

SAR TEST REPORT



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

Equipment Under Test	Phablet
Brand Name	HP
Model No.	HSTNH-F606V
Company Name	HP Inc.
Company Address	3390 East Harmony Road Fort Collins, Colorado 80528 United States
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013, KDB248227D01v02r02, KDB865664D01v01r04, KDB865664D02v01r02, KDB941225D01v03r01, KDB941225D05v02r05, KDB941225D05A v01r02, KDB941225D06v02r01, KDB447498D01v06, KDB648474D01v01r03
Date of Receipt	Apr. 21, 2016
Date of Test(s)	Apr. 27, 2016 ~ Feb. 15, 2017
Date of Issue	Mar. 25, 2017

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**Sr. Engineer****Afu Chen****Date: Mar. 25, 2017****Asst. Supervisor****John Yeh****Date: Mar. 25, 2017**

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Revision History

Report Number	Revision	Description	Issue Date
EN/2017/10007	Rev.00	Initial creation of document	Mar. 08, 2017
EN/2017/10007	Rev.01	1 st modification	Mar. 25, 2017

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	HP Inc.
Company Address	3390 East Harmony Road Fort Collins, Colorado 80528 United States

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1.3 Description of EUT

EUT Name	Phablet	
Brand Name	HP	
Model No.	HSTNH-F606V	
FCC ID	B94HHF606V	
Mode of Operation	☒ GSM ☒ GPRS ☒ EDGE ☒ WCDMA ☒ HSDPA ☒ HSUPA ☒ HSPA+ ☒ LTE FDD ☒ CDMA 1xRTT/ EVDO Rev.0/ Rev. A ☒ WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) ☒ Bluetooth	
Duty Cycle	GSM	1/8.3
	GPRS	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
	EDGE	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
	LTE FDD (data only, not support VoLTE)	1
	WCDMA	1
	CDMA 1xRTT/ EVDO Rev.0/ Rev. A	1
	WLAN802.11 a/b/g/n(20M/40M)/ ac(20M/40M/80M)	1
	Bluetooth	1

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TX Frequency Range (MHz)	GSM850	824	—	849
	GSM1900	1850	—	1910
	WCDMA Band II	1850	—	1910
	WCDMA Band IV	1710	—	1750
	WCDMA Band V	824	—	849
	LTE FDD Band II	1850	—	1910
	LTE FDD Band IV	1710	—	1755
	LTE FDD Band V	824	—	849
	LTE FDD Band VII	2500	—	2570
	LTE FDD Band XII	699	—	716
	LTE FDD Band XIII	777	—	787
	LTE FDD Band XXX	2305	—	2315
	CDMA Cellular (BC0)	824	—	849
	CDMA PCS (BC1)	1850	—	1910
	WLAN802.11 b/g/n(20M)	2412	—	2462
	WLAN802.11 n(40M)	2422	—	2452
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	—	5240
	WLAN802.11 n(40M)/ac(40M) 5.2G	5190	—	5230
	WLAN802.11 ac(80M) 5.2G	5210		
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260	—	5320
	WLAN802.11 n(40M)/ac(40M) 5.3G	5270	—	5310
	WLAN802.11 ac(80M) 5.3G	5290		
	WLAN802.11 a/n/ac(20M) 5.6G	5500	—	5720
	WLAN802.11 n/ac(40M) 5.6G	5510	—	5710
	WLAN802.11 ac(80M) 5.6G	5530	—	5690
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	5745	—	5825
	WLAN802.11 n(40M)/ac(40M) 5.8G	5710	—	5795
	WLAN802.11 ac(80M) 5.8G	5775		
	Bluetooth	2402	—	2480

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Channel Number (ARFCN)	GSM850	128	—	251
	GSM1900	512	—	810
	WCDMA Band II	9262	—	9538
	WCDMA Band IV	1312	—	1513
	WCDMA Band V	4132	—	4233
	LTE FDD Band II	18607	—	19193
	LTE FDD Band IV	19957	—	20393
	LTE FDD Band V	20407	—	20643
	LTE FDD Band VII	20775	—	21425
	LTE FDD Band XII	23007	—	23173
	LTE FDD Band XIII	23205	—	23255
	LTE FDD Band XXX	27685	—	27735
	CDMA Cellular (BC0)	1013	—	777
	CDMA PCS (BC1)	25	—	1175
	WLAN802.11 b/g/n(20M)	1	—	11
	WLAN802.11 n(40M)	3	—	9
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	36	—	48
	WLAN802.11 n(40M)/ac(40M) 5.2G	38	—	46
	WLAN802.11 ac(80M) 5.2G	42		
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	52	—	64
	WLAN802.11 n(40M)/ac(40M) 5.3G	54	—	62
	WLAN802.11 ac(80M) 5.3G	58		
	WLAN802.11 a/n/ac(20M) 5.6G	100	—	144
	WLAN802.11 n/ac(40M) 5.6G	102	—	142
	WLAN802.11 ac(80M) 5.6G	106	—	138
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	149	—	165
	WLAN802.11 n(40M)/ac(40M) 5.8G	142	—	159
	WLAN802.11 ac(80M) 5.8G	155		
	Bluetooth	0	—	78

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Max. SAR (1 g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Head	GSM 850	0.237	0.360	☐ Left ☒ Right ☒ Cheek ☐ Tilt 190 Channel
	GSM 1900	0.336	0.397	☐ Left ☒ Right ☒ Cheek ☐ Tilt 810 Channel
	WCDMA Band II	0.626	0.701	☐ Left ☒ Right ☒ Cheek ☐ Tilt 9538 Channel
	WCDMA Band IV	0.613	0.724	☐ Left ☒ Right ☒ Cheek ☐ Tilt 1513 Channel
	WCDMA Band V	0.311	0.360	☐ Left ☒ Right ☒ Cheek ☐ Tilt 4183 Channel
	CDMA Cellular BC0	0.343	0.446	☐ Left ☒ Right ☒ Cheek ☐ Tilt 384 Channel
	CDMA PCS (BC1)	0.702	0.780	☐ Left ☒ Right ☒ Cheek ☐ Tilt 600 Channel
	WLAN802.11 b	0.802	0.975	☐ Left ☒ Right ☒ Cheek ☐ Tilt 6 Channel
	WLAN802.11 a 5.2G	1.290	1.332	☐ Left ☒ Right ☒ Cheek ☐ Tilt 36 Channel
	WLAN802.11 n(20M) 5.2G	0.970	0.997	☐ Left ☒ Right ☒ Cheek ☐ Tilt 44 Channel
	WLAN802.11 n(40M) 5.2G	1.200	1.271	☐ Left ☒ Right ☒ Cheek ☐ Tilt 46 Channel
	WLAN802.11 ac(40M) 5.2G	0.924	1.091	☐ Left ☒ Right ☒ Cheek ☐ Tilt 46 Channel

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Max. SAR (1 g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Head	WLAN802.11 a 5.3G	1.300	1.340	☐ Left ☒ Right ☒ Cheek ☐ Tilt 56 Channel
	WLAN802.11 n(20M) 5.3G	0.993	1.062	☐ Left ☒ Right ☒ Cheek ☐ Tilt 52 Channel
	WLAN802.11 n(40M) 5.3G	1.030	1.261	☐ Left ☒ Right ☒ Cheek ☐ Tilt 62 Channel
	WLAN802.11 ac(40M) 5.3G	1.020	1.238	☐ Left ☒ Right ☒ Cheek ☐ Tilt 62 Channel
	WLAN802.11 a 5.6G	1.180	1.241	☐ Left ☒ Right ☒ Cheek ☐ Tilt 120 Channel
	WLAN802.11 n(20M) 5.6G	0.819	0.862	☐ Left ☒ Right ☒ Cheek ☐ Tilt 100 Channel
	WLAN802.11 ac(80M) 5.6G	0.872	0.930	☐ Left ☒ Right ☒ Cheek ☐ Tilt 122 Channel
	WLAN802.11 a 5.8G	0.916	0.975	☐ Left ☒ Right ☒ Cheek ☐ Tilt 165 Channel

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Max. SAR (1 g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Body-worn	GSM 850	0.369	0.560	☐ Front 190 ☒ Back Channel
	GSM 1900	0.457	0.602	☐ Front 512 ☒ Back Channel
	CDMA Cellular BC0	0.852	1.187	☒ Front 777 ☐ Back Channel
	CDMA PCS (BC1)	1.020	1.124	☒ Front 600 ☐ Back Channel
	WLAN802.11 n(40M) 5.2G	0.279	0.290	☐ Front 38 ☒ Back Channel
	WLAN802.11 n(40M) 5.3G	0.539	0.541	☐ Front 62 ☒ Back Channel
	WLAN802.11 a 5.6G	0.740	0.782	☐ Front 140 ☒ Back Channel
	WLAN802.11 ac(80M) 5.6G	0.769	0.783	☐ Front 122 ☒ Back Channel
	WLAN802.11 a 5.8G	0.543	0.578	☐ Front 149 ☒ Back Channel

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Max. SAR (1 g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Hotspot mode	GPRS 850 (1Dn4UP)	0.505	0.614	☒ Front ☐ Back ☐ Bottom ☐ Right ☐ Left <u>251</u> Channel
	GPRS 1900 (1Dn3UP)	0.582	0.693	☐ Front ☒ Back ☐ Bottom ☐ Right ☐ Left <u>810</u> Channel
	CDMA Cellular BC0	0.778	1.067	☒ Front ☒ Back ☐ Bottom ☐ Right ☐ Left <u>777</u> Channel
	CDMA PCS (BC1)	0.951	1.065	☒ Front ☐ Back ☐ Bottom ☐ Right ☐ Left <u>600</u> Channel
	WCDMA Band II	0.913	1.041	☐ Front ☒ Back ☐ Bottom ☐ Right ☐ Left <u>9400</u> Channel
	WCDMA Band IV	0.770	0.917	☐ Front ☒ Back ☐ Bottom ☐ Right ☐ Left <u>1412</u> Channel
	WCDMA Band V	0.583	0.638	☒ Front ☐ Back ☐ Bottom ☐ Right ☐ Left <u>4233</u> Channel
	LTE FDD Band II	0.848	0.928	☒ Front ☐ Back ☐ Bottom ☐ Right ☐ Left <u>19100</u> Channel
	LTE FDD Band IV	1.010	1.120	☐ Front ☒ Back ☐ Bottom ☐ Right ☐ Left <u>20050</u> Channel

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Max. SAR (1 g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Hotspot mode	LTE FDD Band V	0.500	0.650	☒ Front ☐ Back ☐ Bottom ☐ Right ☐ Left 20525 Channel
	LTE FDD Band VII	0.969	1.045	☒ Front ☐ Back ☐ Bottom ☐ Right ☐ Left 20850 Channel
	LTE FDD Band XII	0.242	0.272	☐ Front ☐ Back ☒ Bottom ☐ Right ☐ Left 23130 Channel
	LTE FDD Band XIII	0.554	0.746	☒ Front ☐ Back ☐ Bottom ☐ Right ☐ Left 23230 Channel
	LTE FDD Band XXX	0.746	0.924	☒ Front ☐ Back ☐ Bottom ☐ Right ☐ Left 27710 Channel
	WLAN802.11 b	0.315	0.383	☐ Front ☒ Back ☐ Bottom ☐ Right ☐ Left 6 Channel
	Bluetooth	0.012	0.019	☐ Front ☒ Back ☐ Bottom ☐ Right ☐ Left 39 Channel

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Max. SAR (10 g) (Unit: W/Kg)				
Mode	Band	Measured	Reported	Position / Channel
Product specific 10-g SAR	WLAN802.11 n(40M) 5.2G	1.100	1.214	☒ Front ☐ Back ☐ Top ☐ Right ☐ Left 38 Channel
	WLAN802.11 n(40M) 5.3G	1.080	1.310	☒ Front ☐ Back ☐ Top ☐ Right ☐ Left 54 Channel
	WLAN802.11 a 5.6G	2.260	2.388	☐ Front ☐ Back ☐ Top ☒ Right ☐ Left 140 Channel
	WLAN802.11 ac(80M) 5.6G	2.090	2.173	☐ Front ☐ Back ☐ Top ☒ Right ☐ Left 138 Channel
	WLAN802.11 a 5.8G	1.590	1.692	☐ Front ☐ Back ☐ Top ☒ Right ☐ Left 149 Channel

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Difference description

The differences between HSTNH-F606V and HSTNH-F606 are described as below. The differences between HSTNH-F606V and HSTNH-F606 are showing in the following table. The only change is open CDMA and LTE B13 for H/W change.

	HSTNH-F606V	HSTNH-F606
GSM bands	850/1900	850/1900
CDMA bands	BC0/BC1	N/A
WCDMA bands	B2/B4/B5	B2 B4/B5
LTE bands	B2/B4/B5/B7/B12/B13/ B30	B2/B4/B5/B7/B12/B17/ B29/B30
2DL CA configuration	CA_2A-4A, CA_2A-5A, CA_2A-13A, CA_4A-5A, CA-4A_13A, CA_2C, CA_2A-2A, CA_4A-4A	CA_2A-12A, CA_2A-17A, CA_2A-29A, CA_4A-7A, CA_4A-12A, CA_4A-17A, CA_4A-29A

According to the difference description above, for the same frequency bands(GSM850/1900, UMTS Band 2/4/5, LTE Band 2/4/5/7/12/30 and WiFi 2.4G/5G), HSTNH-F606V SAR is tested at the worst case of HSTNH-F606(FCC ID: B94HHF606). For the new bands (CDMA BC0/BC1, LTE Band 13), new full SAR test is performed on HSTNH-F606V.

