	24.00	23.89	102.57%	0.17	0.17	-
					Back side	10	23095	707.5	24.00	23.89	102.57%	0.15	0.15	-
Hotspot	10MHz	QPSK	1 RB	0	Right side	10	23130	711	24.00	23.53	111.43%	0.20	0.22	97
					Front side	10	23095	707.5	24.00	23.89	102.57%	0.17	0.17	-
					Back side	10	23095	707.5	24.00	23.89	102.57%	0.15	0.15	-
					Top side	10	23095	707.5	24.00	23.89	102.57%	0.01	0.01	-
					Bottom side	10	23095	707.5	24.00	23.89	102.57%	0.07	0.07	-
					Right side	10	23060	704	24.00	23.44	113.76%	0.20	0.23	-
					Right side	10	23095	707.5	24.00	23.89	102.57%	0.19	0.19	-
				49	Left side	10	23095	707.5	24.00	23.89	102.57%	0.14	0.14	-
					Front side	10	23130	711	23.00	22.44	113.76%	0.13	0.15	-
					Back side	10	23130	711	23.00	22.44	113.76%	0.12	0.14	-
					Top side	10	23130	711	23.00	22.44	113.76%	0.00	0.00	-
					Bottom side	10	23130	711	23.00	22.44	113.76%	0.06	0.07	-
					Right side	10	23130	711	23.00	22.44	113.76%	0.16	0.18	-
					Left side	10	23130	711	23.00	22.44	113.76%	0.11	0.13	-
			25 RB	25	Front side	10	23095	707.5	23.00	22.41	114.55%	0.13	0.15	-
					Back side	10	23095	707.5	23.00	22.41	114.55%	0.12	0.14	-
					Top side	10	23095	707.5	23.00	22.41	114.55%	0.00	0.00	-
					Bottom side	10	23095	707.5	23.00	22.41	114.55%	0.05	0.06	-
					Right side	10	23095	707.5	23.00	22.41	114.55%	0.16	0.18	-
					Left side	10	23095	707.5	23.00	22.41	114.55%	0.11	0.13	-
					Left side	10	23095	707.5	23.00	22.41	114.55%	0.11	0.13	-
				50 RB	Front side	10	23095	707.5	23.00	22.41	114.55%	0.13	0.15	-
					Back side	10	23095	707.5	23.00	22.41	114.55%	0.12	0.14	-
					Top side	10	23095	707.5	23.00	22.41	114.55%	0.00	0.00	-
					Bottom side	10	23095	707.5	23.00	22.41	114.55%	0.05	0.06	-
					Right side	10	23095	707.5	23.00	22.41	114.55%	0.16	0.18	-
					Left side	10	23095	707.5	23.00	22.41	114.55%	0.11	0.13	-
					Left side	10	23095	707.5	23.00	22.41	114.55%	0.11	0.13	-

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LTE FDD Band 17

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page			
												Measured	Reported				
Head	10MHz	QPSK	1 RB	0	RE Cheek	-	23800	711	24.00	23.34	116.41%	0.14	0.16	-			
					RE Cheek	-	23780	709	24.00	23.32	116.95%	0.14	0.16	-			
				49	RE Cheek	-	23790	710	24.00	23.49	112.46%	0.15	0.17	98			
					RE Tilt	-	23790	710	24.00	23.49	112.46%	0.09	0.10	-			
					LE Cheek	-	23790	710	24.00	23.49	112.46%	0.13	0.15	-			
					LE Tilt	-	23790	710	24.00	23.49	112.46%	0.08	0.09	-			
			25 RB	25	RE Cheek	-	23790	710	23.00	22.46	113.24%	0.12	0.14	-			
					RE Tilt	-	23790	710	23.00	22.46	113.24%	0.06	0.07	-			
			50 RB	25	LE Cheek	-	23790	710	23.00	22.46	113.24%	0.11	0.12	-			
					LE Tilt	-	23790	710	23.00	22.46	113.24%	0.05	0.06	-			
					RE Cheek	-	23780	709	23.00	22.32	116.95%	0.12	0.14	-			
					RE Tilt	-	23780	709	23.00	22.32	116.95%	0.05	0.06	-			
					LE Cheek	-	23780	709	23.00	22.32	116.95%	0.10	0.12	-			
					LE Tilt	-	23780	709	23.00	22.32	116.95%	0.05	0.06	-			
			Body-worn	10MHz	QPSK	1RB	49	Front side	10	23790	710	24.00	23.49	112.46%	0.17	0.19	-
								Back side	10	23790	710	24.00	23.49	112.46%	0.15	0.17	-
Hotspot	10MHz	QPSK	1 RB	0	Right side	10	23800	711	24.00	23.34	116.41%	0.23	0.27	-			
					Right side	10	23780	709	24.00	23.32	116.95%	0.24	0.28	99			
				49	Front side	10	23790	710	24.00	23.49	112.46%	0.17	0.19	-			
					Back side	10	23790	710	24.00	23.49	112.46%	0.15	0.17	-			
					Top side	10	23790	710	24.00	23.49	112.46%	0.01	0.01	-			
					Bottom side	10	23790	710	24.00	23.49	112.46%	0.06	0.07	-			
					Right side	10	23790	710	24.00	23.49	112.46%	0.19	0.21	-			
					Left side	10	23790	710	24.00	23.49	112.46%	0.14	0.16	-			
				25 RB	25	Front side	10	23790	710	23.00	22.46	113.24%	0.13	0.15	-		
						Back side	10	23790	710	23.00	22.46	113.24%	0.12	0.14	-		
						Top side	10	23790	710	23.00	22.46	113.24%	0.00	0.00	-		
						Bottom side	10	23790	710	23.00	22.46	113.24%	0.05	0.06	-		
			Right side			10	23790	710	23.00	22.46	113.24%	0.20	0.23	-			
			Left side			10	23790	710	23.00	22.46	113.24%	0.11	0.12	-			
			50 RB	25	Front side	10	23780	709	23.00	22.32	116.95%	0.13	0.15	-			
					Back side	10	23780	709	23.00	22.32	116.95%	0.12	0.14	-			
					Top side	10	23780	709	23.00	22.32	116.95%	0.00	0.00	-			
					Bottom side	10	23780	709	23.00	22.32	116.95%	0.05	0.06	-			
					Right side	10	23780	709	23.00	22.32	116.95%	0.19	0.22	-			
					Left side	10	23780	709	23.00	22.32	116.95%	0.11	0.13	-			

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LTE TDD Band 38

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
Head	20MHz	QPSK	1 RB	0	RE Cheek	-	38000	2595	24.00	23.28	118.03%	0.08	0.09	-
					RE Cheek	-	37850	2580	24.00	23.34	116.41%	0.09	0.10	100
					RE Cheek	-	38150	2610	24.00	23.20	120.23%	0.08	0.10	-
				99	RE Tilt	-	37850	2580	24.00	23.34	116.41%	0.04	0.05	-
					LE Cheek	-	37850	2580	24.00	23.34	116.41%	0.04	0.05	-
					LE Tilt	-	37850	2580	24.00	23.34	116.41%	0.02	0.02	-
			50 RB	0	RE Cheek	-	37850	2580	23.00	22.32	116.95%	0.06	0.07	-
					RE Tilt	-	37850	2580	23.00	22.32	116.95%	0.02	0.02	-
					LE Cheek	-	37850	2580	23.00	22.32	116.95%	0.04	0.05	-
				100 RB	LE Tilt	-	37850	2580	23.00	22.32	116.95%	0.01	0.01	-
					RE Cheek	-	37850	2580	23.00	22.25	118.85%	0.06	0.07	-
					RE Tilt	-	37850	2580	23.00	22.25	118.85%	0.02	0.02	-
			100 RB	LE Cheek	-	37850	2580	23.00	22.25	118.85%	0.04	0.05	-	
				LE Tilt	-	37850	2580	23.00	22.25	118.85%	0.01	0.01	-	
				Front side	10	37850	2580	24.00	23.34	116.41%	0.25	0.29	-	
				Back side	10	37850	2580	24.00	23.34	116.41%	0.17	0.20	-	
Hotspot	20MHz	QPSK	1 RB	0	Bottom side	10	38000	2595	24.00	23.28	118.03%	0.29	0.34	-
					Front side	10	37850	2580	24.00	23.34	116.41%	0.25	0.29	-
					Back side	10	37850	2580	24.00	23.34	116.41%	0.17	0.20	-
					Top side	10	37850	2580	24.00	23.34	116.41%	0.01	0.01	-
					Bottom side	10	37850	2580	24.00	23.34	116.41%	0.39	0.45	101
					Bottom side	10	38150	2610	24.00	23.20	120.23%	0.38	0.46	-
				99	Right side	10	37850	2580	24.00	23.34	116.41%	0.19	0.22	-
					Left side	10	37850	2580	24.00	23.34	116.41%	0.02	0.02	-
					Front side	10	37850	2580	23.00	22.32	116.95%	0.16	0.19	-
					Back side	10	37850	2580	23.00	22.32	116.95%	0.11	0.13	-
					Top side	10	37850	2580	23.00	22.32	116.95%	0.00	0.00	-
					Bottom side	10	37850	2580	23.00	22.32	116.95%	0.23	0.27	-
			50 RB	0	Right side	10	37850	2580	23.00	22.32	116.95%	0.13	0.15	-
					Left side	10	37850	2580	23.00	22.32	116.95%	0.01	0.01	-
					Front side	10	37850	2580	23.00	22.32	116.95%	0.17	0.20	-
					Back side	10	37850	2580	23.00	22.25	118.85%	0.10	0.12	-
					Top side	10	37850	2580	23.00	22.25	118.85%	0.00	0.00	-
					Bottom side	10	37850	2580	23.00	22.25	118.85%	0.24	0.29	-
				100 RB	Right side	10	37850	2580	23.00	22.25	118.85%	0.13	0.15	-
					Left side	10	37850	2580	23.00	22.25	118.85%	0.01	0.01	-
					Front side	10	37850	2580	23.00	22.25	118.85%	0.17	0.20	-
					Back side	10	37850	2580	23.00	22.25	118.85%	0.10	0.12	-
					Top side	10	37850	2580	23.00	22.25	118.85%	0.00	0.00	-
					Bottom side	10	37850	2580	23.00	22.25	118.85%	0.24	0.29	-
100 RB	Right side	10	37850	2580	23.00	22.25	118.85%	0.13	0.15	-				
	Left side	10	37850	2580	23.00	22.25	118.85%	0.01	0.01	-				
	Front side	10	37850	2580	23.00	22.25	118.85%	0.17	0.20	-				
	Back side	10	37850	2580	23.00	22.25	118.85%	0.10	0.12	-				

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LTE TDD Band 41

Ant 1

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page			
												Measured	Reported				
Head	20MHz	QPSK	1 RB	0	RE Cheek	-	40185	2549.5	24.50	23.80	117.49%	0.05	0.06	-			
					RE Cheek	-	40620	2593	24.50	23.79	117.76%	0.09	0.11	-			
					RE Tilt	-	40185	2549.5	24.50	23.80	117.49%	0.04	0.05	-			
					LE Cheek	-	40185	2549.5	24.50	23.80	117.49%	0.04	0.05	-			
					LE Tilt	-	40185	2549.5	24.50	23.80	117.49%	0.03	0.04	-			
					RE Cheek	-	39750	2506	24.50	22.22	169.04%	0.03	0.05	-			
			50 RB	0	RE Cheek	-	41055	2636.5	24.50	23.27	132.74%	0.12	0.16	102			
					RE Cheek	-	41490	2680	24.50	22.23	168.66%	0.11	0.19	-			
					RE Cheek	-	40185	2549.5	23.50	23.04	111.17%	0.05	0.06	-			
					RE Tilt	-	40185	2549.5	23.50	23.04	111.17%	0.02	0.02	-			
					LE Cheek	-	40185	2549.5	23.50	23.04	111.17%	0.03	0.03	-			
					LE Tilt	-	40185	2549.5	23.50	23.04	111.17%	0.02	0.02	-			
			100 RB	0	RE Cheek	-	40620	2593	23.50	23.00	112.20%	0.09	0.10	-			
					RE Tilt	-	40620	2593	23.50	23.00	112.20%	0.04	0.04	-			
					LE Cheek	-	40620	2593	23.50	23.00	112.20%	0.04	0.04	-			
					LE Tilt	-	40620	2593	23.50	23.00	112.20%	0.03	0.03	-			
			Body-worn	10MHz	QPSK	1RB	0	Front side	10	40185	2549.5	24.50	23.80	117.49%	0.21	0.25	-
								Back side	10	40185	2549.5	24.50	23.80	117.49%	0.13	0.15	-
Hotspot	20MHz	QPSK	1 RB	0	Front side	10	40185	2549.5	24.50	23.80	117.49%	0.21	0.25	-			
					Back side	10	40185	2549.5	24.50	23.80	117.49%	0.13	0.15	-			
					Top side	10	40185	2549.5	24.50	23.80	117.49%	0.01	0.01	-			
					Bottom side	10	40185	2549.5	24.50	23.80	117.49%	0.32	0.38	-			
					Bottom side	10	40620	2593	24.50	23.79	117.76%	0.34	0.40	-			
					Right side	10	40185	2549.5	24.50	23.80	117.49%	0.15	0.18	-			
				99	Left side	10	40185	2549.5	24.50	23.80	117.49%	0.01	0.01	-			
					Bottom side	10	41055	2636.5	24.50	23.27	132.74%	0.43	0.57	103			
					Bottom side	10	41490	2680	24.50	22.23	168.66%	0.35	0.59	-			
					Front side	10	40185	2549.5	23.50	23.04	111.17%	0.14	0.16	-			
					Back side	10	40185	2549.5	23.50	23.04	111.17%	0.10	0.11	-			
					Top side	10	40185	2549.5	23.50	23.04	111.17%	0.01	0.01	-			
			50 RB	0	Bottom side	10	40185	2549.5	23.50	23.04	111.17%	0.22	0.24	-			
					Bottom side	10	40620	2593	23.50	23.03	111.43%	0.33	0.37	-			
					Right side	10	40185	2549.5	23.50	23.04	111.17%	0.11	0.12	-			
					Left side	10	40185	2549.5	23.50	23.04	111.17%	0.00	0.00	-			
					Front side	10	40620	2593	23.50	23.00	112.20%	0.14	0.16	-			
					Back side	10	40620	2593	23.50	23.00	112.20%	0.09	0.10	-			
					100 RB	Top side	10	40620	2593	23.50	23.00	112.20%	0.00	0.00	-		
						Bottom side	10	40620	2593	23.50	23.00	112.20%	0.35	0.39	-		
						Right side	10	40620	2593	23.50	23.00	112.20%	0.10	0.11	-		
						Left side	10	40620	2593	23.50	23.00	112.20%	0.00	0.00	-		

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LTE TDD Band 41

Ant 3

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
Head	20MHz	QPSK	1 RB	0	RE Cheek	-	39750	2506	14.00	13.25	118.85%	0.13	0.15	-
					RE Tilt	-	39750	2506	14.00	13.25	118.85%	0.20	0.24	104
					LE Cheek	-	39750	2506	14.00	13.25	118.85%	0.12	0.14	-
					LE Tilt	-	39750	2506	14.00	13.25	118.85%	0.19	0.23	-
					RE Cheek	-	41490	2680	14.00	13.25	118.85%	0.08	0.10	-
					RE Tilt	-	41055	2636.5	14.00	13.08	123.59%	0.11	0.14	-
				RE Tilt	-	41490	2680	14.00	13.25	118.85%	0.09	0.11	-	
				LE Cheek	-	41490	2680	14.00	13.25	118.85%	0.07	0.08	-	
				LE Tilt	-	41490	2680	14.00	13.25	118.85%	0.09	0.11	-	
				RE Tilt	-	39750	2506	14.00	13.25	118.85%	0.10	0.12	-	
				RE Tilt	-	40620	2593	14.00	13.22	119.67%	0.12	0.14	-	
				RE Tilt	-	40185	2549.5	14.00	13.23	119.40%	0.15	0.18	-	
			50 RB	0	RE Cheek	-	41490	2680	14.00	13.29	117.76%	0.06	0.07	-
					RE Tilt	-	41490	2680	14.00	13.29	117.76%	0.07	0.08	-
					LE Cheek	-	41490	2680	14.00	13.29	117.76%	0.05	0.06	-
				LE Tilt	-	41490	2680	14.00	13.29	117.76%	0.07	0.08	-	
				100 RB	RE Cheek	-	40620	2593	14.00	13.33	116.68%	0.12	0.14	-
					RE Tilt	-	40620	2593	14.00	13.33	116.68%	0.16	0.19	-
			LE Cheek		-	40620	2593	14.00	13.33	116.68%	0.10	0.12	-	
			50 RB	0	LE Tilt	-	40620	2593	14.00	13.33	116.68%	0.13	0.15	-
					Front side	10	39750	2506	14.00	13.25	118.85%	0.05	0.06	-
					Back side	10	39750	2506	14.00	13.25	118.85%	0.02	0.02	-
				100 RB	Front side	10	39750	2506	14.00	13.25	118.85%	0.05	0.06	-
					Back side	10	39750	2506	14.00	13.25	118.85%	0.02	0.02	-
Top side	10	39750			2506	14.00	13.25	118.85%	0.10	0.12	105			
Hotspot	20MHz	QPSK	1 RB	0	Bottom side	10	39750	2506	14.00	13.25	118.85%	0.01	0.01	-
					Right side	10	39750	2506	14.00	13.25	118.85%	0.01	0.01	-
					Left side	10	39750	2506	14.00	13.25	118.85%	0.01	0.01	-
					Front side	10	41490	2680	14.00	13.25	118.85%	0.03	0.04	-
					Back side	10	41490	2680	14.00	13.25	118.85%	0.01	0.01	-
					Top side	10	41055	2636.5	14.00	13.08	123.59%	0.08	0.10	-
				Top side	10	41490	2680	14.00	13.25	118.85%	0.07	0.08	-	
				Bottom side	10	41490	2680	14.00	13.25	118.85%	0.00	0.00	-	
				Right side	10	41490	2680	14.00	13.25	118.85%	0.01	0.01	-	
				Left side	10	41490	2680	14.00	13.25	118.85%	0.00	0.00	-	
				Top side	10	39750	2506	14.00	13.25	118.85%	0.07	0.08	-	
				Top side	10	40620	2593	14.00	13.22	119.67%	0.07	0.08	-	
			Top side	10	40185	2549.5	14.00	13.23	119.40%	0.09	0.11	-		
			50 RB	0	Front side	10	41490	2680	14.00	13.29	117.76%	0.02	0.02	-
					Back side	10	41490	2680	14.00	13.29	117.76%	0.01	0.01	-
					Top side	10	41490	2680	14.00	13.29	117.76%	0.03	0.04	-
				Bottom side	10	41490	2680	14.00	13.29	117.76%	0.00	0.00	-	
				Right side	10	41490	2680	14.00	13.29	117.76%	0.01	0.01	-	
				Left side	10	41490	2680	14.00	13.29	117.76%	0.00	0.00	-	
			100 RB	0	Top side	10	40620	2593	14.00	13.33	116.68%	0.03	0.04	-
					Back side	10	40620	2593	14.00	13.33	116.68%	0.02	0.02	-
					Top side	10	40620	2593	14.00	13.33	116.68%	0.07	0.08	-
				Bottom side	10	40620	2593	14.00	13.33	116.68%	0.00	0.00	-	
				Right side	10	40620	2593	14.00	13.33	116.68%	0.01	0.01	-	
Left side	10	40620		2593	14.00	13.33	116.68%	0.00	0.00	-				

