SAR TEST REPORT

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

Equipment Under Test	Tablet PC
Brand Name	hp
Model No.	HSTNN-Q93C
Company Name	Hewlett-Packard Company
Company Address	1501 Page Mill Road M/S1419 Palo Alto, CA 94304 United States
Standards	IEEE /ANSI C95.1 , C95.3, IEEE 1528 2003, KDB248227D01v01r02, KDB616217D04v01r01, KDB865664D01v01r03, KDB865664D02v01r01, KDB941225D01v03,KDB941225D05v02r03, KDB447498D01v05r02
FCC ID	B94HNQ93CSPNAC
Date of Receipt	Mar. 16, 2015
Date of Test(s)	Apr. 03, 2015 ~ Apr. 17, 2015
Date of Issue	May. 14, 2015

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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronic & Communication Laboratory or testing done by SGS Taiwan Electronic & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronic & Communication Laboratory in writing.

Signed on behalf of SGS

Sr. Engineer	**Sr. Engineer**
Kevin Li	John Yeh
Kevin Li	**John Yeh**
Date: May 14, 2015	**Date: May 14, 2015**

Version

Report Number	Revision	Date	Memo
E5/2015/30002	00	2015/05/04	Initial creation of test report.
E5/2015/30002	01	2015/05/14	1st modification

This test report contains a reference to the previous version test report that it replaces.

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Contents

1. General Information

1.1 Testing Laboratory

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1.2 Details of Applicant

Company Name	Hewlett-Packard Company
Company Address	1501 Page Mill Road M/S1419 Palo Alto, CA 94304 United States

1.3 Description of EUT

Equipment Under Test	Tablet PC	
Brand Name	hp	
Model No.	HSTNN-Q93C	
IMEI	35933905009353	
Mode of Operation	☒GPRS ☒EDGE ☒WCDMA ☒HSDPA ☒HSUPA ☒LTE ☒CDMA 1xRTT ☒CDMA 1x EVDO Rev.0/ Rev.A ☒WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) ☒Bluetooth	
Duty Cycle	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)
	WCDMA	1
	LTE	1
	CDMA 1xRTT/ EVDO Rev.0/ Rev. A	1
	WLAN802.11 a/b/g/n(20M/40M)/ ac(20M/40M/80M)	1
	Bluetooth	1
TX Frequency Range (MHz)	GPRS850	824.2 — 848.8
	GPRS1900	1850.2 — 1909.8
	WCDMA Band II	1852.4 — 1907.6
	WCDMA Band IV	1712.4 — 1752.6
	WCDMA Band V	826.4 — 846.6
	LTE FDD Band II	1850 — 1910
	LTE FDD Band IV	1710 — 1755

TX Frequency Range (MHz)	LTE FDD Band V	824	—	849
	LTE FDD Band XIII	777	—	787
	LTE FDD Band XVII	704	—	716
	LTE FDD Band XXV	1850	—	1915
	CDMA (BC0)	824.7	—	848.31
	CDMA (BC1)	1851.25	—	1908.75
	WLAN802.11 b/g/n(20M)	2412	—	2462
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	—	5240
	WLAN802.11 n(40M)/ac(40M) 5.2G	5190	—	5230
	WLAN802.11 ac(80M) 5.2G	5210		
	WLAN802.11 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(20M) 5.6G	5500	—	5700
	WLAN802.11 ac(20M) 5.6G	5500	—	5720
	WLAN802.11 n(40M) 5.6G	5510	—	5670
	WLAN802.11 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	5755	—	5795
	WLAN802.11 ac(80M) 5.8G	5775		
	Bluetooth	2402	—	2480

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Channel Number (ARFCN)	GPRS850	128	—	251
	GPRS1900	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 XIII	23205	—	23255
	LTE FDD Band XVII	23755	—	23825
	LTE FDD Band XXV	26047	—	26683
	CDMA (BC0)	1013	—	777
	CDMA (BC1)	25	—	1175
	WLAN802.11 b/g/n(20M)	1	—	11
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	36	—	48
	WLAN802.11 n(40M)/ac(40M) 5.2G	38	—	46
	WLAN802.11 ac(80M) 5.2G		42	
	WLAN802.11 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(20M) 5.6G	100	—	140
	WLAN802.11 ac(20M) 5.6G	100	—	144
	WLAN802.11 n(40M) 5.6G	102	—	134
	WLAN802.11 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	151	—	159
	WLAN802.11 ac(80M) 5.8G		155	
	Bluetooth	0	—	78

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Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
GPRS 850_2nd battery	1.35	1.414	251	Top side
GRPS 1900	0.794	0.912	661	Back side
WCDMA Band II	0.998	1.007	9262	Back side
WCDMA Band IV	1.07	1.08	1513	Back side
WCDMA Band V	0.991	1.197	4233	Back side
LTE FDD Band II	0.79	0.81	18700	Back side
LTE FDD Band IV	1.12	1.34	20300	Back side
LTE FDD Band V	1.08	1.42	20450	Back side
LTE FDD Band XIII	1.24	1.404	23230	Back side
LTE FDD Band XVII	1.03	1.035	23800	Back side
LTE FDD Band XXV	0.933	0.97	26140	Back side
CDMA (BC0)	1.36	1.379	777	Back side
CDMA (BC1)	1	1.021	25	Back side