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GSM/GPRS/EDGE 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)
GSM850 (GMSK)	824.2	128	33.5	31.62	22.59
	836.6	190	33.5	31.69	22.66
	848.8	251	33.5	31.72	22.69
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	30.5	28.5	27.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850	824.2	128	31.62	29.01	27.38	26.59
	836.6	190	31.69	29.04	27.40	26.66
	848.8	251	31.72	29.12	27.41	26.65
Source-based time average power						
GPRS 850	824.2	128	22.59	22.99	23.12	23.58
	836.6	190	22.66	23.02	23.14	23.65
	848.8	251	22.69	23.10	23.15	23.64
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	27	27	27
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS5)	824.2	128	25.69	25.35	25.34	25.31
	836.6	190	25.76	25.27	25.32	25.21
	848.8	251	25.66	25.43	25.40	25.28
Source-based time average power						
EDGE 850 (MCS5)	824.2	128	16.66	19.33	21.08	22.30
	836.6	190	16.73	19.25	21.06	22.20
	848.8	251	16.63	19.41	21.14	22.27
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

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	29.30	20.27
	1800	661	30.5	29.53	20.50
	1909.8	810	30.5	29.78	20.75
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	26.5	25
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900	1850.2	512	29.30	26.26	25.73	24.03
	1880	661	29.53	26.35	25.22	23.96
	1909.8	810	29.78	26.52	25.74	24.07
Source-based time average power						
GPRS 1900	1850.2	512	20.27	20.24	21.47	21.02
	1880	661	20.50	20.33	20.96	20.95
	1909.8	810	20.75	20.50	21.48	21.06
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			25	25	25	25
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS5)	1850.2	512	24.72	24.86	24.38	24.31
	1880	661	24.75	24.77	24.32	24.09
	1909.8	810	24.82	24.81	24.45	24.41
Source-based time average power						
EDGE 1900 (MCS5)	1850.2	512	15.69	18.84	20.12	21.30
	1880	661	15.72	18.75	20.06	21.08
	1909.8	810	15.79	18.79	20.19	21.40
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 II / Band IV / Band V - HSDPA / HSUPA conducted power table:

Band	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Rel99 AV(dBm)	HSDPA mode AV(dBm)				HSUPA mode AV(dBm)					HSPA+ mode AV(dBm)
				SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-1
WCDMA Band II	9262	24	23.45	22.35	22.33	21.87	21.94	21.41	21.47	21.95	21.52	22.31	21.72
	9400	24	23.43	22.34	22.29	21.89	21.9	21.36	21.44	21.92	21.50	22.30	21.76
	9538	24	23.51	22.39	22.36	21.86	21.98	21.43	21.47	22.01	21.55	22.38	22.09
WCDMA Band IV	1312	24	23.49	22.32	22.29	21.84	21.91	21.45	21.51	21.99	21.56	22.29	21.76
	1412	24	23.24	22.21	22.10	21.76	21.77	21.98	21.25	21.73	21.31	22.21	21.57
	1513	24	23.28	22.22	22.13	21.69	21.81	21.50	21.24	21.78	21.32	22.17	21.86
WCDMA Band V	4132	24.5	24.05	22.98	22.84	22.52	22.57	22.70	22.07	22.55	22.12	22.86	22.32
	4183	24.5	23.87	22.82	22.76	22.34	22.38	22.64	21.88	22.36	21.94	22.81	22.20
	4233	24.5	24.11	23.06	22.98	22.57	22.63	22.86	22.07	22.61	22.15	23.01	22.69

Subtest for HSDPA

SUB-TEST	β_c	β_d	β_d (SF)	β_o/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

Subtest for HSUPA

SUB-TEST	β_c	β_d	β_d (SF)	β_o/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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CDMA/EVDO conducted power table:

Band	Channel	Frequency (MHz)	Target Power + Max. Tolerance (dBm)	1xRTT				EVDO	
				SO55	SO55	TDSO/SO32	TDSO/SO32	1x EvDO Rev. 0, FTAP/RTAP	1x EvDO Rev. A, FETAP/RETAP
				RC1	RC3	FCH+SCH	FCH	Subtype 0/1	Subtype 2
Cellular (BC0)	1013	824.7	24.5	23.37	23.33	23.37	23.31	23.32	23.33
	384	836.52	24.5	23.46	23.36	23.32	23.29	23.31	23.28
	777	848.31	24.5	23.26	23.19	23.10	23.06	23.13	23.14
PCS (BC1)	25	1851.25	24	23.41	23.41	23.46	23.43	23.39	23.41
	600	1880	24	23.64	23.58	23.59	23.54	23.51	23.54
	1175	1908.75	24	23.44	23.43	23.50	23.47	23.43	23.42

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LTE FDD Band II / Band IV / Band V / Band VII / Band XII / Band XIII / Band XXX power table:

FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	1860	18700	23.89	24	0	
				1880	18900	23.69	24	0	
				1900	19100	23.61	24	0	
			50	1860	18700	22.82	24	0	
				1880	18900	22.77	24	0	
				1900	19100	22.83	24	0	
				99	1860	18700	23.30	24	0
					1880	18900	23.14	24	0
					1900	19100	23.26	24	0
		50 RB	0	1860	18700	22.20	23	0-1	
				1880	18900	22.29	23	0-1	
				1900	19100	22.28	23	0-1	
			25	1860	18700	22.07	23	0-1	
				1880	18900	21.88	23	0-1	
				1900	19100	21.99	23	0-1	
			50	1860	18700	21.95	23	0-1	
				1880	18900	22.13	23	0-1	
				1900	19100	22.08	23	0-1	
		100RB			1860	18700	22.24	23	0-1
					1880	18900	22.21	23	0-1
					1900	19100	22.20	23	0-1
	16-QAM	1 RB	0	1860	18700	22.91	23	0-1	
				1880	18900	22.90	23	0-1	
				1900	19100	22.93	23	0-1	
			50	1860	18700	22.16	23	0-1	
				1880	18900	21.99	23	0-1	
				1900	19100	21.98	23	0-1	
			99	1860	18700	22.56	23	0-1	
				1880	18900	22.31	23	0-1	
				1900	19100	22.03	23	0-1	
			50 RB	0	1860	18700	21.28	22	0-2
					1880	18900	21.34	22	0-2
					1900	19100	21.23	22	0-2
				25	1860	18700	21.01	22	0-2
					1880	18900	20.98	22	0-2
					1900	19100	21.06	22	0-2
		50	1860	18700	21.00	22	0-2		
			1880	18900	21.11	22	0-2		
			1900	19100	21.00	22	0-2		
		100RB			1860	18700	21.17	22	0-2
					1880	18900	21.24	22	0-2
					1900	19100	21.22	22	0-2

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
15	QPSK	1 RB	0	1857.5	18675	23.48	24	0	
				1880	18900	23.57	24	0	
				1902.5	19125	23.54	24	0	
			36	1857.5	18675	22.77	24	0	
				1880	18900	22.67	24	0	
				1902.5	19125	22.43	24	0	
			74	1857.5	18675	22.92	24	0	
				1880	18900	23.03	24	0	
				1902.5	19125	22.97	24	0	
		36 RB	0	1857.5	18675	21.99	23	0-1	
				1880	18900	22.15	23	0-1	
				1902.5	19125	21.91	23	0-1	
			18	1857.5	18675	21.86	23	0-1	
				1880	18900	22.07	23	0-1	
				1902.5	19125	21.86	23	0-1	
			37	1857.5	18675	21.79	23	0-1	
				1880	18900	21.94	23	0-1	
				1902.5	19125	21.86	23	0-1	
		75RB			1857.5	18675	22.04	23	0-1
					1880	18900	21.99	23	0-1
					1902.5	19125	21.95	23	0-1
	16-QAM	1 RB	0	1857.5	18675	22.58	23	0-1	
				1880	18900	22.69	23	0-1	
				1902.5	19125	22.96	23	0-1	
			36	1857.5	18675	21.76	23	0-1	
				1880	18900	21.85	23	0-1	
				1902.5	19125	22.00	23	0-1	
			74	1857.5	18675	22.56	23	0-1	
				1880	18900	21.88	23	0-1	
				1902.5	19125	22.37	23	0-1	
		36 RB	0	1857.5	18675	20.90	22	0-2	
				1880	18900	21.00	22	0-2	
				1902.5	19125	20.81	22	0-2	
			18	1857.5	18675	20.97	22	0-2	
				1880	18900	21.09	22	0-2	
				1902.5	19125	20.76	22	0-2	
			37	1857.5	18675	20.87	22	0-2	
				1880	18900	21.01	22	0-2	
				1902.5	19125	20.78	22	0-2	
		75RB			1857.5	18675	20.91	22	0-2
					1880	18900	20.98	22	0-2
					1902.5	19125	21.01	22	0-2

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	1855	18650	22.69	24	0	
				1880	18900	23.09	24	0	
				1905	19150	23.03	24	0	
			25	1855	18650	22.68	24	0	
				1880	18900	22.68	24	0	
				1905	19150	22.74	24	0	
			49	1855	18650	22.58	24	0	
				1880	18900	22.74	24	0	
				1905	19150	22.70	24	0	
		25 RB	0	1855	18650	21.93	23	0-1	
				1880	18900	21.89	23	0-1	
				1905	19150	21.94	23	0-1	
			12	1855	18650	21.76	23	0-1	
				1880	18900	21.86	23	0-1	
				1905	19150	21.72	23	0-1	
			25	1855	18650	21.75	23	0-1	
				1880	18900	21.85	23	0-1	
				1905	19150	21.79	23	0-1	
		50RB			1855	18650	21.84	23	0-1
					1880	18900	21.79	23	0-1
					1905	19150	21.82	23	0-1
	16-QAM	1 RB	0	1855	18650	22.60	23	0-1	
				1880	18900	22.37	23	0-1	
				1905	19150	22.52	23	0-1	
			25	1855	18650	21.95	23	0-1	
				1880	18900	21.86	23	0-1	
				1905	19150	22.01	23	0-1	
			49	1855	18650	21.93	23	0-1	
				1880	18900	21.92	23	0-1	
				1905	19150	21.83	23	0-1	
		25 RB	0	1855	18650	20.97	22	0-2	
				1880	18900	20.96	22	0-2	
				1905	19150	21.14	22	0-2	
			12	1855	18650	20.84	22	0-2	
				1880	18900	20.97	22	0-2	
				1905	19150	20.82	22	0-2	
			25	1855	18650	20.67	22	0-2	
				1880	18900	20.96	22	0-2	
				1905	19150	20.87	22	0-2	
		50RB			1855	18650	20.80	22	0-2
					1880	18900	20.83	22	0-2
					1905	19150	20.83	22	0-2

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FDD Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1852.5	18625	22.59	24	0
				1880	18900	22.83	24	0
				1907.5	19175	22.62	24	0
			12	1852.5	18625	22.47	24	0
				1880	18900	22.72	24	0
				1907.5	19175	22.51	24	0
			24	1852.5	18625	22.76	24	0
				1880	18900	22.66	24	0
				1907.5	19175	22.64	24	0
		12 RB	0	1852.5	18625	21.65	23	0-1
				1880	18900	21.86	23	0-1
				1907.5	19175	21.72	23	0-1
			6	1852.5	18625	21.72	23	0-1
				1880	18900	21.67	23	0-1
				1907.5	19175	21.68	23	0-1
			13	1852.5	18625	21.82	23	0-1
				1880	18900	21.67	23	0-1
				1907.5	19175	21.69	23	0-1
		25RB		1852.5	18625	21.67	23	0-1
				1880	18900	21.63	23	0-1
				1907.5	19175	21.61	23	0-1
	16-QAM	1 RB	0	1852.5	18625	21.61	23	0-1
				1880	18900	22.01	23	0-1
				1907.5	19175	22.03	23	0-1
			12	1852.5	18625	22.06	23	0-1
				1880	18900	22.13	23	0-1
				1907.5	19175	22.22	23	0-1
			24	1852.5	18625	22.06	23	0-1
				1880	18900	21.92	23	0-1
				1907.5	19175	21.45	23	0-1
		12 RB	0	1852.5	18625	20.85	22	0-2
				1880	18900	20.86	22	0-2
				1907.5	19175	20.76	22	0-2
			6	1852.5	18625	20.78	22	0-2
				1880	18900	20.87	22	0-2
				1907.5	19175	20.75	22	0-2
			13	1852.5	18625	20.85	22	0-2
				1880	18900	20.83	22	0-2
				1907.5	19175	20.73	22	0-2
		25RB		1852.5	18625	20.58	22	0-2
				1880	18900	20.75	22	0-2
				1907.5	19175	20.75	22	0-2

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FDD Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1851.5	18615	22.45	24	0
				1880	18900	22.54	24	0
				1908.5	19185	22.63	24	0
			7	1851.5	18615	22.53	24	0
				1880	18900	22.64	24	0
				1908.5	19185	22.76	24	0
			14	1851.5	18615	22.39	24	0
				1880	18900	22.49	24	0
				1908.5	19185	22.65	24	0
		8 RB	0	1851.5	18615	21.62	23	0-1
				1880	18900	21.71	23	0-1
				1908.5	19185	21.74	23	0-1
			4	1851.5	18615	21.72	23	0-1
				1880	18900	21.85	23	0-1
				1908.5	19185	21.71	23	0-1
			7	1851.5	18615	21.67	23	0-1
				1880	18900	21.72	23	0-1
				1908.5	19185	21.72	23	0-1
		15RB		1851.5	18615	21.63	23	0-1
				1880	18900	21.77	23	0-1
				1908.5	19185	21.66	23	0-1
	16-QAM	1 RB	0	1851.5	18615	22.04	23	0-1
				1880	18900	22.05	23	0-1
				1908.5	19185	22.07	23	0-1
			7	1851.5	18615	21.53	23	0-1
				1880	18900	22.10	23	0-1
				1908.5	19185	21.82	23	0-1
			14	1851.5	18615	21.64	23	0-1
				1880	18900	21.83	23	0-1
				1908.5	19185	21.88	23	0-1
		8 RB	0	1851.5	18615	20.82	22	0-2
				1880	18900	20.82	22	0-2
				1908.5	19185	20.82	22	0-2
			4	1851.5	18615	20.93	22	0-2
				1880	18900	20.72	22	0-2
				1908.5	19185	20.94	22	0-2
			7	1851.5	18615	20.80	22	0-2
				1880	18900	20.91	22	0-2
				1908.5	19185	20.77	22	0-2
		15RB		1851.5	18615	20.71	22	0-2
				1880	18900	20.74	22	0-2
				1908.5	19185	20.77	22	0-2