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WLAN 802.11b

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	Head	RE Cheek	-	10	2457	15	14.88	1.010	102.75%	0.48	0.50	106
		RE Tilt	-	10	2457	15	14.88	1.010	102.75%	0.43	0.45	-
		LE Cheek	-	10	2457	15	14.88	1.010	102.75%	0.18	0.19	-
		LE Tilt	-	10	2457	15	14.88	1.010	102.75%	0.23	0.24	-
	Body-worn	Front side	10	10	2457	15	14.88	1.010	102.75%	0.05	0.05	-
		Back side	10	10	2457	15	14.88	1.010	102.75%	0.07	0.07	-
	Hotspot	Front side	10	10	2457	15	14.88	1.010	102.75%	0.05	0.05	-
		Back side	10	10	2457	15	14.88	1.010	102.75%	0.07	0.07	-
		Top side	10	10	2457	15	14.88	1.010	102.75%	0.06	0.06	-
		Bottom side	10	10	2457	15	14.88	1.010	102.75%	0.00	0.00	-
		Right side	10	10	2457	15	14.88	1.010	102.75%	0.00	0.00	-
		Left side	10	10	2457	15	14.88	1.010	102.75%	0.08	0.08	107

Bluetooth (GFSK)

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	Head	RE Cheek	-	39	2441	12.6	10.61	1.302	158.12%	0.10	0.21	108
		RE Tilt	-	39	2441	12.6	10.61	1.302	158.12%	0.08	0.16	-
		LE Cheek	-	39	2441	12.6	10.61	1.302	158.12%	0.04	0.08	-
		LE Tilt	-	39	2441	12.6	10.61	1.302	158.12%	0.05	0.10	-
	Body-worn	Front side	10	39	2441	12.6	10.61	1.302	158.12%	0.01	0.02	-
		Back side	10	39	2441	12.6	10.61	1.302	158.12%	0.02	0.04	109

WLAN 802.11ac(80M) 5.2G

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	Head	RE Cheek	-	42	5210	12	11.85	1.079	103.63%	0.23	0.26	-
		RE Tilt	-	42	5210	12	11.85	1.079	103.63%	0.36	0.40	110
		LE Cheek	-	42	5210	12	11.85	1.079	103.63%	0.13	0.15	-
		LE Tilt	-	42	5210	12	11.85	1.079	103.63%	0.18	0.20	-
	Body-worn	Front side	10	42	5210	12	11.85	1.079	103.63%	0.10	0.11	111
		Back side	10	42	5210	12	11.85	1.079	103.63%	0.05	0.06	-

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WLAN 802.11ac(80M) 5.3G

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	Head	RE Cheek	-	58	5290	12	11.64	1.079	108.76%	0.19	0.22	-
		RE Tilt	-	58	5290	12	11.64	1.079	108.76%	0.29	0.34	112
		LE Cheek	-	58	5290	12	11.64	1.079	108.76%	0.11	0.13	-
		LE Tilt	-	58	5290	12	11.64	1.079	108.76%	0.16	0.19	-
	Body-worn	Front side	10	58	5290	12	11.64	1.079	108.76%	0.03	0.04	113
		Back side	10	58	5290	12	11.64	1.079	108.76%	0.02	0.02	-

WLAN 802.11ac(80M) 5.6G

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	Head	RE Cheek	-	138	5690	12	11.91	1.079	102.21%	0.26	0.29	-
		RE Tilt	-	138	5690	12	11.91	1.079	102.21%	0.31	0.34	114
		LE Cheek	-	138	5690	12	11.91	1.079	102.21%	0.25	0.28	-
		LE Tilt	-	138	5690	12	11.91	1.079	102.21%	0.28	0.31	-
	Body-worn	Front side	10	138	5690	12	11.91	1.079	102.21%	0.03	0.03	115
		Back side	10	138	5690	12	11.91	1.079	102.21%	0.01	0.01	-

WLAN 802.11ac(80M) 5.8G

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	Head	RE Cheek	-	155	5775	12	11.56	1.079	110.79%	0.27	0.32	-
		RE Tilt	-	155	5775	12	11.56	1.079	110.79%	0.31	0.37	116
		LE Cheek	-	155	5775	12	11.56	1.079	110.79%	0.28	0.33	-
		LE Tilt	-	155	5775	12	11.56	1.079	110.79%	0.30	0.36	-
	Body-worn	Front side	10	155	5775	12	11.56	1.079	110.79%	0.05	0.06	-
		Back side	10	155	5775	12	11.56	1.079	110.79%	0.02	0.02	-
	Hotspot	Front side	10	155	5775	12	11.56	1.079	110.79%	0.05	0.06	-
		Back side	10	155	5775	12	11.56	1.079	110.79%	0.02	0.02	-
		Top side	10	155	5775	12	11.56	1.079	110.79%	0.07	0.08	117
		Bottom side	10	155	5775	12	11.56	1.079	110.79%	0.00	0.00	-
		Right side	10	155	5775	12	11.56	1.079	110.79%	0.00	0.00	-
		Left side	10	155	5775	12	11.56	1.079	110.79%	0.06	0.07	-

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Note:

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

Reported SAR = measured SAR * (scaling)

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

2.3 Reporting statements of conformity

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

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Head	Body-Worn	Hotspot
GSM + WLAN 2.4/5.8GHz	Yes	Yes	No
GPRS + WLAN 2.4/5.8GHz	No	No	Yes
UMTS + WLAN 2.4/5.8GHz	Yes	Yes	Yes
LTE + WLAN 2.4/5.8GHz	Yes	Yes	Yes
GSM + WLAN 5.2/5.3/5.6GHz	Yes	Yes	No
UMTS + WLAN 5.2/5.3/5.6GHz	Yes	Yes	No
LTE + WLAN 5.2/5.3/5.6GHz	Yes	Yes	No
GSM + BT	Yes	Yes	No
UMTS + BT	Yes	Yes	No
LTE + BT	Yes	Yes	No
GSM + WLAN 5GHz + BT	Yes	Yes	No
UMTS + WLAN 5GHz + BT	Yes	Yes	No
LTE + WLAN 5GHz + BT	Yes	Yes	No

Note:

1. The device does not support DTM function. Body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
2. Based on KDB447498D01 note 36, when SAR test exclusion is allowed by other published RF exposure KDB procedures, such as the 2.5 cm hotspot mode SAR test exclusion for an edge or surface, then estimated SAR is not required to determine simultaneous SAR test exclusion.
- 3: Based on KDB 648474 D04v01r03 note 6, simultaneous transmission SAR for 10-g extremity SAR requires consideration only when standalone 10-g SAR is required.

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3.1 Estimated SAR calculation

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

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

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

3.2 SPLSR evaluation and analysis

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

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

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

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

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

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Simultaneous Transmission Combination

reported SAR WWAN and WLAN 2.4GHz, Σ SAR evaluation					
Frequency band	Position		reported SAR / W/kg		Σ SAR
			WWAN	WLAN	<1.6W/kg
GSM 850	Head	Right cheek	0.21	0.50	0.71
		Right tilt	0.10	0.45	0.55
		Left cheek	0.17	0.19	0.36
		Left tilt	0.08	0.24	0.32
GPRS 850 (1Dn4UP)	Hotspot	Front side	0.12	0.05	0.17
		Back side	0.11	0.07	0.18
		Top side	0.00	0.06	0.06
		Bottom side	0.14	0.00	0.14
		Right side	0.50	0.00	0.50
		Left side	0.11	0.08	0.19
GSM 1900	Head	Right cheek	0.08	0.50	0.58
		Right tilt	0.02	0.45	0.47
		Left cheek	0.03	0.19	0.22
		Left tilt	0.03	0.24	0.27
GPRS 1900 (1Dn4UP)	Hotspot	Front side	0.26	0.05	0.31
		Back side	0.16	0.07	0.23
		Top side	0.03	0.06	0.09
		Bottom side	0.63	0.00	0.63
		Right side	0.04	0.00	0.04
		Left side	0.10	0.08	0.18
WCDMA Band V	Head	Right cheek	0.28	0.50	0.78
		Right tilt	0.10	0.45	0.55
		Left cheek	0.23	0.19	0.42
		Left tilt	0.13	0.24	0.37
	Hotspot	Front side	0.24	0.05	0.29
		Back side	0.21	0.07	0.28
		Top side	0.01	0.06	0.07
		Bottom side	0.23	0.00	0.23
		Right side	0.53	0.00	0.53
		Left side	0.21	0.08	0.29
LTE FDD Band 5	Head	Right cheek	0.26	0.50	0.76
		Right tilt	0.07	0.45	0.52
		Left cheek	0.20	0.19	0.39
		Left tilt	0.07	0.24	0.31
	Hotspot	Front side	0.18	0.05	0.23
		Back side	0.17	0.07	0.24
		Top side	0.01	0.06	0.07
		Bottom side	0.22	0.00	0.22
		Right side	0.39	0.00	0.39
		Left side	0.18	0.08	0.26

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reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation					
Frequency band	Position		reported SAR / W/kg		ΣSAR
			WWAN	WLAN	<1.6W/kg
LTE FDD Band 12	Head	Right cheek	0.16	0.50	0.66
		Right tilt	0.05	0.45	0.50
		Left cheek	0.13	0.19	0.32
		Left tilt	0.08	0.24	0.32
	Hotspot	Front side	0.17	0.05	0.22
		Back side	0.15	0.07	0.22
		Top side	0.01	0.06	0.07
		Bottom side	0.07	0.00	0.07
		Right side	0.23	0.00	0.23
		Left side	0.14	0.08	0.22
LTE FDD Band 17	Head	Right cheek	0.17	0.50	0.67
		Right tilt	0.10	0.45	0.55
		Left cheek	0.15	0.19	0.34
		Left tilt	0.09	0.24	0.33
	Hotspot	Front side	0.19	0.05	0.24
		Back side	0.17	0.07	0.24
		Top side	0.01	0.06	0.07
		Bottom side	0.07	0.00	0.07
		Right side	0.28	0.00	0.28
		Left side	0.16	0.08	0.24
LTE TDD Band 38	Head	Right cheek	0.10	0.50	0.60
		Right tilt	0.05	0.45	0.50
		Left cheek	0.05	0.19	0.24
		Left tilt	0.02	0.24	0.26
	Hotspot	Front side	0.29	0.05	0.34
		Back side	0.20	0.07	0.27
		Top side	0.01	0.06	0.07
		Bottom side	0.46	0.00	0.46
		Right side	0.22	0.00	0.22
		Left side	0.02	0.08	0.10

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reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation					
Frequency band	Position		reported SAR / W/kg		ΣSAR
			WWAN	WLAN	<1.6W/kg
LTE TDD Band 41 (Ant1)	Head	Right cheek	0.19	0.50	0.69
		Right tilt	0.05	0.45	0.50
		Left cheek	0.05	0.19	0.24
		Left tilt	0.04	0.24	0.28
	Hotspot	Front side	0.25	0.05	0.30
		Back side	0.15	0.07	0.22
		Top side	0.01	0.06	0.07
		Bottom side	0.59	0.00	0.59
		Right side	0.18	0.00	0.18
		Left side	0.01	0.08	0.09
LTE TDD Band 41 (Ant3)	Head	Right cheek	0.15	0.50	0.65
		Right tilt	0.24	0.45	0.69
		Left cheek	0.14	0.19	0.33
		Left tilt	0.23	0.24	0.47
	Hotspot	Front side	0.06	0.05	0.11
		Back side	0.02	0.07	0.09
		Top side	0.12	0.06	0.18
		Bottom side	0.01	0.00	0.01
		Right side	0.01	0.00	0.01
		Left side	0.01	0.08	0.09

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reported SAR WWAN and WLAN 2.4GHz, ΣSAR evaluation					
Frequency band	Position		reported SAR / W/kg		ΣSAR
			WWAN	WLAN	<1.6W/kg
GSM850	body-worn	Front side	0.16	0.05	0.21
		Back side	0.13	0.07	0.20
GSM 1900	body-worn	Front side	0.25	0.05	0.30
		Back side	0.23	0.07	0.30
WCDMA Band V	body-worn	Front side	0.24	0.05	0.29
		Back side	0.21	0.07	0.28
LTE FDD Band 5	body-worn	Front side	0.18	0.05	0.23
		Back side	0.17	0.07	0.24
LTE FDD Band 12	body-worn	Front side	0.17	0.05	0.22
		Back side	0.15	0.07	0.22
LTE FDD Band 17	body-worn	Front side	0.19	0.05	0.24
		Back side	0.17	0.07	0.24
LTE TDD Band 38	body-worn	Front side	0.29	0.05	0.34
		Back side	0.20	0.07	0.27
LTE TDD Band 41 (Ant1)	body-worn	Front side	0.25	0.05	0.30
		Back side	0.15	0.07	0.22
LTE TDD Band 41 (Ant3)	body-worn	Front side	0.06	0.05	0.11
		Back side	0.02	0.07	0.09

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reported SAR WWAN and WLAN 5GHz, Σ SAR evaluation					
Frequency band	Position		reported SAR / W/kg		Σ SAR
			WWAN	WLAN	<1.6W/kg
GSM 850	Head	Right cheek	0.21	0.32	0.53
		Right tilt	0.10	0.40	0.50
		Left cheek	0.17	0.33	0.50
		Left tilt	0.08	0.36	0.44
GPRS 850 (1Dn4UP)	Hotspot	Front side	0.12	0.06	0.18
		Back side	0.11	0.02	0.13
		Top side	0.00	0.08	0.08
		Bottom side	0.14	0.00	0.14
		Right side	0.50	0.00	0.50
		Left side	0.11	0.07	0.18
GSM 1900	Head	Right cheek	0.08	0.32	0.40
		Right tilt	0.02	0.40	0.42
		Left cheek	0.03	0.33	0.36
		Left tilt	0.03	0.36	0.39
GPRS 1900 (1Dn4UP)	Hotspot	Front side	0.26	0.06	0.32
		Back side	0.16	0.02	0.18
		Top side	0.03	0.08	0.11
		Bottom side	0.63	0.00	0.63
		Right side	0.04	0.00	0.04
		Left side	0.10	0.07	0.17
WCDMA Band V	Head	Right cheek	0.28	0.32	0.60
		Right tilt	0.10	0.40	0.50
		Left cheek	0.23	0.33	0.56
		Left tilt	0.13	0.36	0.49
	Hotspot	Front side	0.24	0.06	0.30
		Back side	0.21	0.02	0.23
		Top side	0.01	0.08	0.09
		Bottom side	0.23	0.00	0.23
LTE FDD Band 5	Head	Right cheek	0.26	0.32	0.58
		Right tilt	0.07	0.40	0.47
		Left cheek	0.20	0.33	0.53
		Left tilt	0.07	0.36	0.43
	Hotspot	Front side	0.18	0.06	0.24
		Back side	0.17	0.02	0.19
		Top side	0.01	0.08	0.09
		Bottom side	0.22	0.00	0.22
Right side	0.39	0.00	0.39		
Left side	0.18	0.07	0.25		

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reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation					
Frequency band	Position		reported SAR / W/kg		ΣSAR
			WWAN	WLAN	<1.6W/kg
LTE FDD Band 12	Head	Right cheek	0.16	0.32	0.48
		Right tilt	0.05	0.40	0.45
		Left cheek	0.13	0.33	0.46
		Left tilt	0.08	0.36	0.44
	Hotspot	Front side	0.17	0.06	0.23
		Back side	0.15	0.02	0.17
		Top side	0.01	0.08	0.09
		Bottom side	0.07	0.00	0.07
		Right side	0.23	0.00	0.23
		Left side	0.14	0.07	0.21
LTE FDD Band 17	Head	Right cheek	0.17	0.32	0.49
		Right tilt	0.10	0.40	0.50
		Left cheek	0.15	0.33	0.48
		Left tilt	0.09	0.36	0.45
	Hotspot	Front side	0.19	0.06	0.25
		Back side	0.17	0.02	0.19
		Top side	0.01	0.08	0.09
		Bottom side	0.07	0.00	0.07
		Right side	0.28	0.00	0.28
		Left side	0.16	0.07	0.23
LTE TDD Band 38	Head	Right cheek	0.10	0.32	0.42
		Right tilt	0.05	0.40	0.45
		Left cheek	0.05	0.33	0.38
		Left tilt	0.02	0.36	0.38
	Hotspot	Front side	0.29	0.06	0.35
		Back side	0.20	0.02	0.22
		Top side	0.01	0.08	0.09
		Bottom side	0.46	0.00	0.46
		Right side	0.22	0.00	0.22
		Left side	0.02	0.07	0.09

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reported SAR WWAN and WLAN 5GHz, Σ SAR evaluation					
Frequency band	Position		reported SAR / W/kg		Σ SAR
			WWAN	WLAN	<1.6W/kg
LTE TDD Band 41 (Ant1)	Head	Right cheek	0.19	0.32	0.51
		Right tilt	0.05	0.40	0.45
		Left cheek	0.05	0.33	0.38
		Left tilt	0.04	0.36	0.40
	Hotspot	Front side	0.25	0.06	0.31
		Back side	0.15	0.02	0.17
		Top side	0.01	0.08	0.09
		Bottom side	0.59	0.00	0.59
		Right side	0.18	0.00	0.18
		Left side	0.01	0.07	0.08
LTE TDD Band 41 (Ant3)	Head	Right cheek	0.15	0.32	0.47
		Right tilt	0.24	0.40	0.64
		Left cheek	0.14	0.33	0.47
		Left tilt	0.23	0.36	0.59
	Hotspot	Front side	0.06	0.06	0.12
		Back side	0.02	0.02	0.04
		Top side	0.12	0.08	0.20
		Bottom side	0.01	0.00	0.01
		Right side	0.01	0.00	0.01
		Left side	0.01	0.07	0.08