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FDD Band 2									
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1.4	QPSK	1 RB	0	1850.7	18607	22.47	24	0	
				1880	18900	22.54	24	0	
				1909.3	19193	22.61	24	0	
			2	1850.7	18607	22.57	24	0	
				1880	18900	22.62	24	0	
				1909.3	19193	22.66	24	0	
			5	1850.7	18607	22.45	24	0	
				1880	18900	22.52	24	0	
				1909.3	19193	22.57	24	0	
		3 RB	0	1850.7	18607	22.53	24	0	
				1880	18900	22.60	24	0	
				1909.3	19193	22.67	24	0	
			2	1850.7	18607	22.63	24	0	
				1880	18900	22.64	24	0	
				1909.3	19193	22.68	24	0	
			3	1850.7	18607	22.62	24	0	
				1880	18900	22.64	24	0	
				1909.3	19193	22.58	24	0	
		6RB			1850.7	18607	21.61	23	0-1
					1880	18900	21.74	23	0-1
					1909.3	19193	21.71	23	0-1
	16-QAM	1 RB	0	1850.7	18607	22.06	23	0-1	
				1880	18900	22.20	23	0-1	
				1909.3	19193	21.90	23	0-1	
			2	1850.7	18607	22.05	23	0-1	
				1880	18900	21.65	23	0-1	
				1909.3	19193	22.15	23	0-1	
			5	1850.7	18607	22.07	23	0-1	
				1880	18900	21.72	23	0-1	
				1909.3	19193	21.51	23	0-1	
		3 RB	0	1850.7	18607	21.68	23	0-1	
				1880	18900	21.75	23	0-1	
				1909.3	19193	21.71	23	0-1	
			2	1850.7	18607	21.74	23	0-1	
				1880	18900	21.67	23	0-1	
				1909.3	19193	21.73	23	0-1	
			3	1850.7	18607	21.48	23	0-1	
				1880	18900	21.64	23	0-1	
				1909.3	19193	21.70	23	0-1	
		6RB			1850.7	18607	20.76	22	0-2
					1880	18900	20.72	22	0-2
					1909.3	19193	20.78	22	0-2

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	1720	20050	23.55	24	0	
				1732.5	20175	23.33	24	0	
				1745	20300	23.21	24	0	
			50	1720	20050	22.34	24	0	
				1732.5	20175	22.14	24	0	
				1745	20300	22.00	24	0	
			99	1720	20050	22.75	24	0	
				1732.5	20175	22.41	24	0	
				1745	20300	22.28	24	0	
		50 RB	0	1720	20050	21.90	23	0-1	
				1732.5	20175	21.88	23	0-1	
				1745	20300	21.74	23	0-1	
			25	1720	20050	21.51	23	0-1	
				1732.5	20175	21.37	23	0-1	
				1745	20300	21.32	23	0-1	
			50	1720	20050	21.65	23	0-1	
				1732.5	20175	21.52	23	0-1	
				1745	20300	21.26	23	0-1	
		100RB			1720	20050	21.76	23	0-1
					1732.5	20175	21.61	23	0-1
					1745	20300	21.63	23	0-1
	16-QAM	1 RB	0	1720	20050	22.39	23	0-1	
				1732.5	20175	22.42	23	0-1	
				1745	20300	22.33	23	0-1	
			50	1720	20050	21.28	23	0-1	
				1732.5	20175	21.45	23	0-1	
				1745	20300	21.66	23	0-1	
			99	1720	20050	21.84	23	0-1	
				1732.5	20175	22.09	23	0-1	
				1745	20300	21.73	23	0-1	
		50 RB	0	1720	20050	20.92	22	0-2	
				1732.5	20175	20.78	22	0-2	
				1745	20300	20.76	22	0-2	
			25	1720	20050	20.60	22	0-2	
				1732.5	20175	20.43	22	0-2	
				1745	20300	20.36	22	0-2	
			50	1720	20050	20.58	22	0-2	
				1732.5	20175	20.63	22	0-2	
				1745	20300	20.26	22	0-2	
		100RB			1720	20050	20.74	22	0-2
					1732.5	20175	20.64	22	0-2
					1745	20300	20.73	22	0-2

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1717.5	20025	22.82	24	0
				1732.5	20175	22.99	24	0
				1747.5	20325	22.83	24	0
			36	1717.5	20025	22.31	24	0
				1732.5	20175	22.20	24	0
				1747.5	20325	22.31	24	0
			74	1717.5	20025	22.68	24	0
				1732.5	20175	22.35	24	0
				1747.5	20325	22.29	24	0
		36 RB	0	1717.5	20025	21.71	23	0-1
				1732.5	20175	21.76	23	0-1
				1747.5	20325	21.55	23	0-1
			18	1717.5	20025	21.44	23	0-1
				1732.5	20175	21.36	23	0-1
				1747.5	20325	21.20	23	0-1
			37	1717.5	20025	21.51	23	0-1
				1732.5	20175	21.29	23	0-1
				1747.5	20325	21.27	23	0-1
			75RB	1717.5	20025	21.50	23	0-1
				1732.5	20175	21.56	23	0-1
				1747.5	20325	21.37	23	0-1
	16-QAM	1 RB	0	1717.5	20025	22.08	23	0-1
				1732.5	20175	22.18	23	0-1
				1747.5	20325	22.01	23	0-1
			36	1717.5	20025	21.70	23	0-1
				1732.5	20175	21.39	23	0-1
				1747.5	20325	21.24	23	0-1
			74	1717.5	20025	22.13	23	0-1
				1732.5	20175	22.07	23	0-1
				1747.5	20325	21.20	23	0-1
		36 RB	0	1717.5	20025	20.72	22	0-2
				1732.5	20175	20.82	22	0-2
				1747.5	20325	20.54	22	0-2
			18	1717.5	20025	20.51	22	0-2
				1732.5	20175	20.39	22	0-2
				1747.5	20325	20.24	22	0-2
			37	1717.5	20025	20.45	22	0-2
				1732.5	20175	20.45	22	0-2
				1747.5	20325	20.20	22	0-2
			75RB	1717.5	20025	20.56	22	0-2
				1732.5	20175	20.40	22	0-2
				1747.5	20325	20.34	22	0-2

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1715	20000	22.43	24	0
				1732.5	20175	22.50	24	0
				1750	20350	22.58	24	0
			25	1715	20000	22.30	24	0
				1732.5	20175	22.12	24	0
				1750	20350	22.13	24	0
			49	1715	20000	22.02	24	0
				1732.5	20175	22.19	24	0
				1750	20350	22.13	24	0
		25 RB	0	1715	20000	21.61	23	0-1
				1732.5	20175	21.38	23	0-1
				1750	20350	21.28	23	0-1
			12	1715	20000	21.55	23	0-1
				1732.5	20175	21.35	23	0-1
				1750	20350	21.17	23	0-1
			25	1715	20000	21.36	23	0-1
				1732.5	20175	21.25	23	0-1
				1750	20350	21.15	23	0-1
		50RB		1715	20000	21.50	23	0-1
				1732.5	20175	21.30	23	0-1
				1750	20350	21.28	23	0-1
	16-QAM	1 RB	0	1715	20000	22.17	23	0-1
				1732.5	20175	21.83	23	0-1
				1750	20350	21.79	23	0-1
			25	1715	20000	21.51	23	0-1
				1732.5	20175	21.10	23	0-1
				1750	20350	21.02	23	0-1
			49	1715	20000	21.51	23	0-1
				1732.5	20175	21.64	23	0-1
				1750	20350	21.62	23	0-1
		25 RB	0	1715	20000	20.59	22	0-2
				1732.5	20175	20.39	22	0-2
				1750	20350	20.33	22	0-2
			12	1715	20000	20.63	22	0-2
				1732.5	20175	20.28	22	0-2
				1750	20350	20.10	22	0-2
			25	1715	20000	20.53	22	0-2
				1732.5	20175	20.45	22	0-2
				1750	20350	20.17	22	0-2
		50RB		1715	20000	20.47	22	0-2
				1732.5	20175	20.26	22	0-2
				1750	20350	20.17	22	0-2

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1712.5	19975	22.19	24	0
				1732.5	20175	22.29	24	0
				1752.5	20375	22.15	24	0
			12	1712.5	19975	22.22	24	0
				1732.5	20175	22.12	24	0
				1752.5	20375	22.17	24	0
			24	1712.5	19975	22.32	24	0
				1732.5	20175	22.04	24	0
				1752.5	20375	22.15	24	0
		12 RB	0	1712.5	19975	21.53	23	0-1
				1732.5	20175	21.28	23	0-1
				1752.5	20375	21.19	23	0-1
			6	1712.5	19975	21.46	23	0-1
				1732.5	20175	21.27	23	0-1
				1752.5	20375	21.21	23	0-1
			13	1712.5	19975	21.41	23	0-1
				1732.5	20175	21.26	23	0-1
				1752.5	20375	21.13	23	0-1
			25RB	1712.5	19975	21.42	23	0-1
				1732.5	20175	21.33	23	0-1
				1752.5	20375	21.12	23	0-1
	16-QAM	1 RB	0	1712.5	19975	21.74	23	0-1
				1732.5	20175	21.18	23	0-1
				1752.5	20375	21.28	23	0-1
			12	1712.5	19975	21.69	23	0-1
				1732.5	20175	21.66	23	0-1
				1752.5	20375	21.78	23	0-1
			24	1712.5	19975	21.17	23	0-1
				1732.5	20175	21.34	23	0-1
				1752.5	20375	21.23	23	0-1
		12 RB	0	1712.5	19975	20.56	22	0-2
				1732.5	20175	20.40	22	0-2
				1752.5	20375	20.31	22	0-2
			6	1712.5	19975	20.50	22	0-2
				1732.5	20175	20.21	22	0-2
				1752.5	20375	20.27	22	0-2
			13	1712.5	19975	20.49	22	0-2
				1732.5	20175	20.22	22	0-2
				1752.5	20375	20.10	22	0-2
			25RB	1712.5	19975	20.42	22	0-2
				1732.5	20175	20.21	22	0-2
				1752.5	20375	20.31	22	0-2

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1711.5	19965	22.33	24	0
				1732.5	20175	22.15	24	0
				1753.5	20385	22.28	24	0
			7	1711.5	19965	22.41	24	0
				1732.5	20175	22.29	24	0
				1753.5	20385	22.21	24	0
			14	1711.5	19965	22.23	24	0
				1732.5	20175	22.02	24	0
				1753.5	20385	22.01	24	0
		8 RB	0	1711.5	19965	21.43	23	0-1
				1732.5	20175	21.25	23	0-1
				1753.5	20385	21.09	23	0-1
			4	1711.5	19965	21.58	23	0-1
				1732.5	20175	21.24	23	0-1
				1753.5	20385	21.12	23	0-1
			7	1711.5	19965	21.43	23	0-1
				1732.5	20175	21.29	23	0-1
				1753.5	20385	21.07	23	0-1
		15RB		1711.5	19965	21.47	23	0-1
				1732.5	20175	21.34	23	0-1
				1753.5	20385	21.10	23	0-1
	16-QAM	1 RB	0	1711.5	19965	21.95	23	0-1
				1732.5	20175	21.18	23	0-1
				1753.5	20385	21.35	23	0-1
			7	1711.5	19965	21.33	23	0-1
				1732.5	20175	21.49	23	0-1
				1753.5	20385	21.58	23	0-1
			14	1711.5	19965	21.70	23	0-1
				1732.5	20175	21.50	23	0-1
				1753.5	20385	21.00	23	0-1
		8 RB	0	1711.5	19965	20.58	22	0-2
				1732.5	20175	20.38	22	0-2
				1753.5	20385	20.32	22	0-2
			4	1711.5	19965	20.77	22	0-2
				1732.5	20175	20.41	22	0-2
				1753.5	20385	20.07	22	0-2
			7	1711.5	19965	20.52	22	0-2
				1732.5	20175	20.30	22	0-2
				1753.5	20385	20.23	22	0-2
		15RB		1711.5	19965	20.53	22	0-2
				1732.5	20175	20.31	22	0-2
				1753.5	20385	20.12	22	0-2

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FDD Band 4									
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1.4	QPSK	1 RB	0	1710.7	19957	22.08	24	0	
				1732.5	20175	22.12	24	0	
				1754.3	20393	22.03	24	0	
			2	1710.7	19957	22.23	24	0	
				1732.5	20175	22.26	24	0	
				1754.3	20393	22.02	24	0	
			5	1710.7	19957	22.15	24	0	
				1732.5	20175	22.04	24	0	
				1754.3	20393	22.00	24	0	
		3 RB	0	1710.7	19957	22.22	24	0	
				1732.5	20175	22.25	24	0	
				1754.3	20393	22.05	24	0	
			2	1710.7	19957	22.25	24	0	
				1732.5	20175	22.32	24	0	
				1754.3	20393	22.16	24	0	
			3	1710.7	19957	22.30	24	0	
				1732.5	20175	22.06	24	0	
				1754.3	20393	22.10	24	0	
		6RB			1710.7	19957	21.47	23	0-1
					1732.5	20175	21.24	23	0-1
					1754.3	20393	21.12	23	0-1
	16-QAM	1 RB	0	1710.7	19957	21.71	23	0-1	
				1732.5	20175	21.06	23	0-1	
				1754.3	20393	21.13	23	0-1	
			2	1710.7	19957	21.45	23	0-1	
				1732.5	20175	21.54	23	0-1	
				1754.3	20393	21.55	23	0-1	
			5	1710.7	19957	21.82	23	0-1	
				1732.5	20175	21.61	23	0-1	
				1754.3	20393	21.14	23	0-1	
		3 RB	0	1710.7	19957	21.40	23	0-1	
				1732.5	20175	21.25	23	0-1	
				1754.3	20393	21.20	23	0-1	
			2	1710.7	19957	21.34	23	0-1	
				1732.5	20175	21.30	23	0-1	
				1754.3	20393	21.16	23	0-1	
			3	1710.7	19957	21.26	23	0-1	
				1732.5	20175	21.15	23	0-1	
				1754.3	20393	21.02	23	0-1	
		6RB			1710.7	19957	20.50	22	0-2
					1732.5	20175	20.36	22	0-2
					1754.3	20393	20.02	22	0-2

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FDD Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	829	20450	23.07	24.5	0
				836.5	20525	23.18	24.5	0
				844	20600	23.45	24.5	0
			25	829	20450	23.26	24.5	0
				836.5	20525	23.36	24.5	0
				844	20600	23.30	24.5	0
			49	829	20450	23.19	24.5	0
				836.5	20525	23.13	24.5	0
				844	20600	23.28	24.5	0
		25 RB	0	829	20450	22.08	23.5	0-1
				836.5	20525	22.22	23.5	0-1
				844	20600	22.31	23.5	0-1
			12	829	20450	22.09	23.5	0-1
				836.5	20525	22.23	23.5	0-1
				844	20600	22.38	23.5	0-1
			25	829	20450	22.17	23.5	0-1
				836.5	20525	22.20	23.5	0-1
				844	20600	22.51	23.5	0-1
		50RB		829	20450	22.06	23.5	0-1
				836.5	20525	22.25	23.5	0-1
				844	20600	22.31	23.5	0-1
	16-QAM	1 RB	0	829	20450	22.37	23.5	0-1
				836.5	20525	22.21	23.5	0-1
				844	20600	22.49	23.5	0-1
			25	829	20450	22.13	23.5	0-1
				836.5	20525	22.49	23.5	0-1
				844	20600	23.06	23.5	0-1
			49	829	20450	22.20	23.5	0-1
				836.5	20525	22.36	23.5	0-1
				844	20600	22.79	23.5	0-1
		25 RB	0	829	20450	21.19	22.5	0-2
				836.5	20525	21.15	22.5	0-2
				844	20600	21.24	22.5	0-2
			12	829	20450	21.21	22.5	0-2
				836.5	20525	21.22	22.5	0-2
				844	20600	21.41	22.5	0-2
			25	829	20450	21.05	22.5	0-2
				836.5	20525	21.17	22.5	0-2
				844	20600	21.40	22.5	0-2
		50RB		829	20450	21.12	22.5	0-2
				836.5	20525	21.25	22.5	0-2
				844	20600	21.25	22.5	0-2

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FDD Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	826.5	20425	23.22	24.5	0
				836.5	20525	23.22	24.5	0
				846.5	20625	23.30	24.5	0
			12	826.5	20425	23.35	24.5	0
				836.5	20525	23.15	24.5	0
				846.5	20625	23.27	24.5	0
			24	826.5	20425	23.22	24.5	0
				836.5	20525	23.41	24.5	0
				846.5	20625	23.26	24.5	0
		12 RB	0	826.5	20425	22.19	23.5	0-1
				836.5	20525	22.17	23.5	0-1
				846.5	20625	22.36	23.5	0-1
			6	826.5	20425	22.24	23.5	0-1
				836.5	20525	22.25	23.5	0-1
				846.5	20625	22.42	23.5	0-1
			13	826.5	20425	22.17	23.5	0-1
				836.5	20525	22.32	23.5	0-1
				846.5	20625	22.38	23.5	0-1
		25RB		826.5	20425	22.11	23.5	0-1
				836.5	20525	22.33	23.5	0-1
				846.5	20625	22.49	23.5	0-1
	16-QAM	1 RB	0	826.5	20425	22.42	23.5	0-1
				836.5	20525	21.77	23.5	0-1
				846.5	20625	22.80	23.5	0-1
			12	826.5	20425	22.37	23.5	0-1
				836.5	20525	22.52	23.5	0-1
				846.5	20625	22.92	23.5	0-1
			24	826.5	20425	22.54	23.5	0-1
				836.5	20525	22.74	23.5	0-1
				846.5	20625	22.92	23.5	0-1
		12 RB	0	826.5	20425	21.14	22.5	0-2
				836.5	20525	21.21	22.5	0-2
				846.5	20625	21.41	22.5	0-2
			6	826.5	20425	21.20	22.5	0-2
				836.5	20525	21.34	22.5	0-2
				846.5	20625	21.31	22.5	0-2
			13	826.5	20425	21.10	22.5	0-2
				836.5	20525	21.21	22.5	0-2
				846.5	20625	21.37	22.5	0-2
		25RB		826.5	20425	21.18	22.5	0-2
				836.5	20525	21.36	22.5	0-2
				846.5	20625	21.44	22.5	0-2

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FDD Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	825.5	20415	23.17	24.5	0
				836.5	20525	23.18	24.5	0
				847.5	20635	23.61	24.5	0
			7	825.5	20415	23.38	24.5	0
				836.5	20525	23.36	24.5	0
				847.5	20635	23.40	24.5	0
			14	825.5	20415	23.20	24.5	0
				836.5	20525	23.39	24.5	0
				847.5	20635	23.39	24.5	0
		8 RB	0	825.5	20415	22.14	23.5	0-1
				836.5	20525	22.20	23.5	0-1
				847.5	20635	22.37	23.5	0-1
			4	825.5	20415	22.03	23.5	0-1
				836.5	20525	22.29	23.5	0-1
				847.5	20635	22.36	23.5	0-1
			7	825.5	20415	22.11	23.5	0-1
				836.5	20525	22.37	23.5	0-1
				847.5	20635	22.39	23.5	0-1
		15RB		825.5	20415	22.17	23.5	0-1
				836.5	20525	22.19	23.5	0-1
				847.5	20635	22.39	23.5	0-1
	16-QAM	1 RB	0	825.5	20415	22.29	23.5	0-1
				836.5	20525	22.25	23.5	0-1
				847.5	20635	22.75	23.5	0-1
			7	825.5	20415	22.95	23.5	0-1
				836.5	20525	22.92	23.5	0-1
				847.5	20635	22.53	23.5	0-1
			14	825.5	20415	22.55	23.5	0-1
				836.5	20525	22.07	23.5	0-1
				847.5	20635	22.50	23.5	0-1
		8 RB	0	825.5	20415	21.20	22.5	0-2
				836.5	20525	21.28	22.5	0-2
				847.5	20635	21.25	22.5	0-2
			4	825.5	20415	21.09	22.5	0-2
				836.5	20525	21.32	22.5	0-2
				847.5	20635	21.50	22.5	0-2
			7	825.5	20415	21.10	22.5	0-2
				836.5	20525	21.33	22.5	0-2
				847.5	20635	21.37	22.5	0-2
		15RB		825.5	20415	21.35	22.5	0-2
				836.5	20525	21.36	22.5	0-2
				847.5	20635	21.47	22.5	0-2

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FDD Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	824.7	20407	23.23	24.5	0
				836.5	20525	23.43	24.5	0
				848.3	20643	23.46	24.5	0
			2	824.7	20407	23.12	24.5	0
				836.5	20525	23.15	24.5	0
				848.3	20643	23.39	24.5	0
			5	824.7	20407	23.30	24.5	0
				836.5	20525	23.27	24.5	0
				848.3	20643	23.19	24.5	0
		3 RB	0	824.7	20407	23.12	24.5	0
				836.5	20525	23.37	24.5	0
				848.3	20643	23.50	24.5	0
			2	824.7	20407	23.28	24.5	0
				836.5	20525	23.42	24.5	0
				848.3	20643	23.28	24.5	0
			3	824.7	20407	23.20	24.5	0
				836.5	20525	23.36	24.5	0
				848.3	20643	23.45	24.5	0
		6RB		824.7	20407	22.03	23.5	0-1
				836.5	20525	22.29	23.5	0-1
				848.3	20643	22.32	23.5	0-1
	16-QAM	1 RB	0	824.7	20407	22.52	23.5	0-1
				836.5	20525	22.78	23.5	0-1
				848.3	20643	22.90	23.5	0-1
			2	824.7	20407	22.75	23.5	0-1
				836.5	20525	22.54	23.5	0-1
				848.3	20643	22.98	23.5	0-1
			5	824.7	20407	21.98	23.5	0-1
				836.5	20525	22.38	23.5	0-1
				848.3	20643	22.20	23.5	0-1
		3 RB	0	824.7	20407	22.25	23.5	0-1
				836.5	20525	22.34	23.5	0-1
				848.3	20643	22.42	23.5	0-1
			2	824.7	20407	22.31	23.5	0-1
				836.5	20525	22.41	23.5	0-1
				848.3	20643	22.40	23.5	0-1
			3	824.7	20407	22.20	23.5	0-1
				836.5	20525	22.28	23.5	0-1
				848.3	20643	22.41	23.5	0-1
		6RB		824.7	20407	20.96	22.5	0-2
				836.5	20525	21.22	22.5	0-2
				848.3	20643	21.27	22.5	0-2

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
20	QPSK	1 RB	0	2510	20850	22.67	23	0	
				2535	21100	22.62	23	0	
				2560	21350	22.52	23	0	
			50	2510	20850	22.12	23	0	
				2535	21100	21.77	23	0	
				2560	21350	21.77	23	0	
			99	2510	20850	22.61	23	0	
				2535	21100	22.42	23	0	
				2560	21350	22.24	23	0	
		50 RB	0	2510	20850	21.56	22	0-1	
				2535	21100	21.37	22	0-1	
				2560	21350	21.16	22	0-1	
			25	2510	20850	21.37	22	0-1	
				2535	21100	21.16	22	0-1	
				2560	21350	20.83	22	0-1	
			50	2510	20850	21.43	22	0-1	
				2535	21100	21.24	22	0-1	
				2560	21350	20.84	22	0-1	
		100RB			2510	20850	21.52	22	0-1
					2535	21100	21.39	22	0-1
					2560	21350	21.07	22	0-1
	16-QAM	1 RB	0	2510	20850	21.92	22	0-1	
				2535	21100	21.75	22	0-1	
				2560	21350	21.66	22	0-1	
			50	2510	20850	21.24	22	0-1	
				2535	21100	21.08	22	0-1	
				2560	21350	20.53	22	0-1	
			99	2510	20850	22.00	22	0-1	
				2535	21100	21.57	22	0-1	
				2560	21350	21.56	22	0-1	
		50 RB	0	2510	20850	20.63	21	0-2	
				2535	21100	20.30	21	0-2	
				2560	21350	19.90	21	0-2	
			25	2510	20850	20.43	21	0-2	
				2535	21100	20.25	21	0-2	
				2560	21350	19.87	21	0-2	
			50	2510	20850	20.39	21	0-2	
				2535	21100	20.14	21	0-2	
				2560	21350	19.85	21	0-2	
		100RB			2510	20850	20.33	21	0-2
					2535	21100	20.30	21	0-2
					2560	21350	20.00	21	0-2

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FDD Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	2507.5	20825	22.64	23	0
				2535	21100	22.51	23	0
				2562.5	21375	22.39	23	0
			36	2507.5	20825	22.05	23	0
				2535	21100	21.96	23	0
				2562.5	21375	21.76	23	0
			74	2507.5	20825	22.56	23	0
				2535	21100	22.37	23	0
				2562.5	21375	21.88	23	0
		36 RB	0	2507.5	20825	21.56	22	0-1
				2535	21100	21.48	22	0-1
				2562.5	21375	20.94	22	0-1
			18	2507.5	20825	21.33	22	0-1
				2535	21100	21.19	22	0-1
				2562.5	21375	20.84	22	0-1
			37	2507.5	20825	21.25	22	0-1
				2535	21100	21.24	22	0-1
				2562.5	21375	20.91	22	0-1
		75RB		2507.5	20825	21.48	22	0-1
				2535	21100	21.22	22	0-1
				2562.5	21375	20.88	22	0-1
	16-QAM	1 RB	0	2507.5	20825	21.96	22	0-1
				2535	21100	21.81	22	0-1
				2562.5	21375	21.28	22	0-1
			36	2507.5	20825	21.80	22	0-1
				2535	21100	21.21	22	0-1
				2562.5	21375	21.10	22	0-1
			74	2507.5	20825	21.84	22	0-1
				2535	21100	21.60	22	0-1
				2562.5	21375	21.13	22	0-1
		36 RB	0	2507.5	20825	20.52	21	0-2
				2535	21100	20.24	21	0-2
				2562.5	21375	19.97	21	0-2
			18	2507.5	20825	20.34	21	0-2
				2535	21100	20.15	21	0-2
				2562.5	21375	19.85	21	0-2
			37	2507.5	20825	20.18	21	0-2
				2535	21100	20.16	21	0-2
				2562.5	21375	19.87	21	0-2
		75RB		2507.5	20825	20.43	21	0-2
				2535	21100	20.30	21	0-2
				2562.5	21375	19.88	21	0-2

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FDD Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	2505	20800	22.32	23	0
				2535	21100	22.26	23	0
				2565	21400	21.88	23	0
			25	2505	20800	22.06	23	0
				2535	21100	21.86	23	0
				2565	21400	21.86	23	0
			49	2505	20800	22.19	23	0
				2535	21100	22.00	23	0
				2565	21400	21.83	23	0
		25 RB	0	2505	20800	21.29	22	0-1
				2535	21100	21.13	22	0-1
				2565	21400	20.85	22	0-1
			12	2505	20800	21.26	22	0-1
				2535	21100	20.99	22	0-1
				2565	21400	20.79	22	0-1
			25	2505	20800	21.32	22	0-1
				2535	21100	21.02	22	0-1
				2565	21400	20.82	22	0-1
		50RB		2505	20800	21.34	22	0-1
				2535	21100	21.12	22	0-1
				2565	21400	20.87	22	0-1
	16-QAM	1 RB	0	2505	20800	21.95	22	0-1
				2535	21100	21.46	22	0-1
				2565	21400	21.29	22	0-1
			25	2505	20800	21.38	22	0-1
				2535	21100	20.89	22	0-1
				2565	21400	20.99	22	0-1
			49	2505	20800	21.53	22	0-1
				2535	21100	20.96	22	0-1
				2565	21400	20.97	22	0-1
		25 RB	0	2505	20800	20.35	21	0-2
				2535	21100	20.22	21	0-2
				2565	21400	20.05	21	0-2
			12	2505	20800	20.19	21	0-2
				2535	21100	20.04	21	0-2
				2565	21400	19.78	21	0-2
			25	2505	20800	20.25	21	0-2
				2535	21100	20.02	21	0-2
				2565	21400	19.87	21	0-2
		50RB		2505	20800	20.33	21	0-2
				2535	21100	20.01	21	0-2
				2565	21400	19.87	21	0-2