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reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation					
Frequency band	Position		reported SAR / W/kg		ΣSAR
			WWAN	WLAN	<1.6W/kg
GSM850	body-worn	Front side	0.16	0.11	0.27
		Back side	0.13	0.06	0.19
GSM 1900	body-worn	Front side	0.25	0.11	0.36
		Back side	0.23	0.06	0.29
WCDMA Band V	body-worn	Front side	0.24	0.11	0.35
		Back side	0.21	0.06	0.27
LTE FDD Band 5	body-worn	Front side	0.18	0.11	0.29
		Back side	0.17	0.06	0.23
LTE FDD Band 12	body-worn	Front side	0.17	0.11	0.28
		Back side	0.15	0.06	0.21
LTE FDD Band 17	body-worn	Front side	0.19	0.11	0.30
		Back side	0.17	0.06	0.23
LTE TDD Band 38	body-worn	Front side	0.29	0.11	0.40
		Back side	0.20	0.06	0.26
LTE TDD Band 41 (Ant1)	body-worn	Front side	0.25	0.11	0.36
		Back side	0.15	0.06	0.21
LTE TDD Band 41 (Ant3)	body-worn	Front side	0.06	0.11	0.17
		Back side	0.02	0.06	0.08

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reported SAR WWAN and Bluetooth, Σ SAR evaluation					
Frequency band	Position		reported SAR / W/kg		Σ SAR
			WWAN	BT	<1.6W/kg
GSM 850	Head	Right cheek	0.21	0.21	0.42
		Right tilt	0.10	0.16	0.26
		Left cheek	0.17	0.08	0.25
		Left tilt	0.08	0.10	0.18
GPRS 850 (1Dn4UP)	body-worn	Front side	0.16	0.02	0.18
		Back side	0.13	0.04	0.17
GSM 1900	Head	Right cheek	0.08	0.21	0.29
		Right tilt	0.02	0.16	0.18
		Left cheek	0.03	0.08	0.11
		Left tilt	0.03	0.10	0.13
GPRS 1900 (1Dn4UP)	body-worn	Front side	0.25	0.02	0.27
		Back side	0.23	0.04	0.27
WCDMA Band V	Head	Right cheek	0.28	0.21	0.49
		Right tilt	0.10	0.16	0.26
		Left cheek	0.23	0.08	0.31
		Left tilt	0.13	0.10	0.23
	body-worn	Front side	0.24	0.02	0.26
		Back side	0.21	0.04	0.25
LTE FDD Band 5	Head	Right cheek	0.26	0.21	0.47
		Right tilt	0.07	0.16	0.23
		Left cheek	0.20	0.08	0.28
		Left tilt	0.07	0.10	0.17
	body-worn	Front side	0.18	0.02	0.20
		Back side	0.17	0.04	0.21
LTE FDD Band 12	Head	Right cheek	0.16	0.21	0.37
		Right tilt	0.05	0.16	0.21
		Left cheek	0.13	0.08	0.21
		Left tilt	0.08	0.10	0.18
	body-worn	Front side	0.17	0.02	0.19
		Back side	0.15	0.04	0.19
LTE FDD Band 17	Head	Right cheek	0.17	0.21	0.38
		Right tilt	0.10	0.16	0.26
		Left cheek	0.15	0.08	0.23
		Left tilt	0.09	0.10	0.19
	body-worn	Front side	0.19	0.02	0.21
		Back side	0.17	0.04	0.21

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reported SAR WWAN and Bluetooth, Σ SAR evaluation					
Frequency band	Position		reported SAR / W/kg		Σ SAR
			WWAN	BT	<1.6W/kg
LTE TDD Band 38	Head	Right cheek	0.10	0.21	0.31
		Right tilt	0.05	0.16	0.21
		Left cheek	0.05	0.08	0.13
		Left tilt	0.02	0.10	0.12
	body-worn	Front side	0.29	0.02	0.31
		Back side	0.20	0.04	0.24
LTE TDD Band 41 (Ant1)	Head	Right cheek	0.19	0.21	0.40
		Right tilt	0.05	0.16	0.21
		Left cheek	0.05	0.08	0.13
		Left tilt	0.04	0.10	0.14
	body-worn	Front side	0.25	0.02	0.27
		Back side	0.15	0.04	0.19
LTE TDD Band 41 (Ant3)	Head	Right cheek	0.15	0.21	0.36
		Right tilt	0.24	0.16	0.40
		Left cheek	0.14	0.08	0.22
		Left tilt	0.23	0.10	0.33
	body-worn	Front side	0.06	0.02	0.08
		Back side	0.02	0.04	0.06

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reported SAR WWAN and WLAN 5GHz and Bluetooth, ΣSAR evaluation						
Frequency band	Position		reported SAR / W/kg			ΣSAR
			WWAN	WLAN	BT	<1.6W/kg
GSM 850	Head	Right cheek	0.21	0.32	0.21	0.74
		Right tilt	0.10	0.40	0.16	0.66
		Left cheek	0.17	0.33	0.08	0.58
		Left tilt	0.08	0.36	0.10	0.54
GPRS 850 (1Dn4UP)	body-worn	Front side	0.16	0.11	0.02	0.29
		Back side	0.13	0.06	0.04	0.23
GSM 1900	Head	Right cheek	0.08	0.32	0.21	0.61
		Right tilt	0.02	0.40	0.16	0.58
		Left cheek	0.03	0.33	0.08	0.44
		Left tilt	0.03	0.36	0.10	0.49
GPRS 1900 (1Dn4UP)	body-worn	Front side	0.25	0.11	0.02	0.38
		Back side	0.23	0.06	0.04	0.33
WCDMA Band V	Head	Right cheek	0.28	0.32	0.21	0.81
		Right tilt	0.10	0.40	0.16	0.66
		Left cheek	0.23	0.33	0.08	0.64
		Left tilt	0.13	0.36	0.10	0.59
	body-worn	Front side	0.24	0.11	0.02	0.37
		Back side	0.21	0.06	0.04	0.31
LTE FDD Band 5	Head	Right cheek	0.26	0.32	0.21	0.79
		Right tilt	0.07	0.40	0.16	0.63
		Left cheek	0.20	0.33	0.08	0.61
		Left tilt	0.07	0.36	0.10	0.53
	body-worn	Front side	0.18	0.11	0.02	0.31
		Back side	0.17	0.06	0.04	0.27
LTE FDD Band 12	Head	Right cheek	0.16	0.32	0.21	0.69
		Right tilt	0.05	0.40	0.16	0.61
		Left cheek	0.13	0.33	0.08	0.54
		Left tilt	0.08	0.36	0.10	0.54
	body-worn	Front side	0.17	0.11	0.02	0.30
		Back side	0.15	0.06	0.04	0.25
LTE FDD Band 17	Head	Right cheek	0.17	0.32	0.21	0.70
		Right tilt	0.10	0.40	0.16	0.66
		Left cheek	0.15	0.33	0.08	0.56
		Left tilt	0.09	0.36	0.10	0.55
	body-worn	Front side	0.19	0.11	0.02	0.32
		Back side	0.17	0.06	0.04	0.27

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reported SAR WWAN and WLAN 5GHz and Bluetooth, Σ SAR evaluation						
Frequency band	Position		reported SAR / W/kg			Σ SAR <1.6W/kg
			WWAN	WLAN	BT	
LTE TDD Band 38	Head	Right cheek	0.10	0.32	0.21	0.63
		Right tilt	0.05	0.40	0.16	0.61
		Left cheek	0.05	0.33	0.08	0.46
		Left tilt	0.02	0.36	0.10	0.48
	body-worn	Front side	0.29	0.11	0.02	0.42
		Back side	0.20	0.06	0.04	0.30
LTE TDD Band 41 (Ant1)	Head	Right cheek	0.19	0.32	0.21	0.72
		Right tilt	0.05	0.40	0.16	0.61
		Left cheek	0.05	0.33	0.08	0.46
		Left tilt	0.04	0.36	0.10	0.50
	body-worn	Front side	0.25	0.11	0.02	0.38
		Back side	0.15	0.06	0.04	0.25
LTE TDD Band 41 (Ant3)	Head	Right cheek	0.15	0.32	0.21	0.68
		Right tilt	0.24	0.40	0.16	0.80
		Left cheek	0.14	0.33	0.08	0.55
		Left tilt	0.23	0.36	0.10	0.69
	body-worn	Front side	0.06	0.11	0.02	0.19
		Back side	0.02	0.06	0.04	0.12

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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	7466	Feb.04,2020	Feb.03,2021
			3665	Aug.20,2020	Aug.19,2021
SPEAG	System Validation Dipole	D750V3	1015	Aug.13,2020	Aug.12,2021
		D835V2	4d063	Aug.13,2020	Aug.12,2021
		D1900V2	5d173	Apr.22,2020	Apr.21,2021
		D2450V2	727	Apr.22,2020	Apr.21,2021
		D2600V2	1005	Jan.29,2020	Jan.28,2021
		D5GHzV2	1023	Jan.28,2020	Jan.27,2021
SPEAG	Data acquisition Electronics	DAE4	558	Nov.24,2020	Nov.23,2021
			1336	Aug.13,2020	Aug.12,2021
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
		DASY 52 V52.10.3			
SPEAG	Phantom	SAM	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Jan.28,2020	Jan.27,2021
Agilent	Dual-directional coupler	772D	MY46151242	Aug.17,2020	Aug.16,2021
		778D	MY48220468	Aug.17,2020	Aug.16,2021
Agilent	Signal Generator	N5181A	MY50141235	May.04,2020	May.03,2021
Agilent	Power Meter	E4417A	MY51410006	Mar.09,2020	Mar.08,2021

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Agilent	Power Sensor	E9301H	MY51470001	Mar.09,2020	Mar.08,2021
			MY51470002	Mar.09,2020	Mar.08,2021
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.10,2020	Apr.09,2021
Anritsu	Radio Communication Test	MT8820C	6201061014	Apr.28,2020	Apr.27,2021

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5. Measurements

Date: 2020/12/17

Report No. : E5/2020/B0013

GSM 850_Head_Re Cheek_CH 128

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.922$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.199 W/kg

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

Reference Value = 2.595 V/m; Power Drift = 0.01 dB

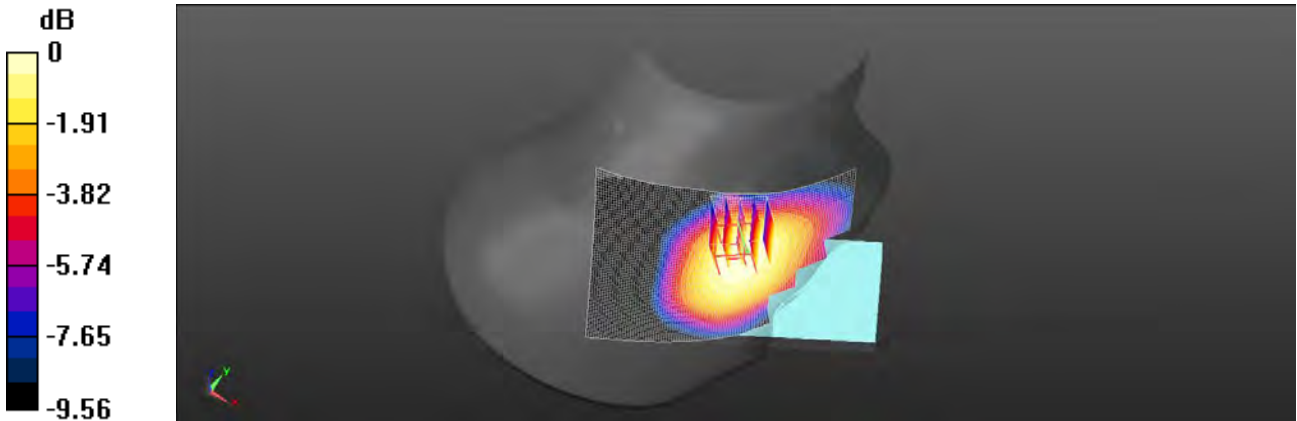
Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.133 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 68.5%

Maximum value of SAR (measured) = 0.196 W/kg



0 dB = 0.196 W/kg = -7.08 dBW/kg

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Date: 2020/12/17

Report No. : E5/2020/B0013

GSM 850_Body-worn_Front side_CH 128_10mm

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.922$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 0.147 W/kg

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

Reference Value = 12.93 V/m; Power Drift = -0.04 dB

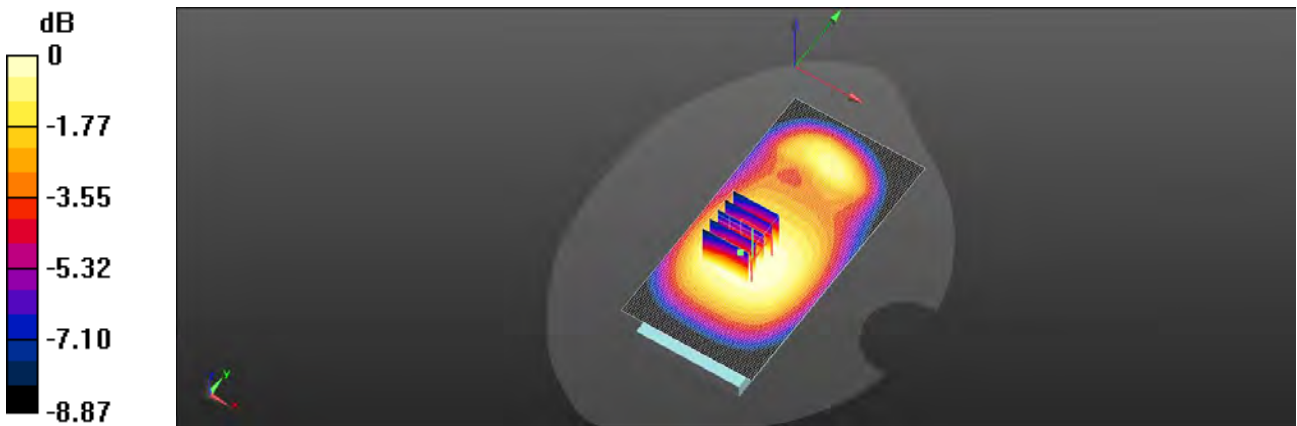
Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.095 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

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

Maximum value of SAR (measured) = 0.146 W/kg



0 dB = 0.146 W/kg = -8.35 dBW/kg

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Date: 2020/12/17

Report No. : E5/2020/B0013

GPRS 850_Hotspot_Right side_CH 128_10mm

Communication System: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:2
Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.922$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x121x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 0.457 W/kg

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

Reference Value = 20.63 V/m; Power Drift = 0.06 dB

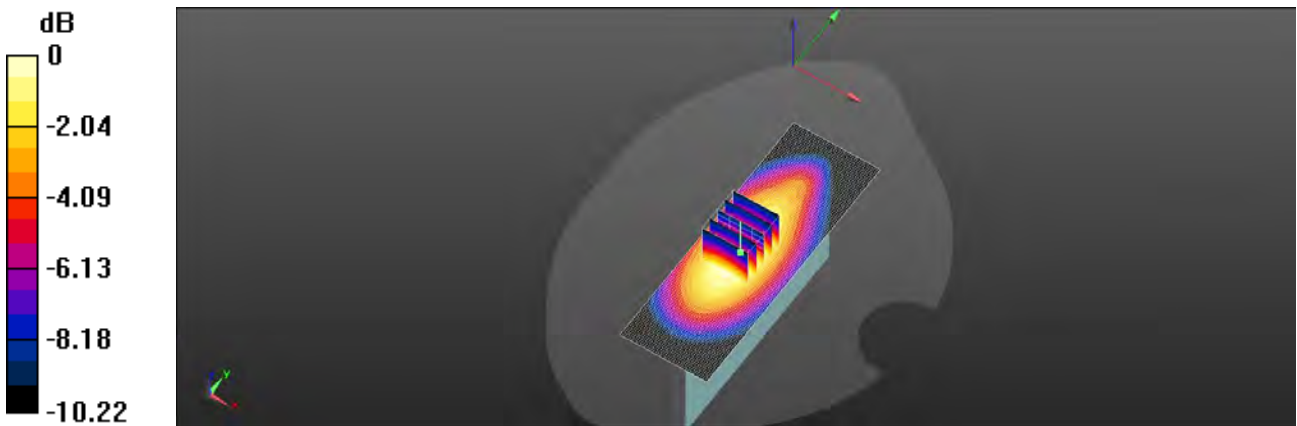
Peak SAR (extrapolated) = 0.543 W/kg

SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.249 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 67.7%

Maximum value of SAR (measured) = 0.465 W/kg



0 dB = 0.465 W/kg = -3.33 dBW/kg

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Date: 2020/12/18

Report No. : E5/2020/B0013

GSM 1900_Head_Re Cheek_CH 810

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.388 \text{ S/m}$; $\epsilon_r = 39.877$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Ambient temperature: 22.3°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.95, 7.95, 7.95); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0746 W/kg

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

Reference Value = 3.761 V/m ; Power Drift = 0.03 dB

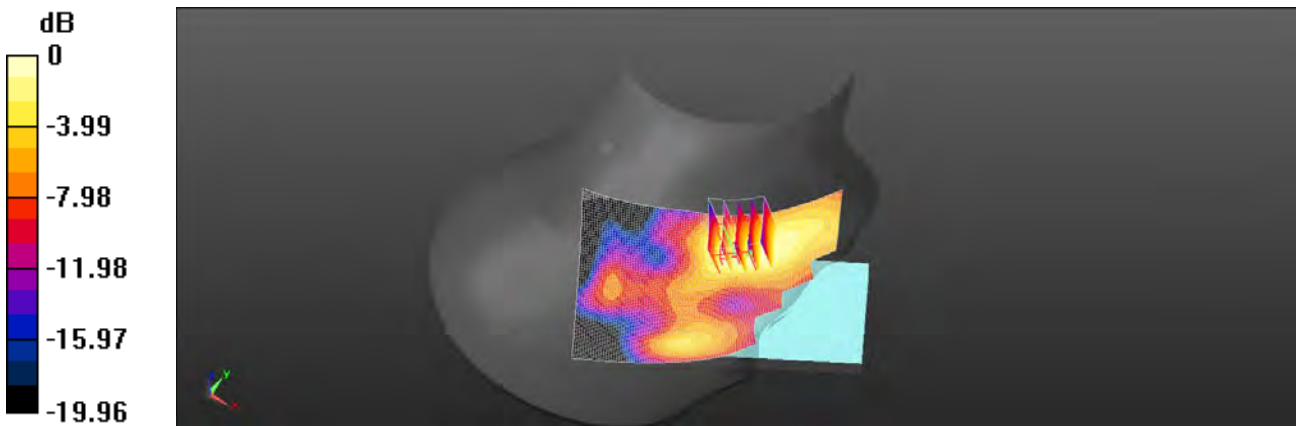
Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.072 W/kg ; SAR(10 g) = 0.044 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 69.1%