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FDD Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	2502.5	20775	22.16	23	0
				2535	21100	21.96	23	0
				2567.5	21425	21.82	23	0
			12	2502.5	20775	22.12	23	0
				2535	21100	21.99	23	0
				2567.5	21425	21.75	23	0
			24	2502.5	20775	22.17	23	0
				2535	21100	21.85	23	0
				2567.5	21425	21.70	23	0
		12 RB	0	2502.5	20775	21.28	22	0-1
				2535	21100	21.00	22	0-1
				2567.5	21425	20.83	22	0-1
			6	2502.5	20775	21.21	22	0-1
				2535	21100	20.96	22	0-1
				2567.5	21425	20.85	22	0-1
			13	2502.5	20775	21.20	22	0-1
				2535	21100	20.95	22	0-1
				2567.5	21425	20.77	22	0-1
		25RB		2502.5	20775	21.22	22	0-1
				2535	21100	20.89	22	0-1
				2567.5	21425	20.80	22	0-1
	16-QAM	1 RB	0	2502.5	20775	21.71	22	0-1
				2535	21100	20.81	22	0-1
				2567.5	21425	21.08	22	0-1
			12	2502.5	20775	21.33	22	0-1
				2535	21100	21.03	22	0-1
				2567.5	21425	21.02	22	0-1
			24	2502.5	20775	21.33	22	0-1
				2535	21100	21.32	22	0-1
				2567.5	21425	21.07	22	0-1
		12 RB	0	2502.5	20775	20.26	21	0-2
				2535	21100	20.04	21	0-2
				2567.5	21425	19.86	21	0-2
			6	2502.5	20775	20.32	21	0-2
				2535	21100	19.89	21	0-2
				2567.5	21425	19.87	21	0-2
			13	2502.5	20775	20.31	21	0-2
				2535	21100	20.03	21	0-2
				2567.5	21425	19.80	21	0-2
		25RB		2502.5	20775	20.29	21	0-2
				2535	21100	19.98	21	0-2
				2567.5	21425	19.96	21	0-2

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
10	QPSK	1 RB	0	704	23060	23.61	24.5	0	
				707.5	23095	23.47	24.5	0	
				711	23130	23.61	24.5	0	
			25	704	23060	23.70	24.5	0	
				707.5	23095	23.65	24.5	0	
				711	23130	23.74	24.5	0	
			49	704	23060	23.87	24.5	0	
				707.5	23095	23.89	24.5	0	
				711	23130	24.00	24.5	0	
		25 RB	0	704	23060	22.80	23.5	0-1	
				707.5	23095	22.91	23.5	0-1	
				711	23130	22.87	23.5	0-1	
			12	704	23060	22.89	23.5	0-1	
				707.5	23095	22.98	23.5	0-1	
				711	23130	23.02	23.5	0-1	
			25	704	23060	22.88	23.5	0-1	
				707.5	23095	23.00	23.5	0-1	
				711	23130	23.12	23.5	0-1	
		50RB			704	23060	22.94	23.5	0-1
					707.5	23095	22.91	23.5	0-1
					711	23130	23.00	23.5	0-1
	16-QAM	1 RB	0	704	23060	23.24	23.5	0-1	
				707.5	23095	23.05	23.5	0-1	
				711	23130	23.08	23.5	0-1	
			25	704	23060	23.52	23.5	0-1	
				707.5	23095	22.96	23.5	0-1	
				711	23130	22.92	23.5	0-1	
			49	704	23060	23.31	23.5	0-1	
				707.5	23095	23.47	23.5	0-1	
				711	23130	23.31	23.5	0-1	
			25 RB	0	704	23060	21.79	22.5	0-2
					707.5	23095	21.75	22.5	0-2
					711	23130	21.83	22.5	0-2
				12	704	23060	21.85	22.5	0-2
					707.5	23095	21.94	22.5	0-2
					711	23130	22.01	22.5	0-2
				25	704	23060	21.89	22.5	0-2
					707.5	23095	21.94	22.5	0-2
					711	23130	22.11	22.5	0-2
		50RB			704	23060	21.95	22.5	0-2
					707.5	23095	21.98	22.5	0-2
					711	23130	21.98	22.5	0-2

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FDD Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	701.5	23035	23.59	24.5	0
				707.5	23095	23.61	24.5	0
				713.5	23155	23.70	24.5	0
			12	701.5	23035	23.65	24.5	0
				707.5	23095	23.69	24.5	0
				713.5	23155	23.94	24.5	0
			24	701.5	23035	23.78	24.5	0
				707.5	23095	23.83	24.5	0
				713.5	23155	24.00	24.5	0
		12 RB	0	701.5	23035	22.95	23.5	0-1
				707.5	23095	22.72	23.5	0-1
				713.5	23155	23.01	23.5	0-1
			6	701.5	23035	22.97	23.5	0-1
				707.5	23095	22.87	23.5	0-1
				713.5	23155	23.12	23.5	0-1
			13	701.5	23035	22.77	23.5	0-1
				707.5	23095	22.95	23.5	0-1
				713.5	23155	23.11	23.5	0-1
		25RB		701.5	23035	22.72	23.5	0-1
				707.5	23095	22.85	23.5	0-1
				713.5	23155	23.09	23.5	0-1
	16-QAM	1 RB	0	701.5	23035	23.15	23.5	0-1
				707.5	23095	22.74	23.5	0-1
				713.5	23155	22.87	23.5	0-1
			12	701.5	23035	23.32	23.5	0-1
				707.5	23095	23.32	23.5	0-1
				713.5	23155	22.97	23.5	0-1
			24	701.5	23035	22.67	23.5	0-1
				707.5	23095	23.05	23.5	0-1
				713.5	23155	23.50	23.5	0-1
		12 RB	0	701.5	23035	21.87	22.5	0-2
				707.5	23095	21.72	22.5	0-2
				713.5	23155	21.93	22.5	0-2
			6	701.5	23035	21.84	22.5	0-2
				707.5	23095	21.73	22.5	0-2
				713.5	23155	22.15	22.5	0-2
			13	701.5	23035	21.79	22.5	0-2
				707.5	23095	21.94	22.5	0-2
				713.5	23155	22.09	22.5	0-2
		25RB		701.5	23035	21.84	22.5	0-2
				707.5	23095	21.84	22.5	0-2
				713.5	23155	22.02	22.5	0-2

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FDD Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	700.5	23025	23.75	24.5	0
				707.5	23095	23.78	24.5	0
				714.5	23165	23.84	24.5	0
			7	700.5	23025	23.93	24.5	0
				707.5	23095	23.97	24.5	0
				714.5	23165	23.88	24.5	0
			14	700.5	23025	23.80	24.5	0
				707.5	23095	23.75	24.5	0
				714.5	23165	23.81	24.5	0
		8 RB	0	700.5	23025	22.90	23.5	0-1
				707.5	23095	22.87	23.5	0-1
				714.5	23165	23.00	23.5	0-1
			4	700.5	23025	22.84	23.5	0-1
				707.5	23095	22.88	23.5	0-1
				714.5	23165	23.10	23.5	0-1
			7	700.5	23025	22.85	23.5	0-1
				707.5	23095	22.86	23.5	0-1
				714.5	23165	23.02	23.5	0-1
		15RB		700.5	23025	22.88	23.5	0-1
				707.5	23095	22.91	23.5	0-1
				714.5	23165	23.14	23.5	0-1
	16-QAM	1 RB	0	700.5	23025	23.35	23.5	0-1
				707.5	23095	22.89	23.5	0-1
				714.5	23165	23.07	23.5	0-1
			7	700.5	23025	23.47	23.5	0-1
				707.5	23095	23.11	23.5	0-1
				714.5	23165	23.17	23.5	0-1
			14	700.5	23025	22.96	23.5	0-1
				707.5	23095	23.25	23.5	0-1
				714.5	23165	23.44	23.5	0-1
		8 RB	0	700.5	23025	22.00	22.5	0-2
				707.5	23095	21.93	22.5	0-2
				714.5	23165	22.10	22.5	0-2
			4	700.5	23025	21.82	22.5	0-2
				707.5	23095	21.98	22.5	0-2
				714.5	23165	22.08	22.5	0-2
			7	700.5	23025	21.66	22.5	0-2
				707.5	23095	21.77	22.5	0-2
				714.5	23165	21.94	22.5	0-2
		15RB		700.5	23025	21.83	22.5	0-2
				707.5	23095	21.80	22.5	0-2
				714.5	23165	22.36	22.5	0-2

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1.4	QPSK	1 RB	0	699.7	23017	23.68	24.5	0	
				707.5	23095	23.66	24.5	0	
				715.3	23173	23.74	24.5	0	
			2	699.7	23017	23.77	24.5	0	
				707.5	23095	23.80	24.5	0	
				715.3	23173	23.99	24.5	0	
			5	699.7	23017	23.75	24.5	0	
				707.5	23095	23.74	24.5	0	
				715.3	23173	23.83	24.5	0	
		3 RB	0	699.7	23017	23.91	24.5	0	
				707.5	23095	23.84	24.5	0	
				715.3	23173	24.03	24.5	0	
			2	699.7	23017	23.42	24.5	0	
				707.5	23095	23.47	24.5	0	
				715.3	23173	23.46	24.5	0	
			3	699.7	23017	23.48	24.5	0	
				707.5	23095	23.47	24.5	0	
				715.3	23173	23.41	24.5	0	
		6RB			699.7	23017	22.89	23.5	0-1
					707.5	23095	22.57	23.5	0-1
					715.3	23173	22.99	23.5	0-1
	16-QAM	1 RB	0	699.7	23017	23.10	23.5	0-1	
				707.5	23095	22.81	23.5	0-1	
				715.3	23173	22.96	23.5	0-1	
			2	699.7	23017	23.31	23.5	0-1	
				707.5	23095	23.19	23.5	0-1	
				715.3	23173	23.35	23.5	0-1	
			5	699.7	23017	22.77	23.5	0-1	
				707.5	23095	23.31	23.5	0-1	
				715.3	23173	23.37	23.5	0-1	
		3 RB	0	699.7	23017	22.38	23.5	0-1	
				707.5	23095	22.16	23.5	0-1	
				715.3	23173	22.46	23.5	0-1	
			2	699.7	23017	22.47	23.5	0-1	
				707.5	23095	22.45	23.5	0-1	
				715.3	23173	22.43	23.5	0-1	
			3	699.7	23017	22.47	23.5	0-1	
				707.5	23095	22.42	23.5	0-1	
				715.3	23173	22.45	23.5	0-1	
		6RB			699.7	23017	21.93	22.5	0-2
					707.5	23095	21.96	22.5	0-2
					715.3	23173	22.04	22.5	0-2

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FDD Band 13								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	782	23230	23.71	25	0
			25	782	23230	23.97	25	0
			49	782	23230	23.79	25	0
		25 RB	0	782	23230	22.66	24	0-1
			12	782	23230	22.58	24	0-1
			25	782	23230	22.50	24	0-1
		50RB		782	23230	22.67	24	0-1
	16-QAM	1 RB	0	782	23230	22.82	24	0-1
			25	782	23230	22.80	24	0-1
			49	782	23230	22.66	24	0-1
		25 RB	0	782	23230	21.62	23	0-2
			12	782	23230	21.58	23	0-2
			25	782	23230	21.50	23	0-2
		50RB		782	23230	21.67	23	0-2

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FDD Band 13								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	779.5	23205	23.52	25	0
				782	23230	23.45	25	0
				784.5	23255	23.52	25	0
			12	779.5	23205	23.69	25	0
				782	23230	23.48	25	0
				784.5	23255	23.54	25	0
			24	779.5	23205	23.60	25	0
				782	23230	23.42	25	0
				784.5	23255	23.37	25	0
		12 RB	0	779.5	23205	22.89	24	0-1
				782	23230	22.54	24	0-1
				784.5	23255	22.53	24	0-1
			6	779.5	23205	22.87	24	0-1
				782	23230	22.57	24	0-1
				784.5	23255	22.54	24	0-1
			13	779.5	23205	22.76	24	0-1
				782	23230	22.51	24	0-1
				784.5	23255	22.53	24	0-1
		25RB		779.5	23205	22.79	24	0-1
				782	23230	22.55	24	0-1
				784.5	23255	22.47	24	0-1
	16-QAM	1 RB	0	779.5	23205	23.00	24	0-1
				782	23230	22.87	24	0-1
				784.5	23255	22.85	24	0-1
			12	779.5	23205	22.95	24	0-1
				782	23230	22.82	24	0-1
				784.5	23255	22.79	24	0-1
			24	779.5	23205	22.93	24	0-1
				782	23230	22.71	24	0-1
				784.5	23255	22.67	24	0-1
		12 RB	0	779.5	23205	21.97	23	0-2
				782	23230	21.57	23	0-2
				784.5	23255	21.52	23	0-2
			6	779.5	23205	21.92	23	0-2
				782	23230	21.56	23	0-2
				784.5	23255	21.51	23	0-2
			13	779.5	23205	21.80	23	0-2
				782	23230	21.51	23	0-2
				784.5	23255	21.56	23	0-2
		25RB		779.5	23205	21.81	23	0-2
				782	23230	21.57	23	0-2
				784.5	23255	21.49	23	0-2