Maximum value of SAR (measured) = 0.0901 W/kg



0 dB = $0.0901 \text{ W/kg} = -10.45 \text{ dBW/kg}$

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Date: 2020/12/18

Report No. : E5/2020/B0013

GSM 1900_Body-worn_Front side_CH 810_10mm

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.388$ S/m; $\epsilon_r = 39.877$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.95, 7.95, 7.95); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 0.252 W/kg

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

Reference Value = 13.96 V/m; Power Drift = -0.01 dB

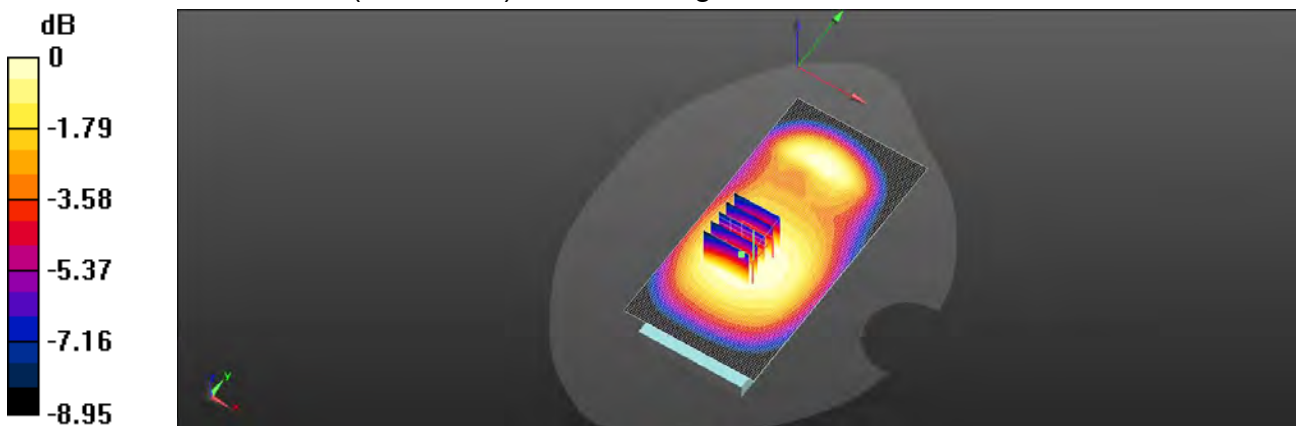
Peak SAR (extrapolated) = 0.280 W/kg

SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.161 W/kg

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

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

Maximum value of SAR (measured) = 0.249 W/kg



0 dB = 0.249 W/kg = -6.04 dBW/kg

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Date: 2020/12/18

Report No. : E5/2020/B0013

GPRS 1900_Hotspot_Bottom side_CH 810_10mm

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.388 \text{ S/m}$; $\epsilon_r = 39.877$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.3°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.95, 7.95, 7.95); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$
Maximum value of SAR (interpolated) = 0.643 W/kg

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

Reference Value = 16.46 V/m ; Power Drift = -0.02 dB

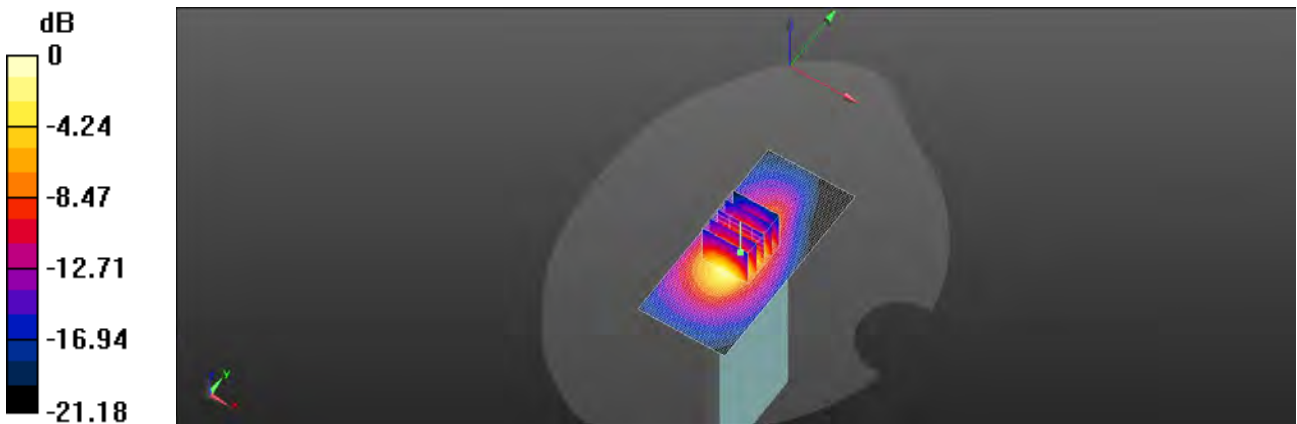
Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.441 W/kg ; SAR(10 g) = 0.230 W/kg

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

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

Maximum value of SAR (measured) = 0.647 W/kg



0 dB = $0.647 \text{ W/kg} = -1.89 \text{ dBW/kg}$

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Date: 2020/12/17

Report No. : E5/2020/B0013

WCDMA Band V_Head_Re Cheek_CH 4233

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 41.84$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Ambient temperature: 22.4°C ; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$
Maximum value of SAR (interpolated) = 0.275 W/kg

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

Reference Value = 4.597 V/m ; Power Drift = 0.02 dB

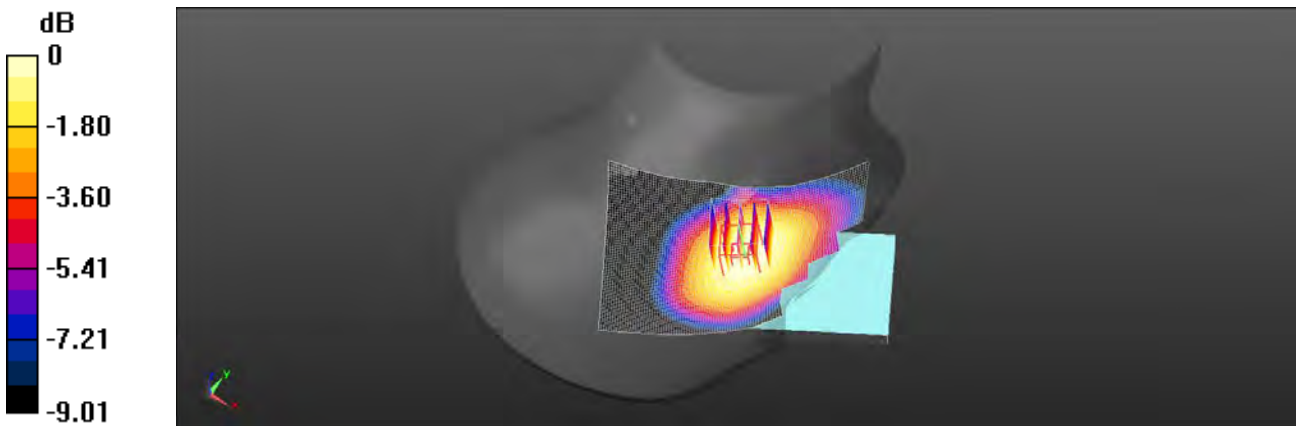
Peak SAR (extrapolated) = 0.294 W/kg

SAR(1 g) = 0.239 W/kg ; SAR(10 g) = 0.185 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm ,

Ratio of SAR at M2 to SAR at M1 = 61%

Maximum value of SAR (measured) = 0.270 W/kg



0 dB = $0.270 \text{ W/kg} = -5.68 \text{ dBW/kg}$

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Date: 2020/12/17

Report No. : E5/2020/B0013

WCDMA Band V_Hotspot_Right side_CH 4132_10mm

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.905 \text{ S/m}$; $\epsilon_r = 41.902$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.4°C ; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$
Maximum value of SAR (interpolated) = 0.571 W/kg

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

Reference Value = 23.05 V/m ; Power Drift = 0.04 dB

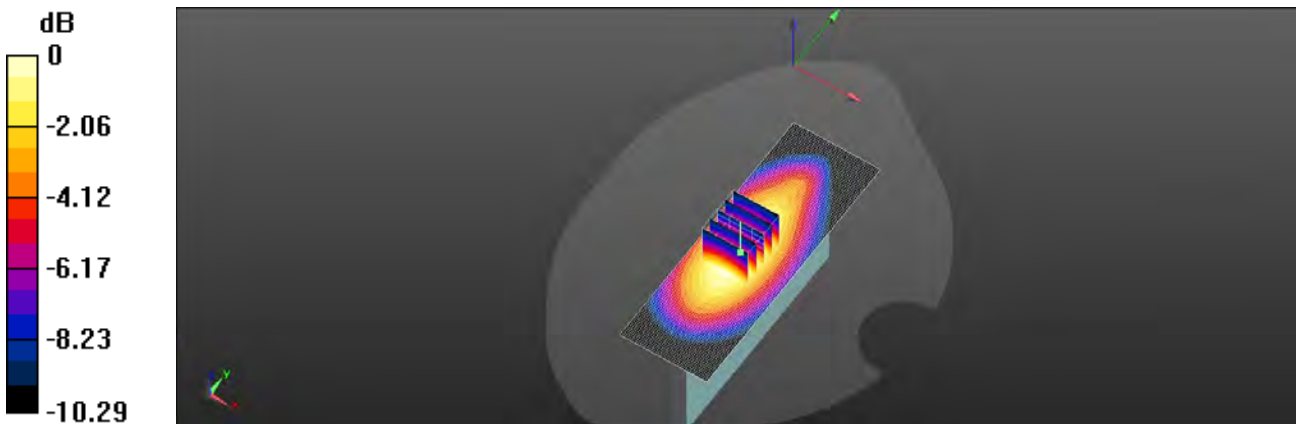
Peak SAR (extrapolated) = 0.682 W/kg

SAR(1 g) = 0.461 W/kg ; SAR(10 g) = 0.309 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

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

Maximum value of SAR (measured) = 0.581 W/kg



0 dB = $0.581 \text{ W/kg} = -2.36 \text{ dBW/kg}$

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Date: 2020/12/17

Report No. : E5/2020/B0013

LTE Band 5 (10MHz)_Head_Re Cheek_CH 20600_QPSK_1-25

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

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.917 \text{ S/m}$; $\epsilon_r = 41.843$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.4°C ; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.198 W/kg

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

Reference Value = 2.699 V/m ; Power Drift = -0.05 dB

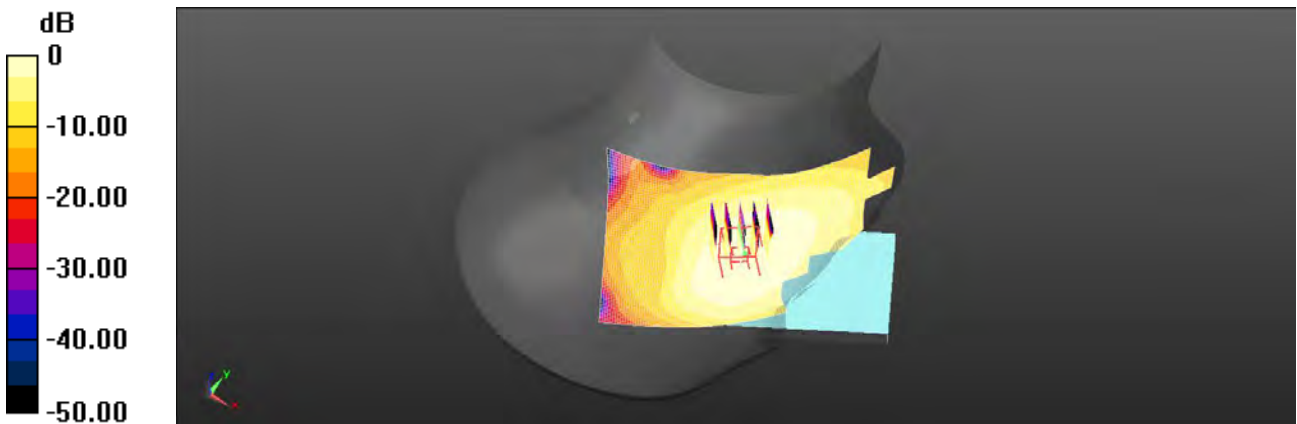
Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.224 W/kg ; SAR(10 g) = 0.127 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 0.196 W/kg



0 dB = $0.196 \text{ W/kg} = -7.08 \text{ dBW/kg}$

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Date: 2020/12/17

Report No. : E5/2020/B0013

LTE Band 5 (10MHz)_Hotspot_Right side_CH 20525_QPSK_1-0_10mm

Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 41.844$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.416 W/kg

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

Reference Value = 20.07 V/m; Power Drift = 0.03 dB

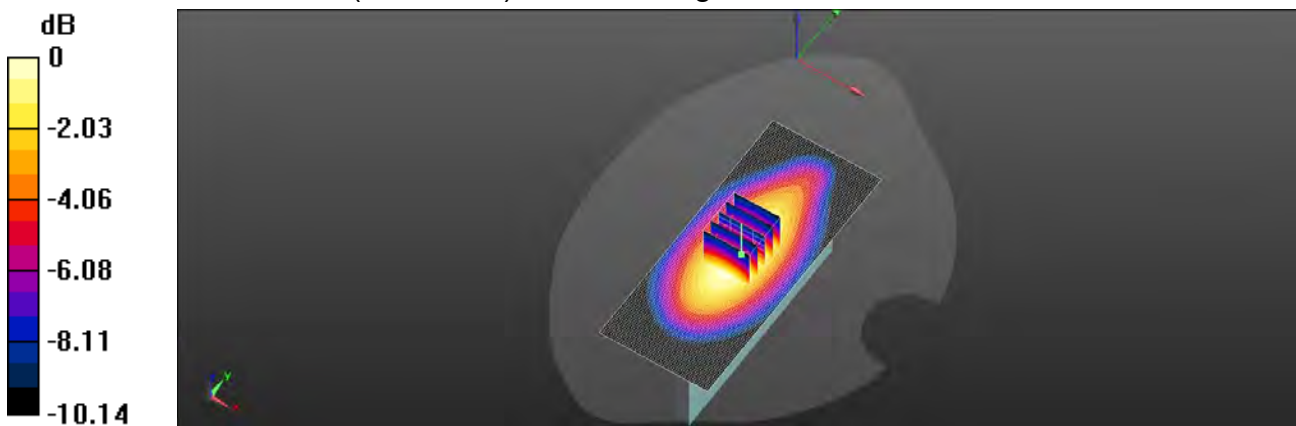
Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.338 W/kg; SAR(10 g) = 0.227 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 68.6%

Maximum value of SAR (measured) = 0.422 W/kg



0 dB = 0.422 W/kg = -3.74 dBW/kg

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Date: 2020/12/16

Report No. : E5/2020/B0013

LTE Band 12 (10MHz)_Head_Re Cheek_CH 23095_QPSK_1-49

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

Medium parameters used: $f = 707.5 \text{ MHz}$; $\sigma = 0.895 \text{ S/m}$; $\epsilon_r = 42.597$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.1°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.78, 9.78, 9.78); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.167 W/kg

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

Reference Value = 4.282 V/m ; Power Drift = 0.06 dB

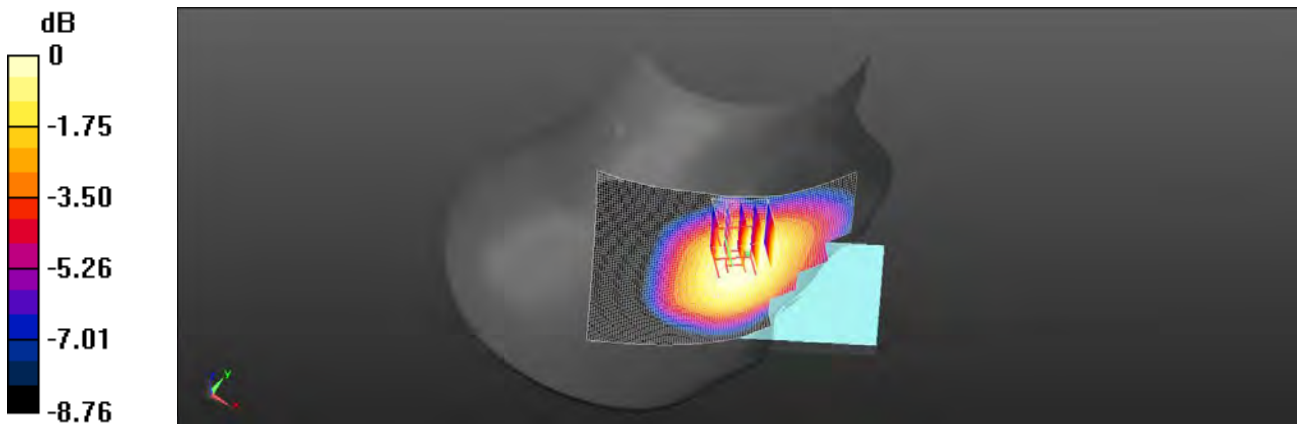
Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.148 W/kg ; SAR(10 g) = 0.116 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

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

Maximum value of SAR (measured) = 0.166 W/kg



0 dB = $0.166 \text{ W/kg} = -7.80 \text{ dBW/kg}$

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Date: 2020/12/16

Report No. : E5/2020/B0013

LTE Band 12 (10MHz)_Hotspot_Right side_CH 23130_QPSK_1-0_10mm

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

Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.557$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.78, 9.78, 9.78); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.245 W/kg

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

Reference Value = 17.13 V/m ; Power Drift = -0.02 dB

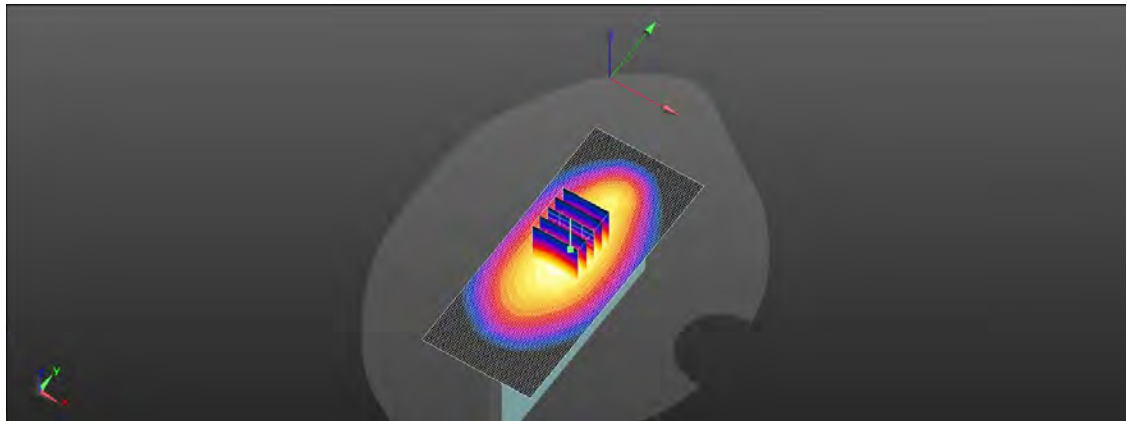
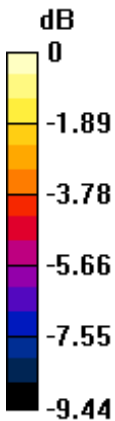
Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.199 W/kg ; SAR(10 g) = 0.137 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 69.1%

Maximum value of SAR (measured) = 0.246 W/kg



0 dB = $0.246 \text{ W/kg} = -6.09 \text{ dBW/kg}$

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Date: 2020/12/16

Report No. : E5/2020/B0013

LTE Band 17 (10MHz)_Head_Re Cheek_CH 23790_QPSK_1-49

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

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.898 \text{ S/m}$; $\epsilon_r = 42.559$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.1°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.78, 9.78, 9.78); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.172 W/kg

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

Reference Value = 4.563 V/m ; Power Drift = 0.02 dB

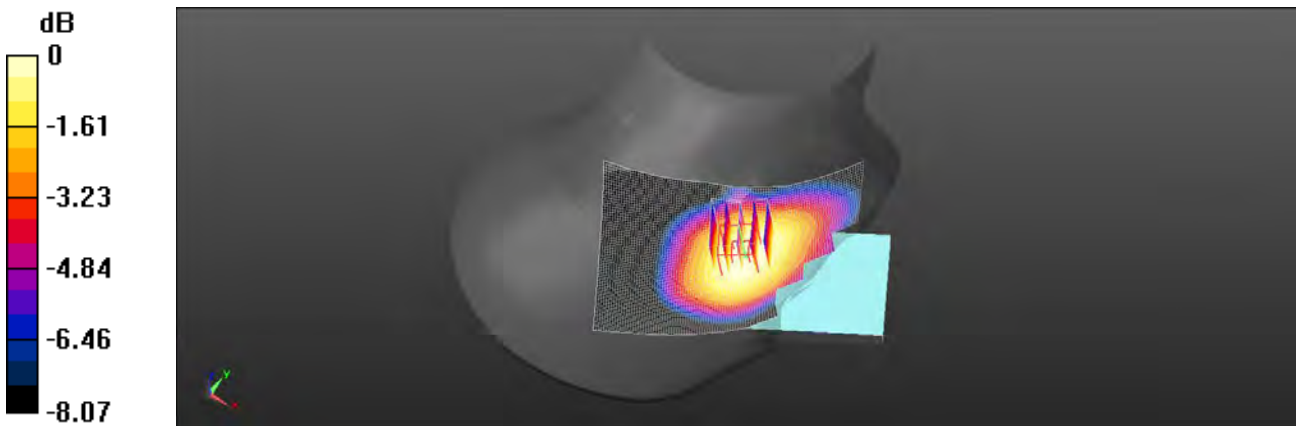
Peak SAR (extrapolated) = 0.187 W/kg

SAR(1 g) = 0.152 W/kg ; SAR(10 g) = 0.121 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.171 W/kg



0 dB = $0.171 \text{ W/kg} = -7.68 \text{ dBW/kg}$

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Date: 2020/12/16

Report No. : E5/2020/B0013

LTE Band 17 (10MHz)_Hotspot_Right side_CH 23780_QPSK_1-25_10mm

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

Medium parameters used: $f = 709 \text{ MHz}$; $\sigma = 0.897 \text{ S/m}$; $\epsilon_r = 42.568$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.78, 9.78, 9.78); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.289 W/kg

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

Reference Value = 17.65 V/m ; Power Drift = 0.04 dB

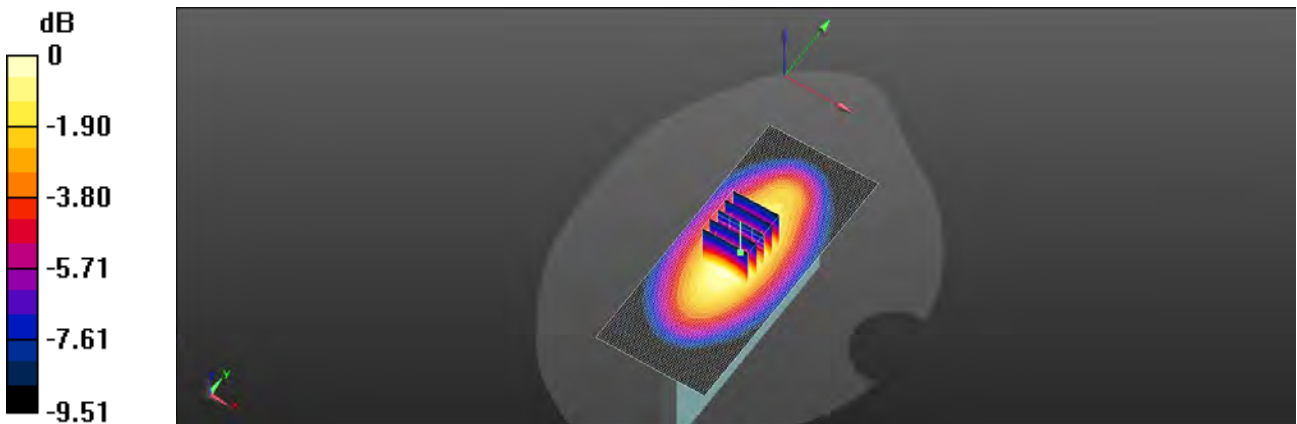
Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.236 W/kg ; SAR(10 g) = 0.162 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 0.293 W/kg



0 dB = 0.293 W/kg = -5.33 dBW/kg

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Date: 2020/12/19

Report No. : E5/2020/B0013

LTE Band 38 (20MHz)_Head_Re Cheek_CH 37850_QPSK_1-99

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

Medium parameters used: $f = 2580 \text{ MHz}$; $\sigma = 1.94 \text{ S/m}$; $\epsilon_r = 39.253$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

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

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.098 V/m ; Power Drift = 0.03 dB

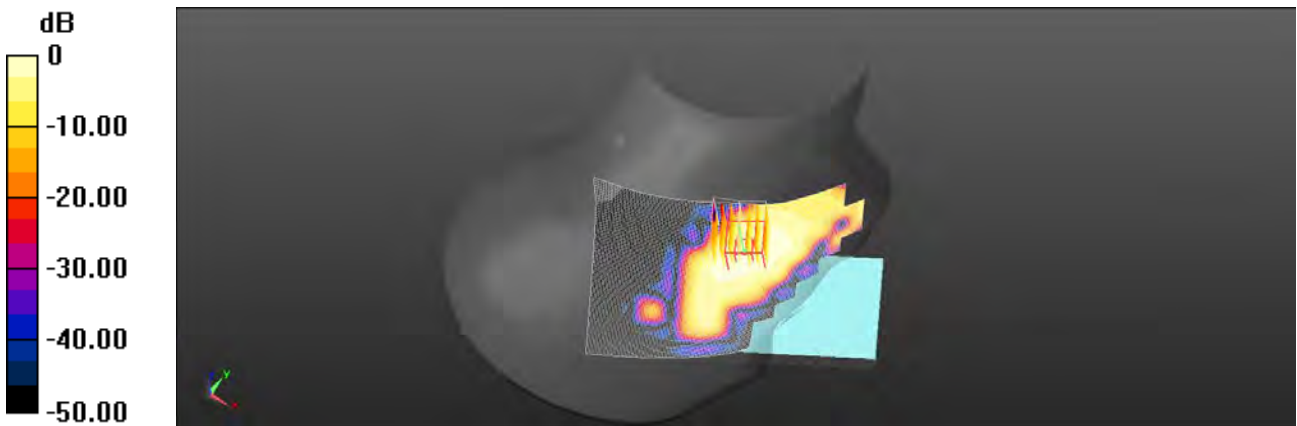
Peak SAR (extrapolated) = 0.162 W/kg

SAR(1 g) = 0.086 W/kg ; SAR(10 g) = 0.046 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 0.122 W/kg



0 dB = $0.122 \text{ W/kg} = -9.13 \text{ dBW/kg}$

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Date: 2020/12/19

Report No. : E5/2020/B0013

LTE Band 38 (20MHz)_Hotspot_Bottom side_CH 37850_QPSK_1-99_10mm

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

Medium parameters used: $f = 2580 \text{ MHz}$; $\sigma = 1.94 \text{ S/m}$; $\epsilon_r = 39.253$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.676 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.187 V/m ; Power Drift = -0.04 dB

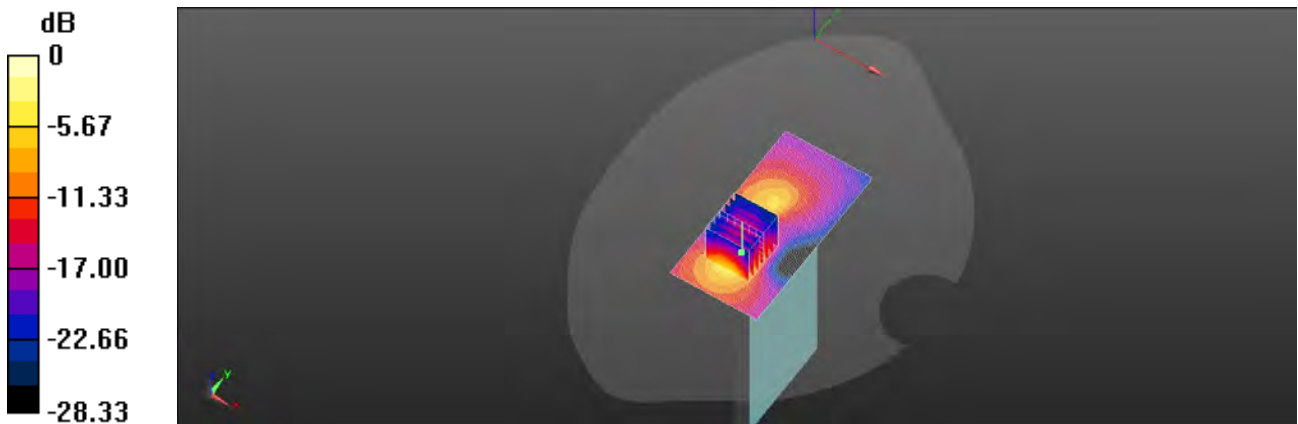
Peak SAR (extrapolated) = 0.925 W/kg

SAR(1 g) = 0.390 W/kg ; SAR(10 g) = 0.144 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 46.3%

Maximum value of SAR (measured) = 0.649 W/kg



0 dB = $0.649 \text{ W/kg} = -1.88 \text{ dBW/kg}$

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Date: 2020/12/20

Report No. : E5/2020/B0013

LTE Band 41 (20MHz)_Head_Re Cheek_CH 41055_QPSK_1-99

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

Medium parameters used: $f = 2636.5$ MHz; $\sigma = 2.001$ S/m; $\epsilon_r = 39.193$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.183 W/kg

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

Reference Value = 1.537 V/m; Power Drift = 0.05 dB

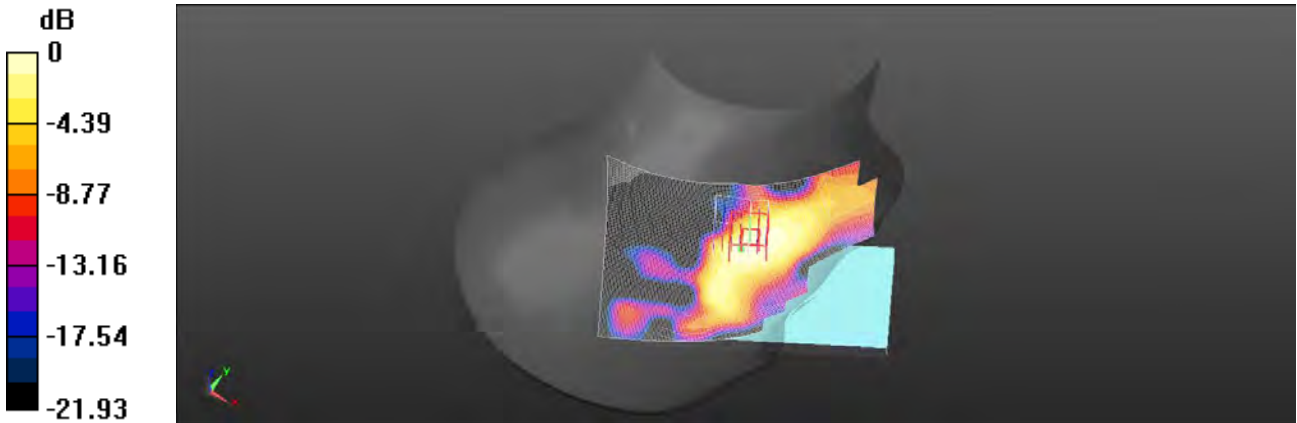
Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.067 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

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

Maximum value of SAR (measured) = 0.174 W/kg



0 dB = 0.174 W/kg = -7.61 dBW/kg

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Date: 2020/12/20

Report No. : E5/2020/B0013

LTE Band 41 (20MHz)_Hotspot_Bottom side_CH 41055_QPSK_1-99_10mm

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

Medium parameters used: $f = 2636.5$ MHz; $\sigma = 2.001$ S/m; $\epsilon_r = 39.193$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.736 W/kg

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

Reference Value = 2.835 V/m; Power Drift = 0.03 dB

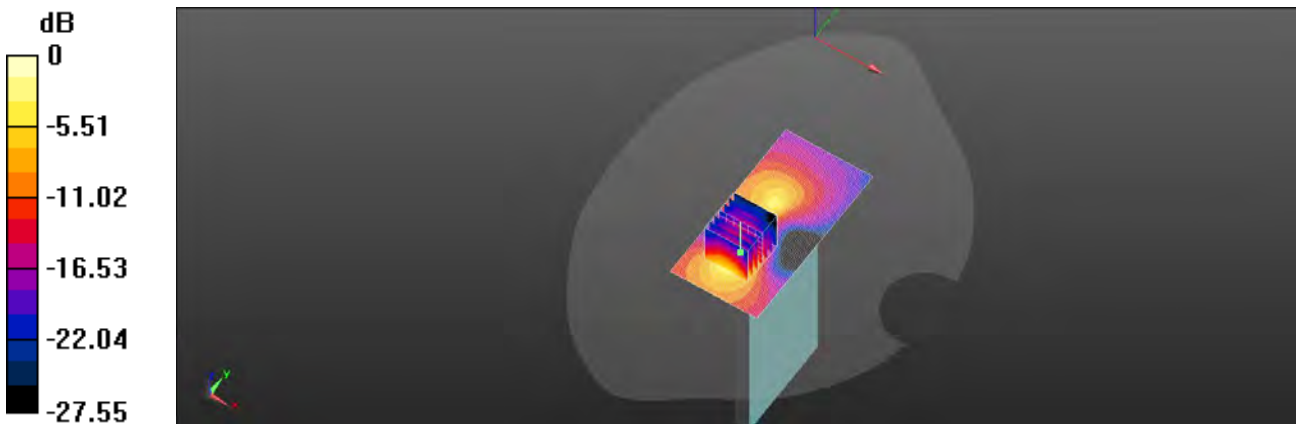
Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.431 W/kg; SAR(10 g) = 0.163 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

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

Maximum value of SAR (measured) = 0.717 W/kg



0 dB = 0.717 W/kg = -1.44 dBW/kg

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Date: 2020/12/21

Report No. : E5/2020/B0013

LTE Band 41 (20MHz)_Head_Re Tilt_CH 39750_QPSK_1-0_Ant 3

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

Medium parameters used: $f = 2506$ MHz; $\sigma = 1.858$ S/m; $\epsilon_r = 39.367$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.357 W/kg

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

Reference Value = 9.888 V/m; Power Drift = -0.03 dB

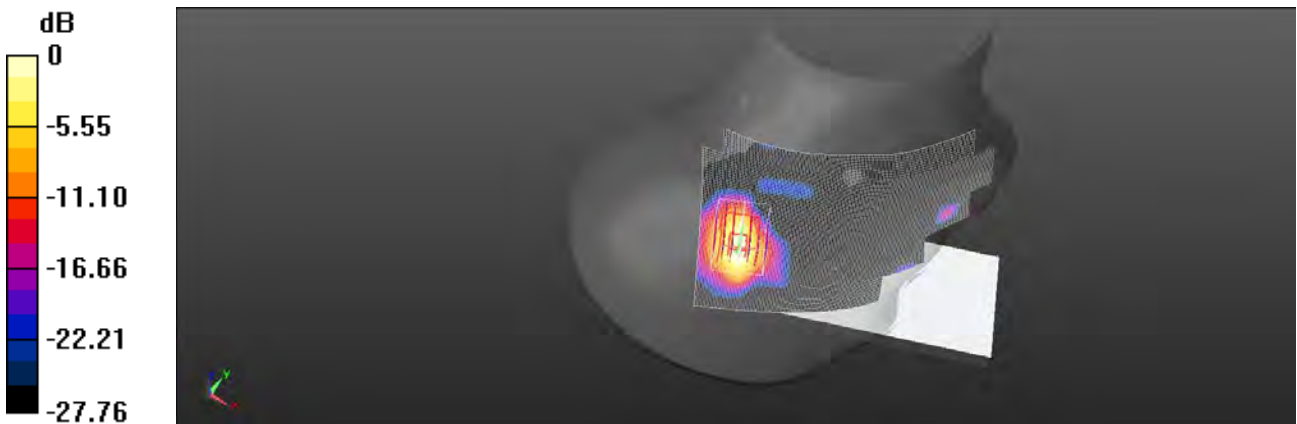
Peak SAR (extrapolated) = 0.464 W/kg

SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.084 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 65.9%