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FDD Band 30								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	2310	27710	22.57	23.5	0
			25	2310	27710	22.41	23.5	0
			49	2310	27710	22.37	23.5	0
		25 RB	0	2310	27710	21.59	22.5	0-1
			12	2310	27710	21.60	22.5	0-1
			25	2310	27710	21.91	22.5	0-1
		50RB		2310	27710	21.53	22.5	0-1
	16-QAM	1 RB	0	2310	27710	21.76	22.5	0-1
			25	2310	27710	21.63	22.5	0-1
			49	2310	27710	21.82	22.5	0-1
		25 RB	0	2310	27710	20.36	21.5	0-2
			12	2310	27710	20.39	21.5	0-2
			25	2310	27710	20.73	21.5	0-2
		50RB		2310	27710	20.62	21.5	0-2

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FDD Band 30										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
5	QPSK	1 RB	0	2307.5	27685	22.57	23.5	0		
				2310	27710	22.45	23.5	0		
				2312.5	27735	22.29	23.5	0		
			12	2307.5	27685	22.48	23.5	0		
				2310	27710	22.28	23.5	0		
				2312.5	27735	21.94	23.5	0		
			24	2307.5	27685	22.35	23.5	0		
				2310	27710	21.96	23.5	0		
				2312.5	27735	21.57	23.5	0		
		12 RB	0	2307.5	27685	21.35	22.5	0-1		
				2310	27710	21.61	22.5	0-1		
				2312.5	27735	21.49	22.5	0-1		
			6	2307.5	27685	21.85	22.5	0-1		
				2310	27710	21.56	22.5	0-1		
				2312.5	27735	21.78	22.5	0-1		
			13	2307.5	27685	21.69	22.5	0-1		
				2310	27710	21.50	22.5	0-1		
				2312.5	27735	21.52	22.5	0-1		
		25RB			2307.5	27685	21.74	22.5	0-1	
					2310	27710	21.45	22.5	0-1	
					2312.5	27735	21.24	22.5	0-1	
	16-QAM	1 RB	0	2307.5	27685	21.86	22.5	0-1		
				2310	27710	21.15	22.5	0-1		
				2312.5	27735	21.86	22.5	0-1		
				12	2307.5	27685	21.63	22.5	0-1	
					2310	27710	22.11	22.5	0-1	
					2312.5	27735	21.27	22.5	0-1	
				24	2307.5	27685	21.73	22.5	0-1	
					2310	27710	21.40	22.5	0-1	
					2312.5	27735	21.28	22.5	0-1	
			12 RB	0	2307.5	27685	20.57	21.5	0-2	
					2310	27710	20.43	21.5	0-2	
					2312.5	27735	20.57	21.5	0-2	
				6	2307.5	27685	20.46	21.5	0-2	
					2310	27710	20.79	21.5	0-2	
					2312.5	27735	20.50	21.5	0-2	
				13	2307.5	27685	20.41	21.5	0-2	
					2310	27710	20.70	21.5	0-2	
					2312.5	27735	20.46	21.5	0-2	
			25RB			2307.5	27685	20.42	21.5	0-2
						2310	27710	20.26	21.5	0-2
						2312.5	27735	20.65	21.5	0-2

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LTE FDD Band II / Band IV / Band V / Band XIII CA power table:

Two Component Carrier Maximum Conducted Power															
PCC									SCC				Power		Configurations
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	PCC (DL) Channel	PCC (DL) Frequency [MHz]	LTE Rel 10 Tx.Power (dBm)	LTE Rel 8 Tx.Power (dBm)	
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	21.94	23.89	CA_2C
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	15	871	1957.1	22.08	23.89	CA_2C
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	10	844	1954.4	23.01	23.89	CA_2C
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	5	817	1951.7	22.24	23.89	CA_2C
LTE B2	15	18675	1857.5	QPSK	1	0	675	1937.5	LTE B2	15	825	1952.5	22.82	23.48	CA_2C
LTE B2	15	18675	1857.5	QPSK	1	0	675	1937.5	LTE B2	10	795	1949.5	22.44	23.48	CA_2C
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	5	1175	1987.5	23.01	23.89	CA_2A+2A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2132.5	22.66	23.89	CA_2A+4A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	22.88	23.89	CA_2A+5A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B13	10	5230	751	23.09	23.89	CA_2A+13A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	22.94	23.55	CA_4A+2A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	5	2375	2152.5	22.66	23.55	CA_4A+4A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B5	10	2525	881.5	22.43	23.55	CA_4A+5A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B13	10	5230	751	22.74	23.55	CA_4A+13A
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B2	20	900	1960	22.09	23.45	CA_5A+2A
LTE B5	10	20600	844	QPSK	1	0	2600	889	LTE B4	20	2175	2132.5	23.02	23.45	CA_5A+4A
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B2	20	900	1960	22.94	23.97	CA_13A+2A
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B4	20	2175	2132.5	23.12	23.97	CA_13A+4A

Note.

- 2DL CA configurations for Inter-band CA: CA_2A-4A, CA_2A-5A, CA_2A-13A, CA_4A-5A, CA_4A-13A
- 2DL CA configurations for Intra-band contiguous CA: CA_2C
- 2DL CA configurations for Intra-band non-contiguous CA: CA_2A-2A, CA_4A-4A
- Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

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

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

Main (CH0)

802.11 b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			1
1	2412	17	16.09
6	2437	17	16.15
11	2462	17	16.04

802.11 g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6
1	2412	17	16.63
6	2437	17	16.60
11	2462	17	16.61

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Main (CH0)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
1	2412	14	13.31
6	2437	14	13.25
11	2462	14	13.33

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
3	2422	14	13.44
6	2437	14	13.12
9	2452	14	13.08

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Main (CH0)

802.11 a		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		6
36	5180	14	13.86
40	5200	14	13.75
44	5220	14	13.35
48	5240	14	13.24
52	5260	14	13.92
56	5280	14	13.87
60	5300	14	13.83
64	5320	14	13.80
100	5500	13	12.98
120	5600	13	12.78
140	5700	13	12.56
149	5745	13	12.71
157	5785	13	12.72
165	5825	13	12.73

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Main (CH0)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
36	5180	14	13.24
40	5200	14	13.04
44	5220	14	13.88
48	5240	14	13.76
52	5260	14	13.71
56	5280	14	13.68
60	5300	14	13.67
64	5320	14	13.60
100	5500	13	12.78
120	5600	13	12.52
140	5700	13	12.21
149	5745	13	12.43
157	5785	13	12.42
165	5825	13	12.41

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Main (CH0)

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		
38	5190	14	13.87
46	5230	14	13.75
54	5270	14	13.16
62	5310	14	13.12
102	5510	12	11.72
110	5550	12	11.63
118	5590	12	11.56
126	5630	12	11.48
134	5670	12	11.43

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Main (CH0)

802.11 ac(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
36	5180	14	13.25
40	5200	14	13.04
44	5220	14	13.83
48	5240	14	13.76
52	5260	14	13.68
56	5280	14	13.66
60	5300	14	13.67
64	5320	14	13.57
100	5500	13	12.45
120	5600	13	12.31
140	5700	13	12.34
144	5720	13	12.85
149	5745	13	12.78
157	5785	13	12.81
165	5825	13	12.87

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Main (CH0)

802.11 ac(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		
38	5190	14	13.60
46	5230	14	13.28
54	5270	14	13.15
62	5310	14	13.16
102	5510	12	11.82
110	5550	12	11.77
118	5590	12	11.75
126	5630	12	11.76
134	5670	12	11.63
142	5710	12	11.52
151	5755	12	11.44
159	5795	12	11.41

802.11 ac(80M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			
CH	Frequency (MHz)		Data Rate (Mbps)
			29.3
42	5210	13	12.15
58	5290	13	12.35
106	5530	11	10.88
122	5610	13	12.72
138	5690	13	12.39
155	5775	10	9.67

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Aux (CH1)

802.11 b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			1
1	2412	17	16.47
6	2437	17	16.51
11	2462	17	16.60

802.11 g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6
1	2412	17	16.88
6	2437	17	16.99
11	2462	17	16.97

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
1	2412	14	13.72
6	2437	14	13.88
11	2462	14	13.93

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
3	2422	14	13.58
6	2437	14	13.66
9	2452	14	13.82

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Aux (CH1)

802.11 a		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		
36	5180	14	13.91
40	5200	14	13.58
44	5220	14	13.26
48	5240	14	13.90
52	5260	14	13.58
56	5280	14	13.23
60	5300	14	13.97
64	5320	14	13.79
100	5500	13	12.62
120	5600	13	12.43
140	5700	13	12.76
149	5745	13	12.73
157	5785	13	12.37
165	5825	13	12.69

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Aux (CH1)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		
36	5180	14	13.68
40	5200	14	13.32
44	5220	14	13.91
48	5240	14	13.55
52	5260	14	13.23
56	5280	14	13.93
60	5300	14	13.68
64	5320	14	13.41
100	5500	13	12.33
120	5600	13	12.65
140	5700	13	12.26
149	5745	13	12.54
157	5785	13	12.30
165	5825	13	12.64

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Aux (CH1)

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		
38	5190	14	13.83
46	5230	14	13.13
54	5270	14	13.46
62	5310	14	13.98
102	5510	12	11.28
110	5550	12	11.21
118	5590	12	11.15
126	5630	12	11.52
134	5670	12	11.34
151	5755	12	11.88
159	5795	12	11.92

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Aux (CH1)

802.11 ac(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		
36	5180	14	13.55
40	5200	14	13.21
44	5220	14	13.78
48	5240	14	13.43
52	5260	14	13.12
56	5280	14	13.84
60	5300	14	13.60
64	5320	14	13.33
100	5500	13	12.42
120	5600	13	12.33
140	5700	13	12.31
144	5720	13	12.35
149	5745	13	12.89
157	5785	13	12.84
165	5825	13	12.67

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Aux (CH1)

802.11 ac(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
38	5190	14	13.80
46	5230	14	13.09
54	5270	14	13.42
62	5310	14	13.97
102	5510	12	11.35
110	5550	12	11.32
118	5590	12	11.37
126	5630	12	11.84
134	5670	12	11.87
142	5710	12	11.81
151	5755	12	11.74
159	5795	12	11.68

802.11 ac(80M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average conducted output power(dBm)
5.2/5.3/5.6/5.8G			
CH	Frequency (MHz)		Data Rate (Mbps)
			29.3
42	5210	13	12.76
58	5290	13	12.67
106	5530	11	10.94
122	5610	13	12.92
138	5690	13	12.83
155	5775	10	9.82

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Bluetooth conducted power table:

Frequency (MHz)	Data Rate	Max. tune-up power	Average	
			dBm	mW
2402	1	4	0.41	1.099
2441	1	4	2.05	1.603
2480	1	4	0.88	1.225
2402	2	4	-3.12	0.488
2441	2	4	-1.63	0.687
2480	2	4	-3.08	0.492
2402	3	4	-3.15	0.484
2441	3	4	-1.82	0.658
2480	3	4	-2.83	0.521

Frequency (MHz)	BT4.0 Average	
	dBm	mW
2402	-3.22	0.476
2442	-2.57	0.553
2480	-3.31	0.467

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1.4 Test Environment

Ambient Temperature: $22 \pm 2^{\circ} \text{C}$
Tissue Simulating Liquid: $22 \pm 2^{\circ} \text{C}$

1.5 Operation Description

1. The EUT is controlled by using a Radio Communication Tester, 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 and EDGE modes 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. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode. Since the maximum output power in a secondary mode (8-PSK EDGE) is $\leq \frac{1}{4}$ dB higher than the primary mode (GMSK GPRS/EDGE), SAR measurement is not required for the secondary mode (8-PSK EDGE).
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).
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).
7. SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is

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applied to RC1 with RC3 as the primary mode since the maximum output power in a secondary mode (RC1) is $\leq \frac{1}{4}$ dB higher than the primary mode (RC3). When VOIP is supported by Ev-Do devices for next to the ear use, head exposure SAR is required. 1x Ev-Do Rev. A may support VOIP operations.

8. Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCHn), with FCH only as the primary mode. The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. For handsets with Ev-Do capabilities, the 3G SAR test reduction procedure is applied to Ev-Do Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. The 3G SAR test reduction procedure is applied separately to Rev. A and Rev. B, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode.
9. Hotspot SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode
10. 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

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SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.

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

d. Per Section 5.2.4, Higher order modulations

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

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

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

802.11b DSSS SAR Test Requirements:

11. 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.
12. 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:

13. 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.

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Initial Test Configuration:

14. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band.
15. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is $> 0.8 \text{ W/kg}$, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is $\leq 1.2 \text{ W/kg}$ or all required channels are tested.
16. For WLAN Main/Aux antennas, 5.2n(40M)/5.3n(40M)/5.6a/ac(80)/5.8a are chosen to be the initial test configurations.
17. For the right head of WLAN Main, 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 $> 1.2 \text{ W/kg}$, SAR is required for subsequent test configurations.
18. For the right head of WLAN Main, 5.2ac(40)/a/n(20) & 5.3ac(40)/a/n(20) & 5.6n(20) are chosen to be the subsequent test configurations.

LTE downlink CA (KDB942225 D05A)

19. The device supports a maximum of 2 carriers in the downlink. All uplink communications are identical to the Release 8 specifications. Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4} \text{ dB}$ higher than the maximum output power measured when downlink carrier aggregation inactive.
20. The downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements. The nominal channel spacing is determined by $[BW1 + BW2 - 0.1 \cdot |BW1 - BW2|] / 2 \text{ MHz}$, where BW1 and BW2 are the channel bandwidths of the CC in a 2-CC aggregation configuration.

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21. The downlink PCC channel should be paired with the uplink channel according to normal configurations, as if there is no carrier aggregation. The downlink SCC should be adjacent to the PCC and remain within the downlink transmission band for contiguous intra-band CA. For non-contiguous intra-band CA, the SCC should be selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band. For inter-band CA, the SCC should be near the middle of its transmission band.
22. When downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ dB higher than the maximum output power measured when downlink carrier aggregation inactive, so SAR evaluation is not required for downlink carrier aggregation.
23. BT and WLAN Main use the same antenna path and Bluetooth may transmit simultaneously with WLAN Aux.
24. According to KDB447498D01v05r02, 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.
25. 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)
26. According to **KDB447498D01v06** – The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, SAR evaluation is not required.