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



0 dB = 0.335 W/kg = -4.74 dBW/kg

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Date: 2020/12/21

Report No. : E5/2020/B0013

LTE Band 41 (20MHz)_Hotspot_Top side_CH 39750_QPSK_1-0_10mm_Ant 3

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

Medium parameters used: $f = 2506$ MHz; $\sigma = 1.858$ S/m; $\epsilon_r = 39.367$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.173 W/kg

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

Reference Value = 7.592 V/m; Power Drift = 0.02 dB

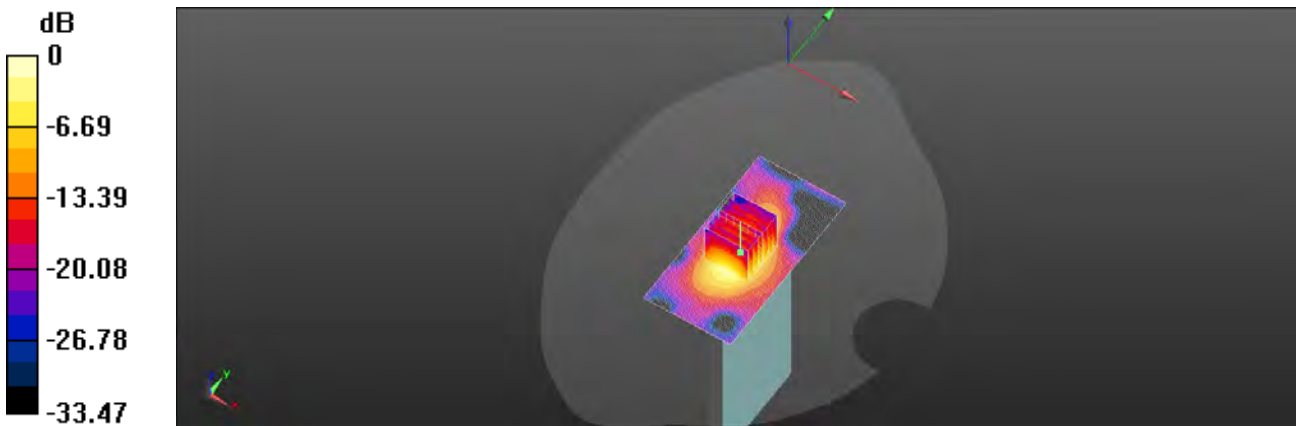
Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.041 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

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



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

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Date: 2020/12/19

Report No. : E5/2020/B0013

WLAN 802.11b_Head_Re Cheek_CH 10

Communication System: WLAN; Frequency: 2457 MHz; Duty Cycle: 1:0.990

Medium parameters used: $f = 2457$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 38.799$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.3°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.85, 7.85, 7.85); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.991 W/kg

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

Reference Value = 9.597 V/m; Power Drift = 0.01 dB

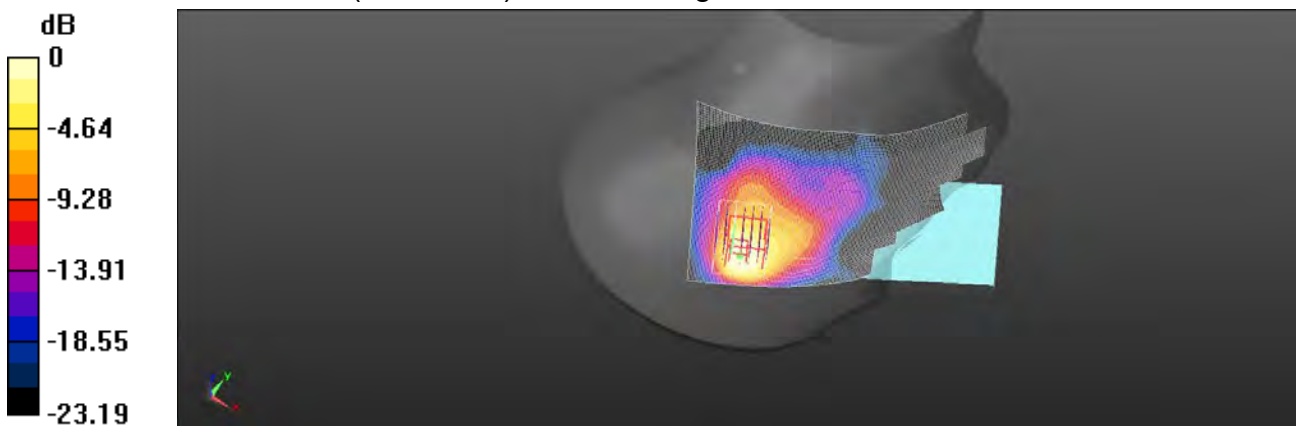
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.477 W/kg; SAR(10 g) = 0.232 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 0.738 W/kg



0 dB = 0.738 W/kg = -1.32 dBW/kg

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Date: 2020/12/19

Report No. : E5/2020/B0013

WLAN 802.11b_Hotspot_Left side_CH 10_10mm

Communication System: WLAN; Frequency: 2457 MHz; Duty Cycle: 1:0.990

Medium parameters used: $f = 2457$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 38.799$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.85, 7.85, 7.85); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.146 W/kg

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

Reference Value = 2.043 V/m; Power Drift = 0.04 dB

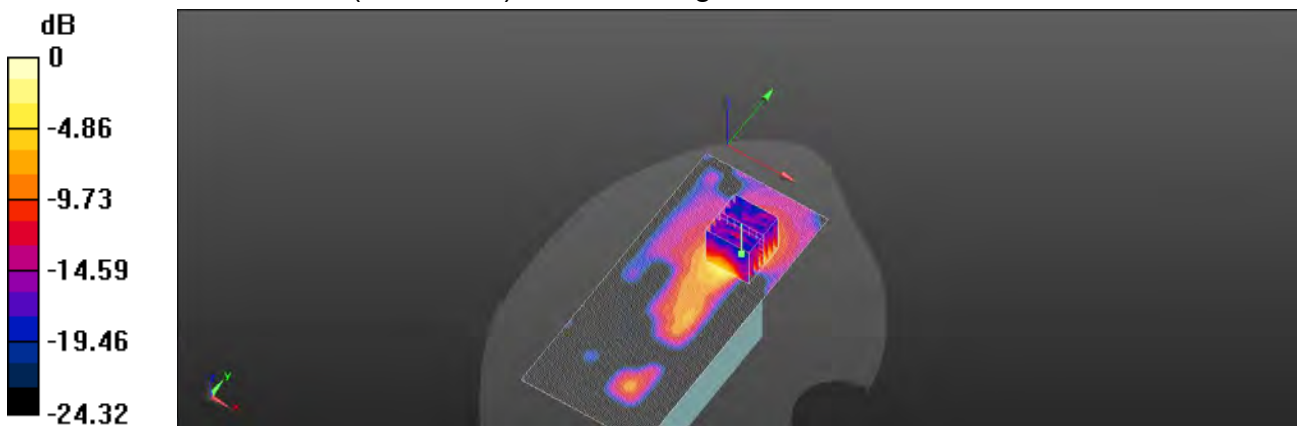
Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.034 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48.4%

Maximum value of SAR (measured) = 0.139 W/kg



0 dB = 0.139 W/kg = -8.57 dBW/kg

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Date: 2020/12/19

Report No. : E5/2020/B0013

Bluetooth(GFSK)_Head_Re Cheek_CH 39

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:0.768
Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.77 \text{ S/m}$; $\epsilon_r = 38.824$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Ambient temperature: 22.3°C ; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.85, 7.85, 7.85); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (91x151x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$
Maximum value of SAR (interpolated) = 0.176 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.361 V/m ; Power Drift = -0.06 dB

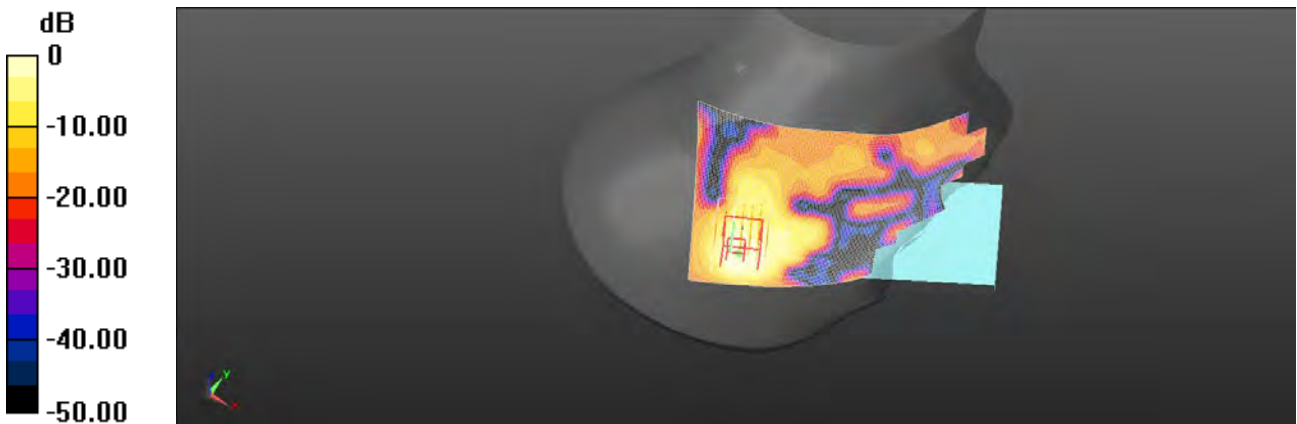
Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.101 W/kg ; SAR(10 g) = 0.043 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

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

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



$0 \text{ dB} = 0.156 \text{ W/kg} = -8.07 \text{ dBW/kg}$

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Date: 2020/12/19

Report No. : E5/2020/B0013

Bluetooth(GFSK)_Body-worn_Back side_CH 39_10mm

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:0.768

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.77 \text{ S/m}$; $\epsilon_r = 38.824$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.85, 7.85, 7.85); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (81x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0398 W/kg

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

Reference Value = 0.9560 V/m; Power Drift = -0.02 dB

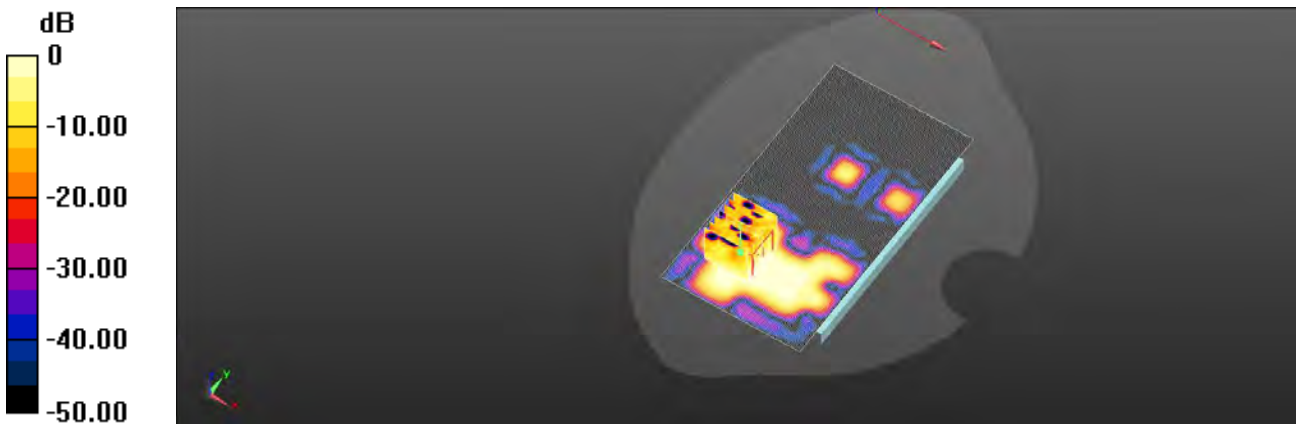
Peak SAR (extrapolated) = 0.0480 W/kg

SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.00747 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48.5%

Maximum value of SAR (measured) = 0.0281 W/kg



0 dB = 0.0281 W/kg = -15.51 dBW/kg

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Date: 2020/12/20

Report No. : E5/2020/B0013

WLAN 802.11ac(80M) 5.2G_Head_Re Tilt_CH 42

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:0.927

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.61 \text{ S/m}$; $\epsilon_r = 35.629$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.6, 5.6, 5.6); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (111x181x1): 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 = 5.461 V/m ; Power Drift = 0.04 dB

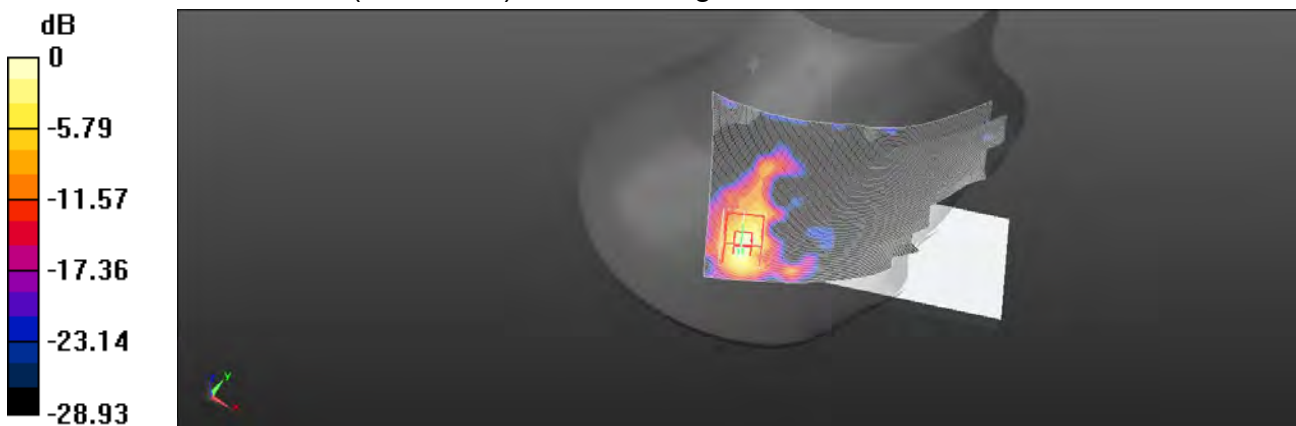
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.355 W/kg ; SAR(10 g) = 0.095 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

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

Maximum value of SAR (measured) = 0.744 W/kg



0 dB = $0.744 \text{ W/kg} = -1.28 \text{ dBW/kg}$

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Date: 2020/12/20

Report No. : E5/2020/B0013

WLAN 802.11ac(80M) 5.2G_Body-worn_Front side_CH 42_10mm

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:0.927

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.61 \text{ S/m}$; $\epsilon_r = 35.629$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.6, 5.6, 5.6); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (101x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.259 W/kg

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

Reference Value = 0.9680 V/m; Power Drift = -0.06 dB

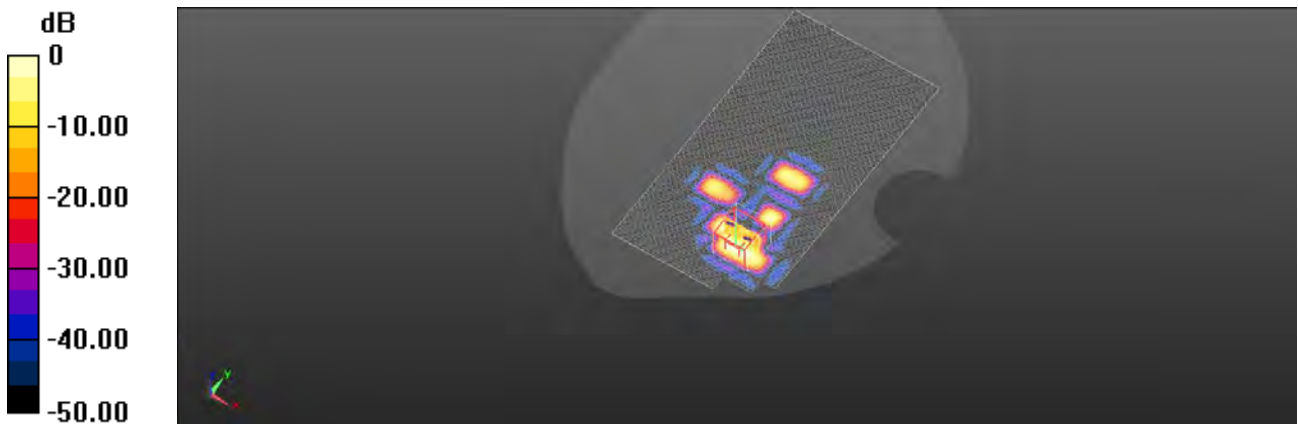
Peak SAR (extrapolated) = 0.370 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.024 W/kg

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

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

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



0 dB = 0.237 W/kg = -6.25 dBW/kg

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Date: 2020/12/20

Report No. : E5/2020/B0013

WLAN 802.11ac(80M) 5.3G_Head_Re Tilt_CH 58

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.927

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.689 \text{ S/m}$; $\epsilon_r = 35.538$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.45, 5.45, 5.45); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (111x181x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

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

Reference Value = 5.122 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.288 W/kg ; SAR(10 g) = 0.078 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.613 W/kg



0 dB = $0.613 \text{ W/kg} = -2.12 \text{ dBW/kg}$

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Date: 2020/12/20

Report No. : E5/2020/B0013

WLAN 802.11ac(80M) 5.3G_Body-worn_Front side_CH 58_10mm

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.927

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.689 \text{ S/m}$; $\epsilon_r = 35.538$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.45, 5.45, 5.45); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (101x191x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0632 W/kg

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

Reference Value = 1.159 V/m ; Power Drift = 0.03 dB

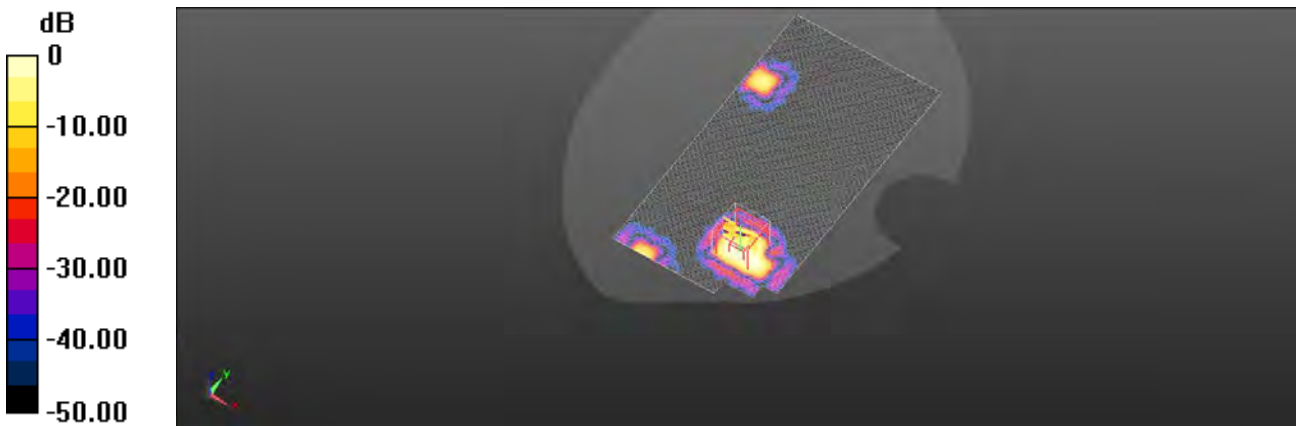
Peak SAR (extrapolated) = 0.402 W/kg

SAR(1 g) = 0.031 W/kg ; SAR(10 g) = 0.00652 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 0.0509 W/kg



$0 \text{ dB} = 0.0509 \text{ W/kg} = -12.93 \text{ dBW/kg}$

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Date: 2020/12/21

Report No. : E5/2020/B0013

WLAN 802.11ac(80M) 5.6G_Head_Re Tilt_CH 138

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:0.927

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.094 \text{ S/m}$; $\epsilon_r = 35.086$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.1°C ; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (111x181x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.681 W/kg

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

Reference Value = 4.122 V/m ; Power Drift = 0.05 dB

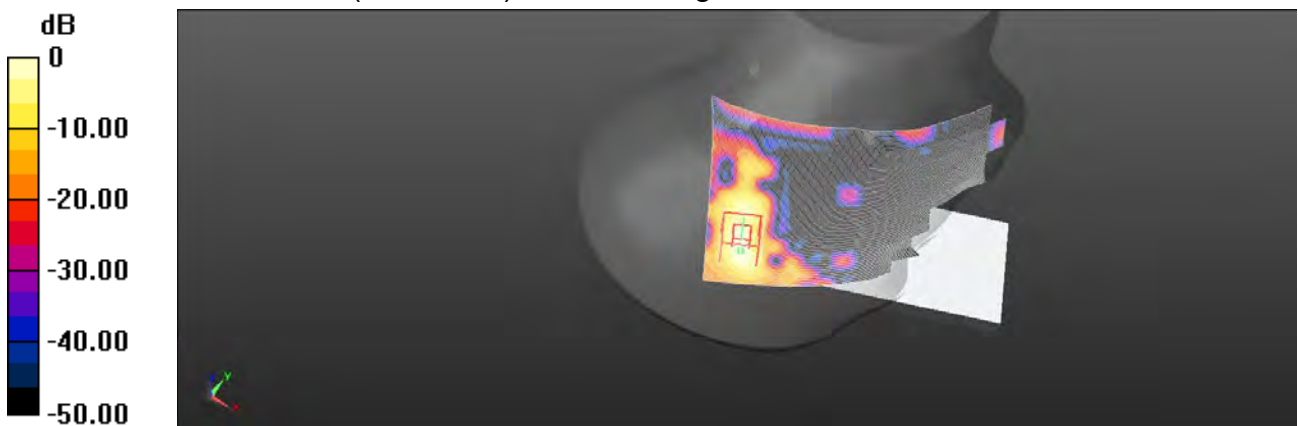
Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.313 W/kg ; SAR(10 g) = 0.087 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

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

Maximum value of SAR (measured) = 0.698 W/kg



0 dB = $0.698 \text{ W/kg} = -1.56 \text{ dBW/kg}$

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Date: 2020/12/21

Report No. : E5/2020/B0013

WLAN 802.11ac(80M) 5.6G_Body-worn_Front side_CH 138_10mm

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:0.927

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.094 \text{ S/m}$; $\epsilon_r = 35.086$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C ; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (101x191x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0720 W/kg

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

Reference Value = 1.029 V/m ; Power Drift = 0.01 dB

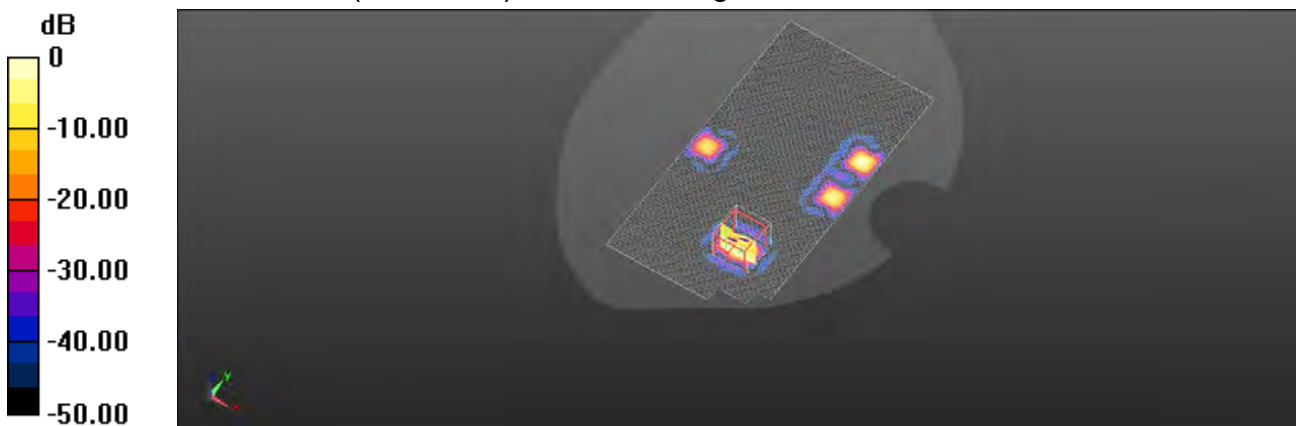
Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.030 W/kg ; SAR(10 g) = 0.0077 W/kg

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

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

Maximum value of SAR (measured) = 0.0682 W/kg



0 dB = 0.0682 W/kg = -11.66 dBW/kg

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Date: 2020/12/21

Report No. : E5/2020/B0013

WLAN 802.11ac(80M) 5.8G_Head_Re Tilt_CH 155

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.927

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.182 \text{ S/m}$; $\epsilon_r = 34.986$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.04, 5.04, 5.04); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (111x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.732 W/kg

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

Reference Value = 4.271 V/m; Power Drift = 0.05 dB

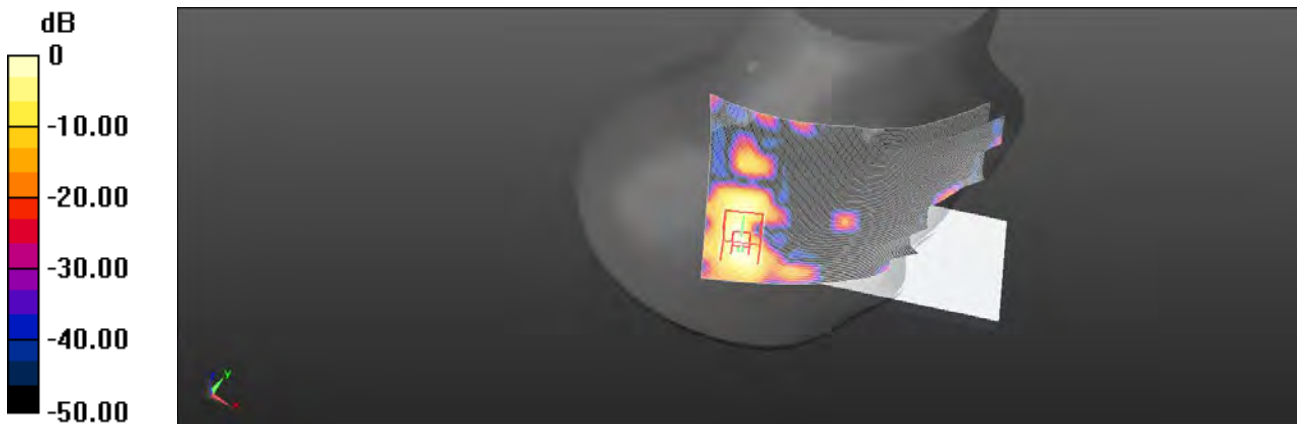
Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.089 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

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

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



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

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Date: 2020/12/21

Report No. : E5/2020/B0013

WLAN 802.11ac(80M) 5.8G_Hotspot_Top side_CH 155_10mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.927

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.182 \text{ S/m}$; $\epsilon_r = 34.986$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.04, 5.04, 5.04); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.161 W/kg

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

Reference Value = 2.193 V/m ; Power Drift = 0.01 dB

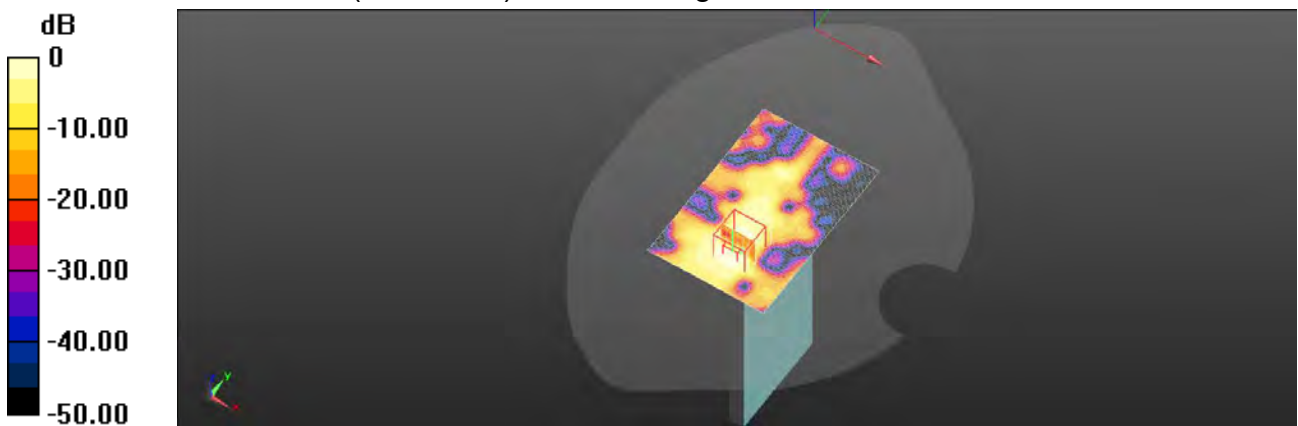
Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.071 W/kg ; SAR(10 g) = 0.023 W/kg

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

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

Maximum value of SAR (measured) = 0.152 W/kg



$0 \text{ dB} = 0.152 \text{ W/kg} = -8.18 \text{ dBW/kg}$

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6. SAR System Performance Verification

Date: 2020/12/16

Report No. : E5/2020/B0013

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 42.365$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.78, 9.78, 9.78); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 2.62 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.63 V/m ; Power Drift = -0.01 dB

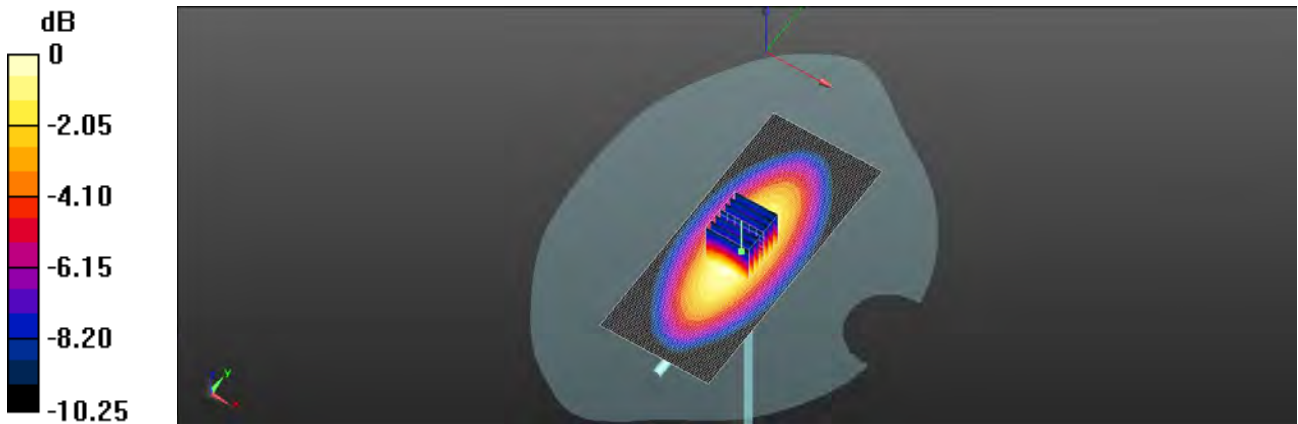
Peak SAR (extrapolated) = 3.15 W/kg

SAR(1 g) = 2.14 W/kg ; SAR(10 g) = 1.41 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 68.2%

Maximum value of SAR (measured) = 2.70 W/kg



0 dB = 2.70 W/kg = 4.31 dBW/kg

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Date: 2020/12/17

Report No. : E5/2020/B0013

Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.907 \text{ S/m}$; $\epsilon_r = 41.874$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.4°C ; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$
Maximum value of SAR (interpolated) = 2.89 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 62.48 V/m ; Power Drift = -0.06 dB

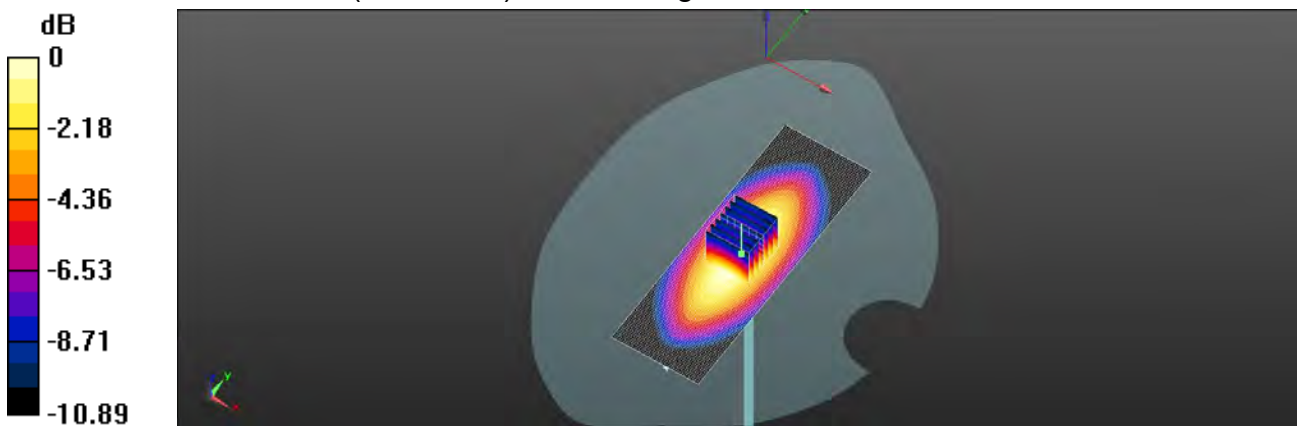
Peak SAR (extrapolated) = 3.42 W/kg

SAR(1 g) = 2.39 W/kg ; SAR(10 g) = 1.55 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 66.8%

Maximum value of SAR (measured) = 2.91 W/kg



0 dB = $2.91 \text{ W/kg} = 4.63 \text{ dBW/kg}$

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Date: 2020/12/18

Report No. : E5/2020/B0013

Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:10

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 39.881$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.95, 7.95, 7.95); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.2 W/kg

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

Reference Value = 110.8 V/m; Power Drift = -0.01 dB

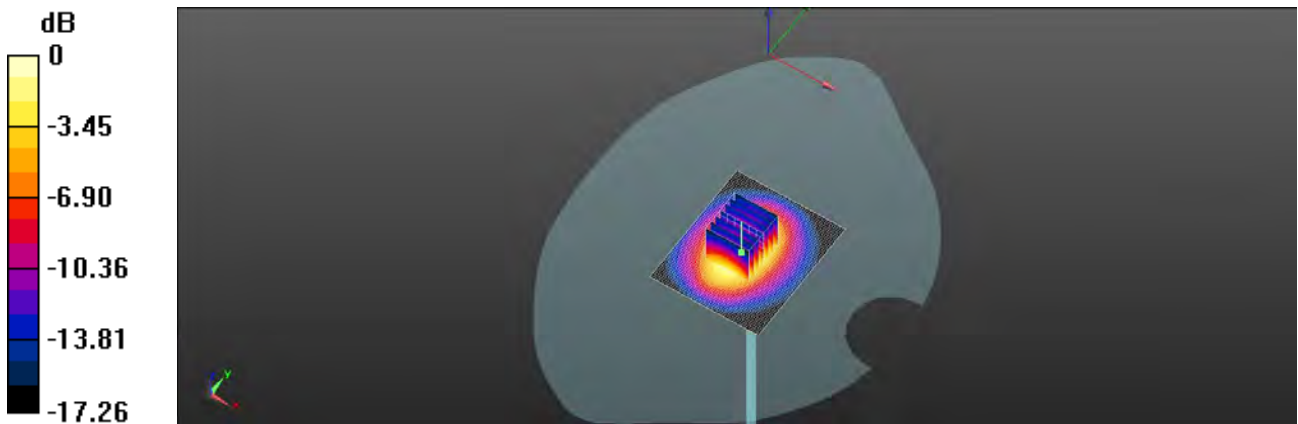
Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 9.76 W/kg; SAR(10 g) = 5.11 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg = 11.12 dBW/kg

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Date: 2020/12/19

Report No. : E5/2020/B0013

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.778 \text{ S/m}$; $\epsilon_r = 38.804$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C ; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.85, 7.85, 7.85); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (51x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 18.7 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 119.0 V/m ; Power Drift = -0.02 dB