Mode	Maximum power (dBm)	Maximum power(mW)	front/back sides		
			test separation distance (mm)	Exclusion threshold	Require SAR testing?
BT	4	2.512	10	0.396	NO

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27. Based on KDB248227D01, 1-g SAR thresholds are specified in the procedures for SAR test reduction and exclusion, should be multiplied by 2.5 when 10-g extremity SAR is considered (WLAN 5GHz).
28. The device doesn't support VoLTE, so the head SAR measurement is not required.

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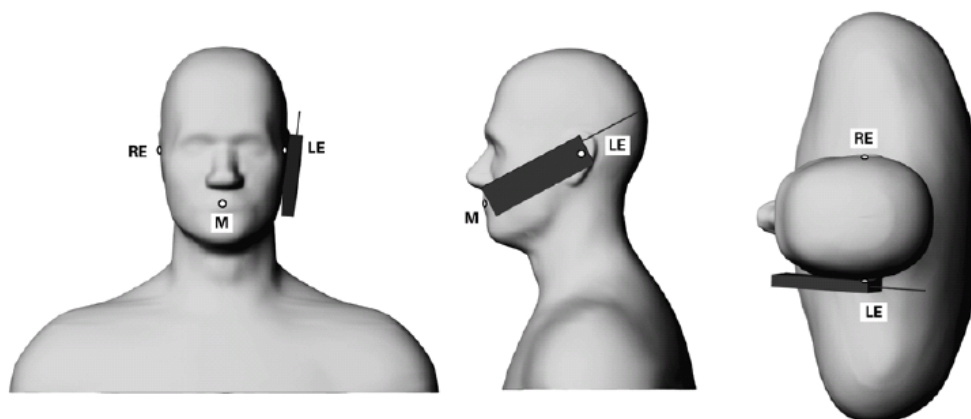
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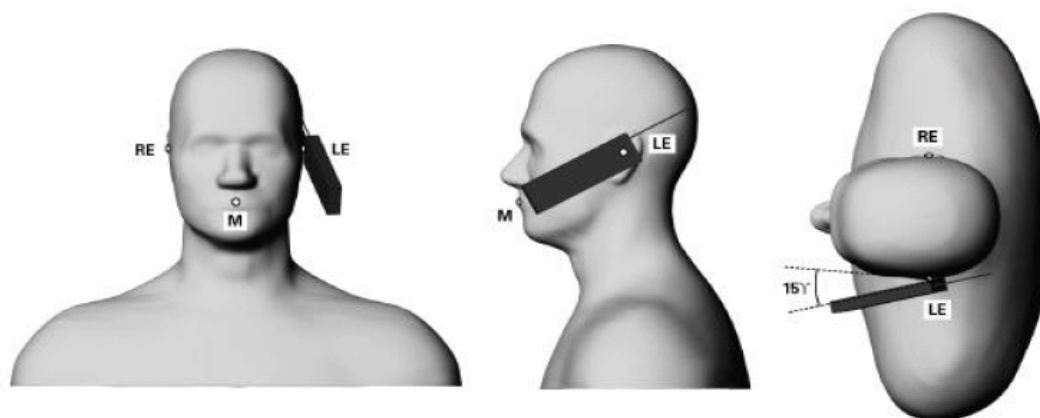
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1.6 Positioning Procedure

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 $> 1.2 \text{ W/kg}$, 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.

Testing body-worn SAR for GSM/CDMA by separating the EUT and the phantom 10mm. Body-worn SAR for WCDMA/LTE/WLAN is covered by hotspot SAR since the position of body-worn overlap the hotspot position and the test separation distance of hotspot is the same with that of body-worn.

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 $9 \text{ cm} \times 5 \text{ cm}$

3. Phablet SAR test consideration

Since the device is a phablet (overall diagonal dimension $> 16.0 \text{ cm}$), the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR. When hotspot mode applies, product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$. Since the highest reported hotspot SAR for WWAN/WLAN 2.4GHz is less than 1.2, 10-g extremity SAR is not required for them.

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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

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between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is then 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 ($\delta T / \delta t$) in the liquid.

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

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

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

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

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thermal equilibrium in the liquid. With a careful setup these errors can be kept small.

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

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

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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.

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- (1) N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
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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.

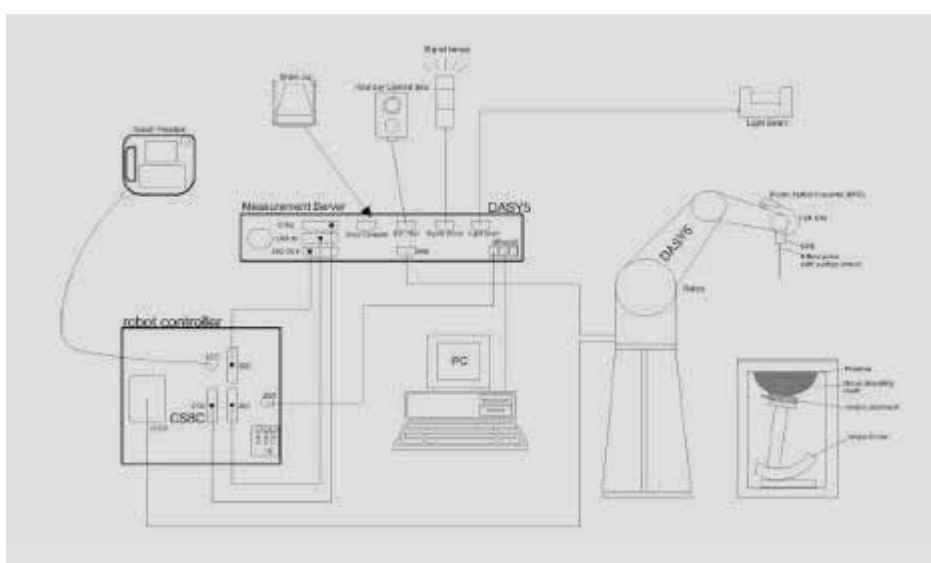


Fig. a A block diagram of the SAR measurement system

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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 HSL750/835/1750/1900/2300/2450/2600/ 5200/5300/5600/5800 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz, 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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SAM PHANTOM V4.0C

Construction:	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209. 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.	
Shell Thickness:	2 ± 0.2 mm	
Filling Volume:	Approx. 25 liters	
Dimensions:	Height: 850 mm; Length: 1000 mm; Width: 500 mm	

DEVICE HOLDER

Construction	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).	 Device Holder
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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 $\pm 10\%$ (according to KDB865664D01v01r03) from the target SAR values.

These tests were done at 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800 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 ambient temperature of the laboratory was 21.7°C , the relative humidity was 62% and the liquid depth above the ear reference points was above 15 cm ($\leq 3\text{G}$) or 10 cm ($> 3\text{G}$) 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.

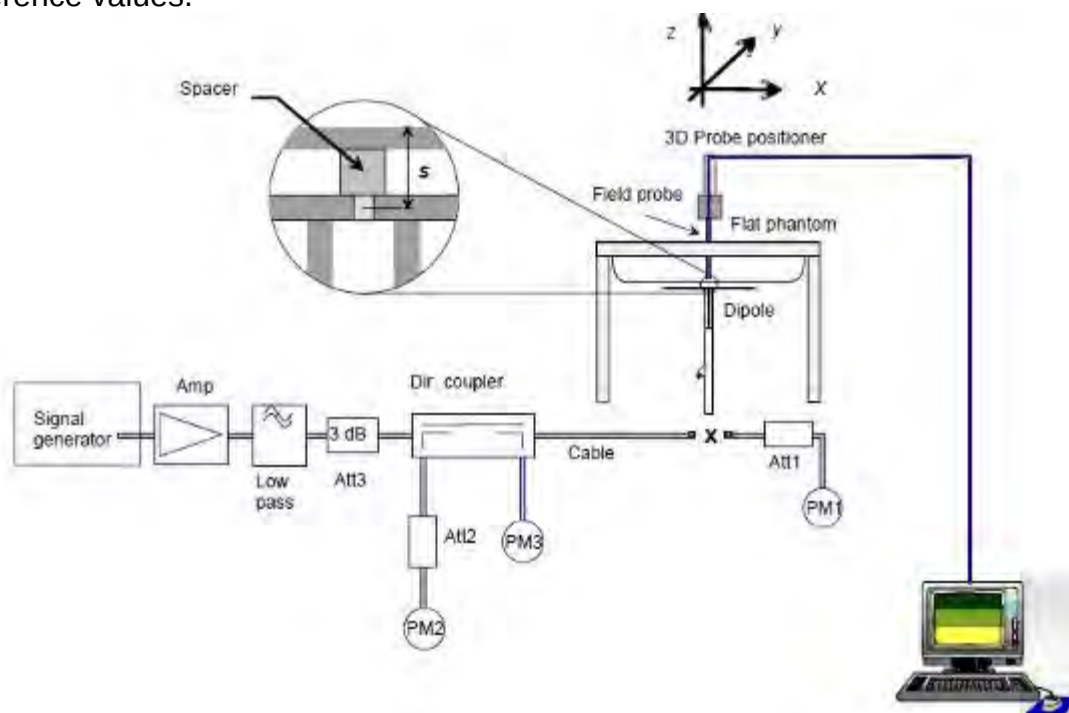


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V3	1015	750	Body	8.52	2.09	8.36	-1.88%	May. 04, 2016
D835V2	4d063	835	Head	9.11	2.35	9.4	3.18%	May. 08, 2016
			Body	9.26	2.4	9.6	3.67%	May. 03, 2016
D1750V2	1008	1750	Head	36.6	9.34	37.36	2.08%	May. 07, 2016
			Body	37.4	9.30	37.2	-0.53%	Apr. 28, 2016
D1900V2	5d027	1900	Head	38.7	10	40	3.36%	May. 02, 2016
			Body	39.7	9.53	38.12	-3.98%	Apr. 27, 2016
D2300V2	1023	2300	Body	48.3	11.70	46.8	-3.11%	Apr. 30, 2016
D2450V2	727	2450	Head	51	13.2	52.8	3.53%	May. 09, 2016
			Body	49.6	13.2	52.8	6.45%	May. 09, 2016
D2600V2	1005	2600	Body	53.9	13.8	55.2	2.41%	Apr. 29, 2016
D5GHzV2	1023	5200	Head	77	7.59	75.9	-1.43%	May. 10, 2016
			Body	71.9	7.59	75.9	5.56%	May. 05, 2016
		5300	Head	79.9	7.9	79	-1.13%	May. 11, 2016
			Body	75.1	7.8	78	3.86%	May. 05, 2016
		5600	Head	82.6	8.43	84.3	2.06%	May. 12, 2016
			Body	78.3	8.25	82.5	5.36%	May. 06, 2016
		5800	Head	77.3	7.51	75.1	-2.85%	May. 13, 2016
			Body	75.3	7.87	78.7	4.52%	May. 06, 2016

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V3	1015	750	Body	8.77	2.24	8.96	2.17%	Feb. 15, 2017
D835V2	4d063	835	Head	9.4	2.5	10	6.38%	Feb. 13, 2017
			Body	9.57	2.38	9.52	-0.52%	Feb. 13, 2017
D1750V2	1008	1750	Head	37.20	9.17	36.68	-1.40%	Feb. 03, 2017
			Body	37.30	9.65	38.6	3.49%	Feb. 03, 2017
D1900V2	5d027	1900	Head	38.70	9.47	37.88	-2.12%	Feb. 14, 2017
			Body	39.70	10.00	40	0.76%	Feb. 14, 2017
D2300V22	2300	1023	Body	48.1	11.7	46.8	-2.70%	Feb. 05, 2017
D2450V22	727	2450	Head	51	13.3	53.2	4.31%	Feb. 06, 2017
			Body	49.6	12.20	48.8	-1.61%	Feb. 06, 2017
D2600V22	1005	2600	Head	55.5	14	56	0.90%	Feb. 05, 2017
			Body	55.1	13.70	54.8	-0.54%	Feb. 05, 2017
D5GHzV2	1023	5200	Head	75.2	7.67	76.7	1.99%	Feb. 07, 2017
			Body	72.8	7.09	70.9	-2.61%	Feb. 07, 2017
		5300	Head	81.8	8.27	82.7	1.10%	Feb. 08, 2017
			Body	76.1	7.41	74.1	-2.63%	Feb. 08, 2017
		5600	Head	81.7	8.3	83	1.59%	Feb. 09, 2017
			Body	79.6	7.71	77.1	-3.14%	Feb. 09, 2017
		5800	Head	77.6	7.64	76.4	-1.55%	Feb. 10, 2017
			Body	75.9	7.76	77.6	2.24%	Feb. 10, 2017