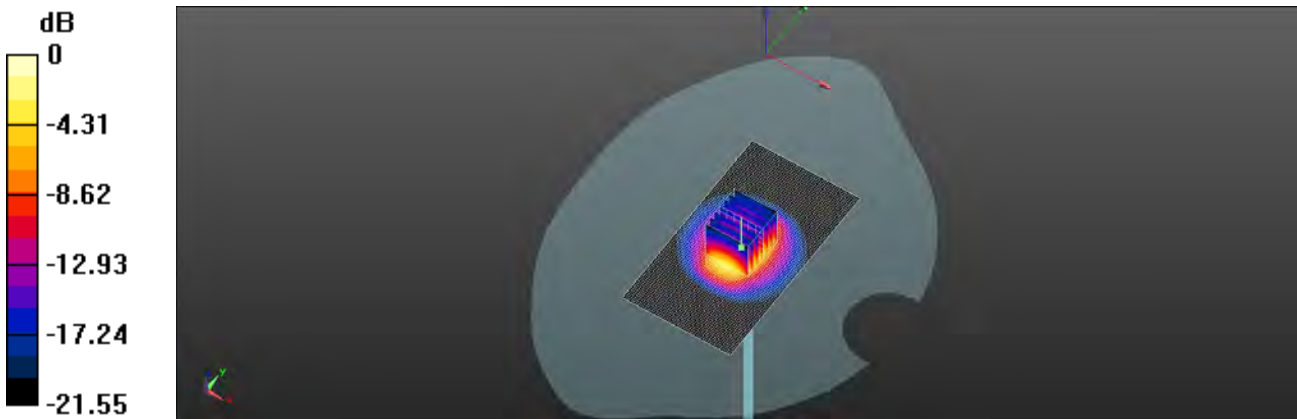
Peak SAR (extrapolated) = 22.7 W/kg

SAR(1 g) = 13.2 W/kg ; SAR(10 g) = 6.28 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 69.9%

Maximum value of SAR (measured) = 17.1 W/kg



0 dB = $17.1 \text{ W/kg} = 13.34 \text{ dBW/kg}$

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Date: 2020/12/19

Report No. : E5/2020/B0013

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.962 \text{ S/m}$; $\epsilon_r = 39.239$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 23.5 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 111.5 V/m ; Power Drift = -0.03 dB

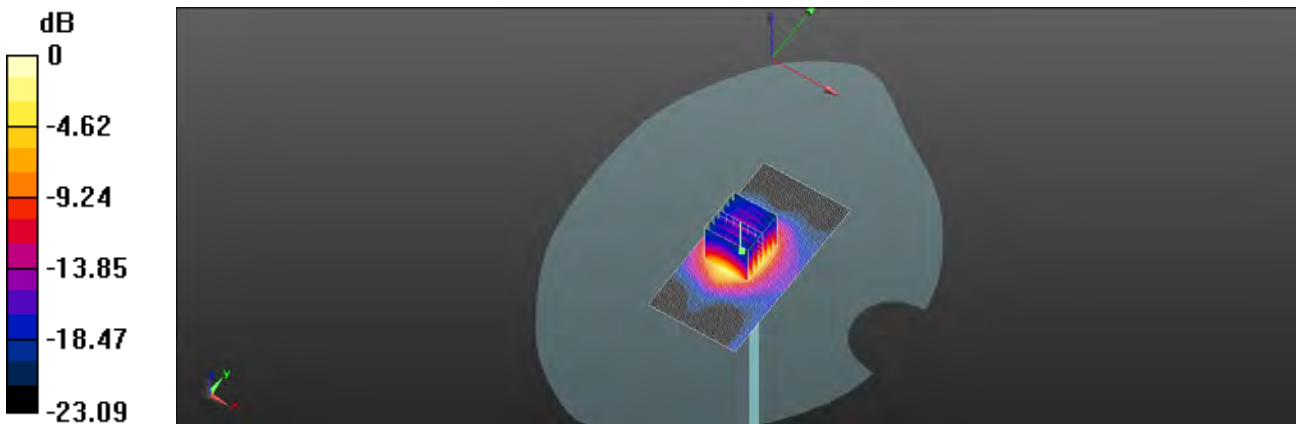
Peak SAR (extrapolated) = 32.9 W/kg

SAR(1 g) = 14.6 W/kg ; SAR(10 g) = 6.47 W/kg

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

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

Maximum value of SAR (measured) = 23.1 W/kg



0 dB = $23.1 \text{ W/kg} = 13.65 \text{ dBW/kg}$

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Date: 2020/12/20

Report No. : E5/2020/B0013

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.963 \text{ S/m}$; $\epsilon_r = 39.255$; $\rho = 650 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 23.5 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 91.74 V/m ; Power Drift = -0.06 dB

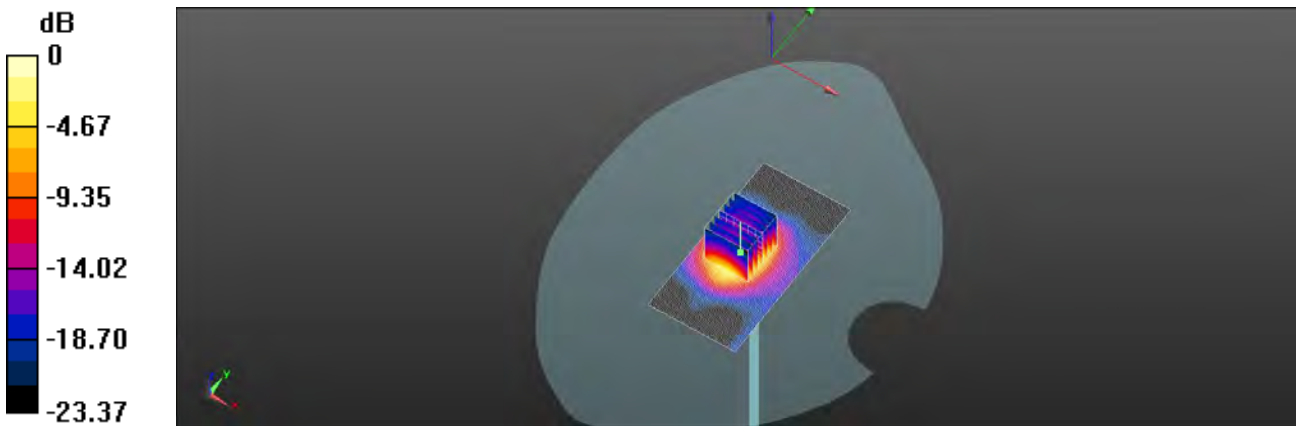
Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 14.7 W/kg ; SAR(10 g) = 6.49 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 22.5 W/kg



0 dB = $22.5 \text{ W/kg} = 13.55 \text{ dBW/kg}$

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Date: 2020/12/21

Report No. : E5/2020/B0013

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.961 \text{ S/m}$; $\epsilon_r = 39.224$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.21, 7.21, 7.21); Calibrated: 2020/8/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2020/11/24
- Phantom: SAM
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 24.1 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 103.0 V/m ; Power Drift = -0.01 dB

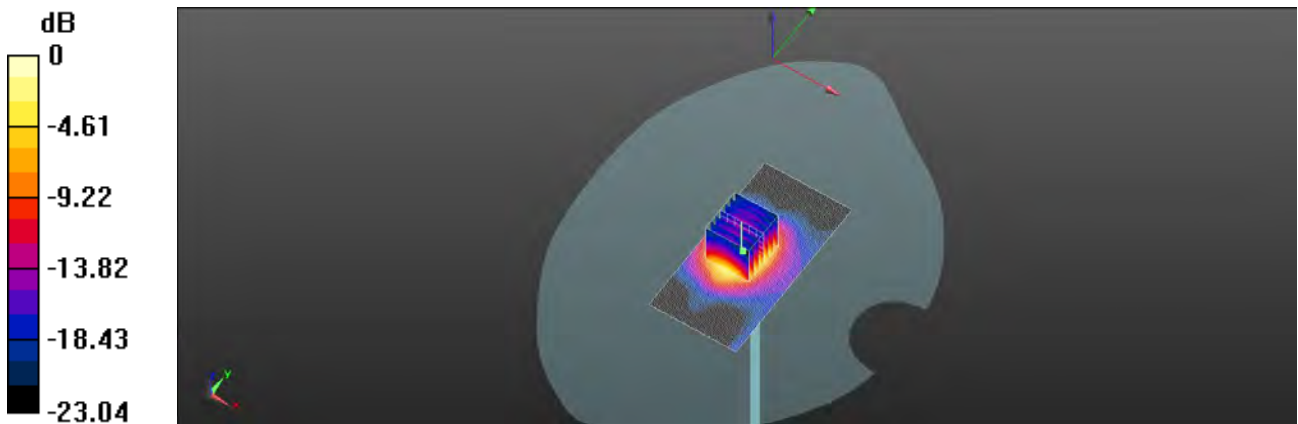
Peak SAR (extrapolated) = 33.3 W/kg

SAR(1 g) = 14.9 W/kg ; SAR(10 g) = 6.56 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 64.1%

Maximum value of SAR (measured) = 23.5 W/kg



0 dB = $23.5 \text{ W/kg} = 13.71 \text{ dBW/kg}$

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Date: 2020/12/20

Report No. : E5/2020/B0013

Dipole 5200 MHz_SN:1023

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.597 \text{ S/m}$; $\epsilon_r = 35.631$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.6, 5.6, 5.6); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x81x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 12.1 W/kg

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

Reference Value = 72.44 V/m ; Power Drift = -0.05 dB

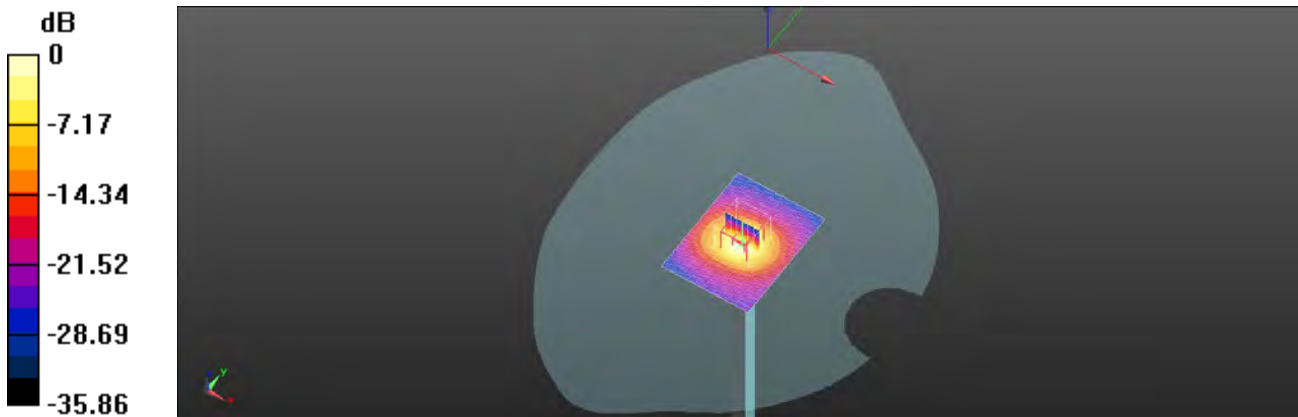
Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 8.14 W/kg ; SAR(10 g) = 2.31 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

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

Maximum value of SAR (measured) = 12.1 W/kg



0 dB = $12.1 \text{ W/kg} = 12.43 \text{ dBW/kg}$

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Date: 2020/12/20

Report No. : E5/2020/B0013

Dipole 5300 MHz_SN:1023

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 4.701 \text{ S/m}$; $\epsilon_r = 35.498$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.45, 5.45, 5.45); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x81x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 12.6 W/kg

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

Reference Value = 69.16 V/m ; Power Drift = 0.02 dB

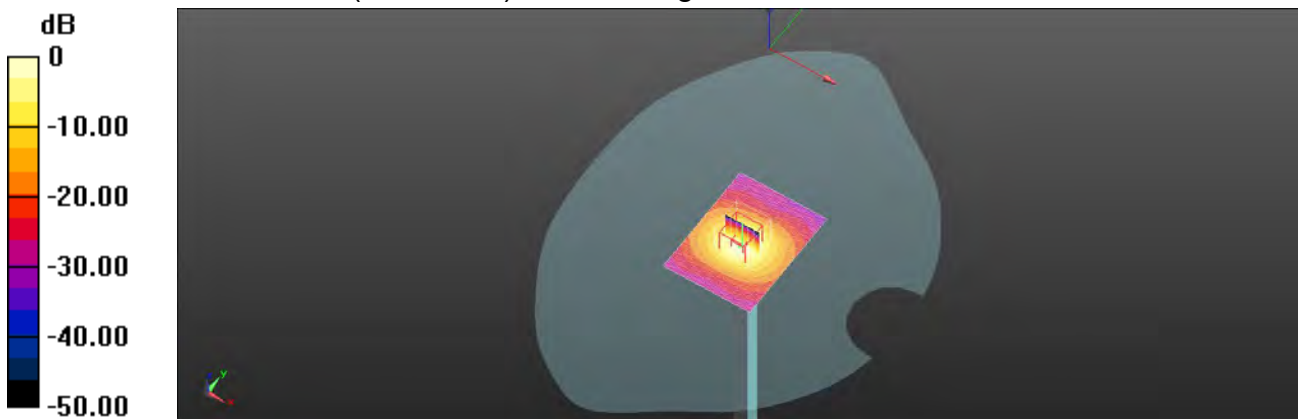
Peak SAR (extrapolated) = 24.3 W/kg

SAR(1 g) = 8.39 W/kg ; SAR(10 g) = 2.37 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

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

Maximum value of SAR (measured) = 12.4 W/kg



0 dB = $12.4 \text{ W/kg} = 13.11 \text{ dBW/kg}$

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Date: 2020/12/21

Report No. : E5/2020/B0013

Dipole 5600 MHz_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.006$ S/m; $\epsilon_r = 35.173$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(4.98, 4.98, 4.98); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x91x1): 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 = 59.02 V/m; Power Drift = -0.01 dB

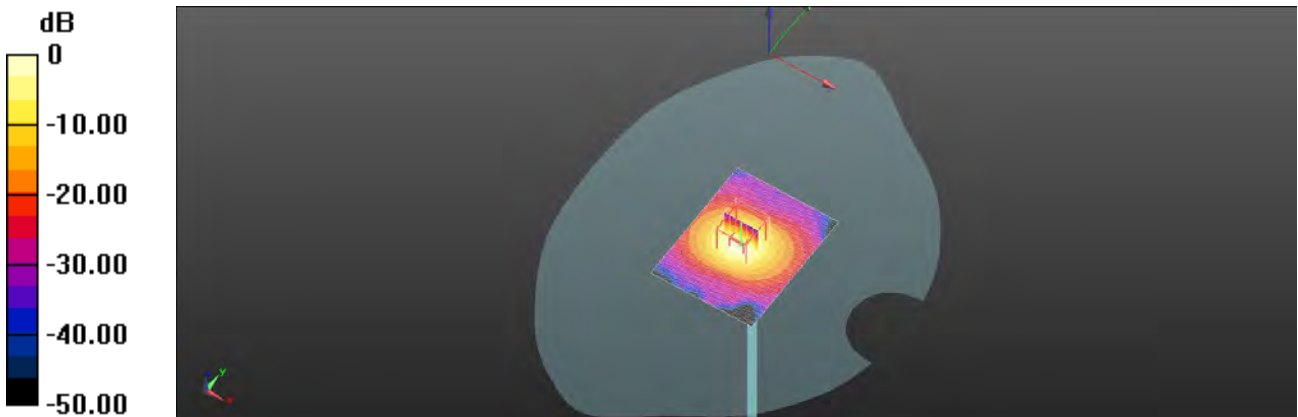
Peak SAR (extrapolated) = 29.3 W/kg

SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.41 W/kg

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

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

Maximum value of SAR (measured) = 15.5 W/kg



0 dB = 15.5 W/kg = 12.78 dBW/kg

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Date: 2020/12/21

Report No. : E5/2020/B0013

Dipole 5800 MHz_SN:1023

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.208 \text{ S/m}$; $\epsilon_r = 34.947$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(5.04, 5.04, 5.04); Calibrated: 2020/2/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2020/8/13
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x91x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 13.1 W/kg

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

Reference Value = 58.56 V/m ; Power Drift = 0.03 dB

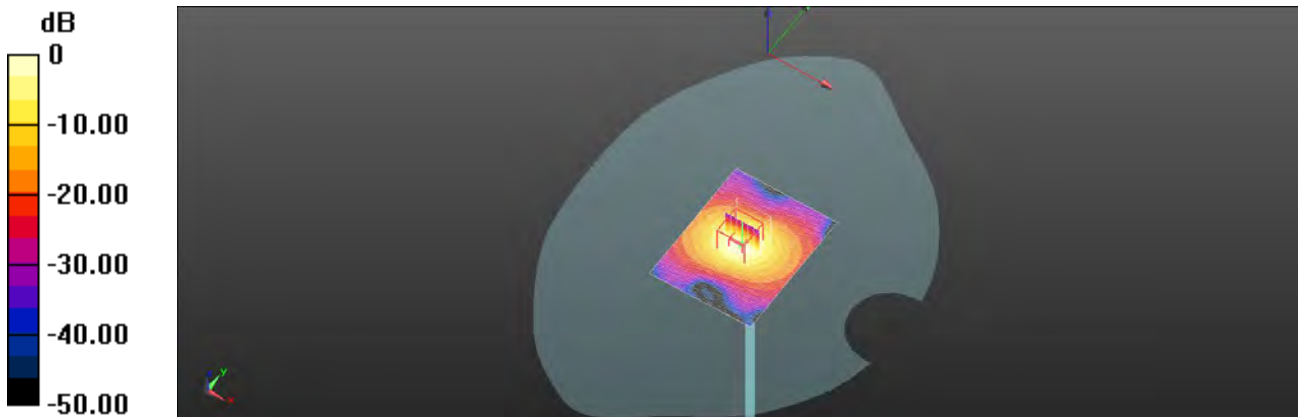
Peak SAR (extrapolated) = 22.6 W/kg

SAR(1 g) = 8.07 W/kg ; SAR(10 g) = 2.32 W/kg

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

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

Maximum value of SAR (measured) = 12.4 W/kg



0 dB = $12.4 \text{ W/kg} = 12.24 \text{ dBW/kg}$

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7. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√ 3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√ 3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√ 3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√ 3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√ 3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√ 3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√ 3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√ 3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	√ 3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√ 3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√ 3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom 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%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√ 3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√ 3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.04%	N	1	1	0.64	0.43	0.67%	0.45%	M
Liquid Conductivity (mea.)	1.25%	N	1	1	0.6	0.49	0.75%	0.61%	M
Combined standard uncertainty		RSS					11.76%	11.73%	
Expant uncertainty (95% confidence interval), K=2							23.52%	23.46%	

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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
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner 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%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.03%	N	1	1	0.64	0.43	0.66%	0.44%	M
Liquid Conductivity (mea.)	1.23%	N	1	1	0.6	0.49	0.74%	0.60%	M
Combined standard uncertainty		RSS					11.46%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.92%	22.87%	

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Appendixes

Refer to separated files for the following appendixes.

E52020B0013 SAR_Appendix A Photographs

E52020B0013 SAR_Appendix B DAE & Probe Cal. Certificate

E52020B0013 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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