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	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	Measurement Date
Head	824.2	41.556	0.899	40.938	0.898	1.49%	0.13%	May. 08, 2016
	826.6	41.545	0.899	40.912	0.917	1.52%	-2.01%	
	835.0	41.500	0.900	40.894	0.919	1.46%	-2.11%	
	836.6	41.500	0.902	40.865	0.923	1.53%	-2.36%	
	846.6	41.500	0.912	40.859	0.930	1.54%	-1.97%	
	848.8	41.500	0.915	40.857	0.933	1.55%	-1.96%	
	1712.4	40.138	1.349	39.332	1.356	2.01%	-0.51%	May. 07, 2016
	1732.4	40.107	1.361	39.321	1.368	1.96%	-0.49%	
	1750.0	40.100	1.370	39.277	1.377	2.05%	-0.51%	
	1752.6	40.075	1.373	39.265	1.379	2.02%	-0.50%	
	1850.2	40.000	1.400	39.124	1.414	2.19%	-1.03%	May. 02, 2016
	1852.4	40.000	1.400	39.088	1.415	2.28%	-1.05%	
	1880.0	40.000	1.400	39.020	1.418	2.45%	-1.28%	
	1900.0	40.000	1.400	38.968	1.419	2.58%	-1.36%	
	1907.6	40.000	1.400	38.900	1.422	2.75%	-1.55%	
	1909.8	40.000	1.400	38.896	1.423	2.76%	-1.63%	
	2412.0	39.268	1.766	38.232	1.843	2.64%	-4.35%	May. 09, 2016
	2437.0	39.223	1.788	38.142	1.871	2.76%	-4.62%	
	2450.0	39.200	1.800	38.097	1.884	2.81%	-4.67%	
	2462.0	39.185	1.813	38.041	1.898	2.92%	-4.68%	
	5180.0	36.009	4.635	36.486	4.622	-1.33%	0.27%	May. 10, 2016
	5190.0	35.997	4.645	36.433	4.635	-1.21%	0.21%	
	5200.0	35.986	4.655	36.445	4.645	-1.28%	0.21%	
	5220.0	35.963	4.676	36.361	4.669	-1.11%	0.14%	
	5230.0	35.951	4.686	36.342	4.689	-1.09%	-0.07%	
	5240.0	35.940	4.696	36.325	4.702	-1.07%	-0.13%	

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Tissue Type	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	Measurement Date
Head	5260.0	35.917	4.717	36.264	4.717	-0.97%	-0.01%	May. 11, 2016
	5270.0	35.906	4.727	36.200	4.733	-0.82%	-0.13%	
	5280.0	35.894	4.737	36.137	4.749	-0.68%	-0.25%	
	5300.0	35.871	4.758	36.145	4.768	-0.76%	-0.22%	
	5310.0	35.860	4.768	36.106	4.788	-0.69%	-0.42%	
	5500.0	35.643	4.963	35.592	5.025	0.14%	-1.26%	May. 12, 2016
	5600.0	35.529	5.065	35.276	5.154	0.71%	-1.76%	
	5610.0	35.517	5.075	35.257	5.159	0.73%	-1.65%	
	5690.0	35.426	5.157	35.018	5.262	1.15%	-2.03%	
	5700.0	35.414	5.168	34.961	5.279	1.28%	-2.16%	
	5745.0	35.363	5.214	34.855	5.333	1.44%	-2.29%	May. 13, 2016
	5785.0	35.317	5.255	34.731	5.377	1.66%	-2.33%	
	5800.0	35.300	5.270	34.700	5.398	1.70%	-2.43%	
	5825.0	35.271	5.296	34.633	5.424	1.81%	-2.42%	

Tissue Type	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	Measurement Date
Body	704.0	55.710	0.960	56.95	0.925	-2.23%	3.62%	May. 04, 2016
	707.5	55.697	0.960	56.999	0.929	-2.34%	3.24%	
	711.0	55.683	0.960	56.929	0.934	-2.24%	2.74%	
	750.0	55.531	0.963	56.475	0.976	-1.70%	-1.31%	
	824.2	55.242	0.969	55.856	1.006	-1.11%	-3.80%	May. 03, 2016
	826.6	55.233	0.969	55.817	1.008	-1.06%	-3.99%	
	829.0	55.223	0.970	55.779	1.013	-1.01%	-4.48%	
	835.0	55.200	0.970	55.704	1.018	-0.91%	-4.95%	
	836.5	55.195	0.972	55.735	1.018	-0.98%	-4.75%	
	836.6	55.195	0.972	55.733	1.018	-0.97%	-4.74%	
	844.0	55.172	0.981	55.712	1.027	-0.98%	-4.68%	
	846.6	55.164	0.984	55.653	1.03	-0.89%	-4.65%	
	848.8	55.158	0.987	55.633	1.032	-0.86%	-4.56%	

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Tissue Type	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	Measurement Date
Body	1712.4	53.531	1.465	54.263	1.404	-1.37%	4.14%	Apr. 28, 2016
	1720.0	53.511	1.469	54.257	1.413	-1.40%	3.84%	
	1732.4	53.478	1.477	54.206	1.425	-1.36%	3.54%	
	1732.5	53.478	1.477	54.204	1.425	-1.36%	3.54%	
	1745.0	53.445	1.485	54.192	1.432	-1.40%	3.59%	
	1750.0	53.432	1.488	54.169	1.438	-1.38%	3.39%	
	1752.6	53.425	1.490	54.131	1.44	-1.32%	3.36%	
	1850.2	53.300	1.520	53.858	1.526	-1.05%	-0.39%	Apr. 27, 2016
	1852.4	53.300	1.520	53.862	1.528	-1.05%	-0.53%	
	1860.0	53.300	1.520	53.813	1.532	-0.96%	-0.79%	
	1880.0	53.300	1.520	53.783	1.551	-0.91%	-2.04%	
	1900.0	53.300	1.520	53.728	1.559	-0.80%	-2.57%	
	1907.6	53.300	1.520	53.633	1.572	-0.62%	-3.42%	
	1909.8	53.300	1.520	53.683	1.577	-0.72%	-3.75%	
	2300.0	52.900	1.807	52.505	1.848	0.75%	-2.29%	Apr. 30, 2016
	2310.0	52.887	1.816	52.476	1.861	0.78%	-2.47%	
	2437.0	52.717	1.938	52.859	1.984	-0.27%	-2.40%	May. 09, 2016
	2441.0	52.712	1.941	52.823	1.989	-0.21%	-2.45%	
	2450.0	52.700	1.950	52.82	2.003	-0.23%	-2.72%	
	2462.0	52.685	1.967	52.777	2.021	-0.18%	-2.74%	Apr. 29, 2016
	2510.0	52.624	2.035	52.002	2.123	1.18%	-4.32%	
	2535.0	52.592	2.071	51.92	2.156	1.28%	-4.13%	
	2560.0	52.560	2.106	51.839	2.189	1.37%	-3.94%	
	2600.0	52.509	2.163	51.705	2.24	1.53%	-3.57%	May. 05, 2016
	5190.0	49.028	5.288	47.987	5.447	2.12%	-3.01%	
	5200.0	49.014	5.299	47.922	5.459	2.23%	-3.01%	
	5270.0	48.919	5.381	47.698	5.564	2.50%	-3.40%	May. 05, 2016
	5300.0	48.879	5.416	47.578	5.609	2.66%	-3.56%	
	5310.0	48.865	5.428	47.554	5.623	2.68%	-3.60%	May. 06, 2016
	5500.0	48.607	5.650	46.91	5.864	3.49%	-3.79%	
	5600.0	48.471	5.766	46.572	6.008	3.92%	-4.19%	
	5610.0	48.458	5.778	46.519	6.029	4.00%	-4.34%	
	5690.0	48.349	5.872	46.33	6.029	4.18%	-2.68%	
	5700.0	48.336	5.883	46.301	6.058	4.21%	-2.97%	May. 06, 2016
	5745.0	48.275	5.936	46.141	6.209	4.42%	-4.60%	
	5800.0	48.200	6.000	46.155	6.145	4.24%	-2.42%	
	5825.0	48.166	6.029	45.885	6.233	4.74%	-3.38%	

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Tissue Type	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	Measurement Date
Head	824.70	41.554	0.899	42.371	0.918	-1.97%	-2.09%	Feb,13 2017
	826.40	41.545	0.899	42.369	0.919	-1.98%	-2.19%	
	835.00	41.500	0.900	42.177	0.927	-1.63%	-3.00%	
	836.52	41.500	0.902	42.156	0.930	-1.58%	-3.15%	
	836.60	41.500	0.902	42.156	0.930	-1.58%	-3.14%	
	848.31	41.500	0.914	42.091	0.941	-1.42%	-2.92%	
	1750.00	40.079	1.371	40.626	1.338	-1.36%	2.41%	Feb,3 2017
	1752.60	40.075	1.373	40.615	1.340	-1.35%	2.37%	
	1851.25	40.000	1.400	40.288	1.418	-0.72%	-1.29%	Feb,14 2017
	1880.00	40.000	1.400	40.171	1.437	-0.43%	-2.64%	
	1900.00	40.000	1.400	40.166	1.450	-0.41%	-3.57%	
	1907.60	40.000	1.400	40.160	1.458	-0.40%	-4.14%	
	1908.75	40.000	1.400	40.042	1.462	-0.11%	-4.43%	
	1909.80	40.000	1.400	40.038	1.464	-0.09%	-4.57%	
	2437.00	39.223	1.788	38.663	1.830	1.43%	-2.32%	Feb,6 2017
	2450.00	39.200	1.800	38.654	1.837	1.39%	-2.06%	
	2462.00	39.185	1.813	38.645	1.845	1.38%	-1.76%	
	5180.00	36.009	4.635	37.421	4.644	-3.92%	-0.20%	Feb,7 2017
	5190.00	35.997	4.645	37.378	4.664	-3.84%	-0.41%	
	5200.00	35.986	4.655	37.359	4.670	-3.82%	-0.32%	
	5280.00	35.894	4.737	37.091	4.776	-3.33%	-0.82%	Feb,8 2017
	5300.00	35.871	4.758	37.062	4.798	-3.32%	-0.85%	
	5310.00	35.860	4.768	37.025	4.809	-3.25%	-0.87%	
	5600.00	35.529	5.065	36.193	5.186	-1.87%	-2.39%	Feb,9 2017
	5700.00	35.414	5.168	35.925	5.318	-1.44%	-2.91%	
	5745.00	35.363	5.214	35.792	5.367	-1.21%	-2.94%	Feb,10 2017
	5800.00	35.300	5.270	35.620	5.433	-0.91%	-3.09%	
	5825.00	35.271	5.296	35.562	5.466	-0.82%	-3.22%	

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Tissue Type	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	Measurement Date
Body	711.00	55.683	0.960	57.672	0.932	-3.57%	2.95%	Feb,15 2017
	750.00	55.531	0.963	57.335	0.975	-3.25%	-1.21%	
	782.00	55.406	0.966	57.038	1.002	-2.94%	-3.74%	
	824.70	55.240	0.969	57.245	0.989	-3.63%	-2.04%	Feb,13 2017
	835.00	55.200	0.970	57.407	0.999	-4.00%	-2.99%	
	836.52	55.195	0.972	57.412	1.003	-4.02%	-3.20%	
	836.60	55.195	0.972	57.385	1.007	-3.97%	-3.60%	
	844.00	55.172	0.981	57.385	1.007	-4.01%	-2.64%	
	846.60	55.164	0.984	57.342	1.012	-3.95%	-2.82%	
	848.31	55.159	0.986	57.327	1.013	-3.93%	-2.70%	
	848.80	55.158	0.987	57.283	1.013	-3.85%	-2.64%	
	1720.00	53.511	1.469	53.663	1.408	-0.28%	4.18%	Feb,3 2017
	1732.40	53.478	1.477	53.642	1.419	-0.31%	3.95%	
	1750.00	53.432	1.488	53.595	1.437	-0.31%	3.45%	
	1850.20	53.300	1.520	53.274	1.538	0.05%	-1.18%	Feb,14 2017
	1851.25	53.300	1.520	53.272	1.539	0.05%	-1.25%	
	1880.00	53.300	1.520	53.191	1.568	0.20%	-3.16%	
	1900.00	53.300	1.520	53.128	1.586	0.32%	-4.34%	
	1907.60	53.300	1.520	53.074	1.591	0.42%	-4.67%	
	1908.75	53.300	1.520	53.072	1.593	0.43%	-4.80%	
	1909.90	53.300	1.520	53.062	1.594	0.45%	-4.87%	
	2300.00	52.900	1.807	52.505	1.848	0.75%	-2.29%	Feb,5 2017
	2310.00	52.887	1.816	52.476	1.861	0.78%	-2.47%	
	2437.00	52.717	1.938	51.721	1.983	1.89%	-2.34%	Feb,6 2017
	2450.00	52.700	1.950	51.693	2.000	1.91%	-2.56%	
	2462.00	52.685	1.967	51.653	2.015	1.96%	-2.44%	Feb,5 2017
	2510.00	52.624	2.035	51.983	2.124	1.22%	-4.37%	
	2600.00	52.509	2.163	51.687	2.240	1.57%	-3.57%	Feb,7 2017
	5190.00	49.028	5.288	49.172	5.183	-0.29%	1.98%	
	5200.00	49.014	5.299	49.153	5.184	-0.28%	2.18%	Feb,8 2017
	5270.00	48.919	5.381	48.892	5.299	0.06%	1.52%	
	5300.00	48.879	5.416	48.841	5.341	0.08%	1.39%	
	5310.00	48.865	5.428	48.815	5.359	0.10%	1.27%	Feb,9 2017
	5500.00	48.607	5.650	48.205	5.655	0.83%	-0.09%	
	5600.00	48.471	5.766	47.904	5.833	1.17%	-1.15%	
	5610.00	48.458	5.778	47.842	5.832	1.27%	-0.93%	
	5700.00	48.336	5.883	47.586	5.998	1.55%	-1.95%	Feb,10 2017
	5745.00	48.275	5.936	47.525	6.057	1.55%	-2.04%	
	5800.00	48.200	6.000	47.271	6.150	1.93%	-2.50%	
	5825.00	48.166	6.029	47.215	6.192	1.97%	-2.70%	

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	Body	—	631.68 g	11.72 g	1.2 g	—	600 g	1.0L(Kg)
850	Head	—	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)
	Body	—	631.68 g	11.72 g	1.2 g	—	600 g	1.0L(Kg)
1750	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
	Body	300.67 g	716.56 g	4.0 g	—	—	—	1.0L(Kg)
1900	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
	Body	300.67 g	716.56 g	4.0 g	—	—	—	1.0L(Kg)
2300	Body	301.7ml	698.3ml	—	—	—	—	1.0L(Kg)
2450	Head	550ml	450ml	—	—	—	—	1.0L(Kg)
	Body	301.7ml	698.3ml	—	—	—	—	1.0L(Kg)
2600	Body	301.7ml	698.3ml	—	—	—	—	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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