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Max. SAR (1 g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Main	WLAN802.11 b	0.705	0.737	11	Back side
	WLAN802.11 g	0.61	0.636	6	Back side
	WLAN802.11 n(20M) _2nd battery	0.763	0.814	6	Back side
	WLAN802.11 n(40M)	0.746	0.787	6	Back side
	WLAN802.11 a 5.2G_2nd battery	0.536	0.56	44	Back side
	WLAN802.11 n(40M) 5.2G	0.558	0.591	46	Back side
	WLAN802.11 ac(40M) 5.2G	0.52	0.545	46	Back side
	WLAN802.11 ac(80M) 5.2G	0.511	0.554	42	Back side
	WLAN802.11 a 5.3G_2nd battery	0.644	0.67	60	Back side
	WLAN802.11 n(40M) 5.3G	0.572	0.607	62	Back side
	WLAN802.11 ac(40M) 5.3G	0.483	0.503	54	Back side
	WLAN802.11 ac(80M) 5.3G	0.593	0.659	58	Back side
	WLAN802.11 a 5.6G	0.738	0.771	140	Back side
	WLAN802.11 n(40M) 5.6G	0.692	0.731	134	Back side
	WLAN802.11 ac(20M) 5.6G	0.704	0.763	144	Back side
	WLAN802.11 ac(40M) 5.6G	0.68	0.725	102	Back side
	WLAN802.11 ac(80M) 5.6G	0.644	0.716	138	Back side
	WLAN802.11 a 5.8G	0.712	0.732	153	Back side
	WLAN802.11 n(40M) 5.8G	0.669	0.705	151	Back side
	WLAN802.11 ac(40M) 5.8G	0.674	0.691	151	Back side
	WLAN802.11 ac(80M) 5.8G	0.661	0.721	155	Back side

Max. SAR (1 g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Aux	WLAN802.11 b	0.771	0.843	6	Back side
	WLAN802.11 g	0.993	1.069	6	Back side
	WLAN802.11 n(20M)	0.923	1.003	6	Back side
	WLAN802.11 n(40M)	0.918	0.995	6	Back side
	WLAN802.11 a 5.2G	0.902	0.921	44	Back side
	WLAN802.11 n(40M) 5.2G	0.822	0.859	46	Back side
	WLAN802.11 ac(40M) 5.2G	0.805	0.835	46	Back side
	WLAN802.11 ac(80M) 5.2G	0.819	0.874	42	Back side
	WLAN802.11 a 5.3G	1.01	1.031	60	Back side
	WLAN802.11 n(40M) 5.3G	0.937	0.993	62	Back side
	WLAN802.11 ac(40M) 5.3G	0.7	0.723	54	Back side
	WLAN802.11 ac(80M) 5.3G	0.768	0.817	58	Back side
	WLAN802.11 a 5.6G	1.32	1.354	140	Back side
	WLAN802.11 n(40M) 5.6G	1.23	1.256	134	Back side
	WLAN802.11 ac(20M) 5.6G	1.27	1.348	144	Back side
	WLAN802.11 ac(40M) 5.6G	1.31	1.337	134	Back side
	WLAN802.11 ac(80M) 5.6G	1.25	1.342	138	Back side
	WLAN802.11 a 5.8G	1.46	1.477	157	Back side
	WLAN802.11 n(40M) 5.8G	1.43	1.47	151	Back side
	WLAN802.11 ac(40M) 5.8G	1.29	1.323	159	Back side
	WLAN802.11 ac(80M) 5.8G	1.38	1.432	155	Back side

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GPRS/EDGE conducted power table:

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	33	31	29
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850 (GMSK)	824.2	128	32.80	32.60	29.30	28.60
	836.6	190	32.70	32.60	29.50	28.60
	848.8	251	32.90	32.80	29.60	29.00
Source-based time average power						
GPRS 850 (GMSK)	824.2	128	23.77	26.58	25.04	25.59
	836.6	190	23.67	26.58	25.24	25.59
	848.8	251	23.87	26.78	25.34	25.99
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)			28	27	27	25
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS5)	824.2	128	26.60	26.00	25.80	23.80
	836.6	190	26.50	25.80	25.60	23.60
	848.8	251	26.90	26.10	25.90	23.80
Source-based time average power						
EDGE 850 (MCS5)	824.2	128	17.57	19.98	21.54	20.79
	836.6	190	17.47	19.78	21.34	20.59
	848.8	251	17.87	20.08	21.64	20.79
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)			31	30.5	28	26
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	30.20	30.10	27.10	25.10
	1880	661	29.70	29.90	27.10	24.90
	1909.8	810	30.10	29.90	27.40	25.20
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	21.17	24.08	22.84	22.09
	1880	661	20.67	23.88	22.84	21.89
	1909.8	810	21.07	23.88	23.14	22.19
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	26	26	24
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS5)	1850.2	512	25.80	25.00	25.00	22.80
	1880	661	25.50	24.80	24.70	22.60
	1909.8	810	25.70	25.10	25.00	22.90
Source-based time average power						
EDGE 1900 (MCS5)	1850.2	512	16.77	18.98	20.74	19.79
	1880	661	16.47	18.78	20.44	19.59
	1909.8	810	16.67	19.08	20.74	19.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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GPRS / EDGE conducted power table (Reduced power):

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			25.5	25	23	21
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850 (GMSK)	824.2	128	25.40	24.60	22.40	20.20
	836.6	190	25.30	24.50	22.50	20.30
	848.8	251	25.40	24.90	22.80	20.60
Source-based time average power						
GPRS 850 (GMSK)	824.2	128	16.37	18.58	18.14	17.19
	836.6	190	16.27	18.48	18.24	17.29
	848.8	251	16.37	18.88	18.54	17.59
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)			23	22	22	20
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS5)	824.2	128	22.50	21.20	21.10	19.30
	836.6	190	22.30	21.00	21.00	19.80
	848.8	251	22.60	21.40	20.20	19.90
Source-based time average power						
EDGE 850 (MCS5)	824.2	128	13.47	15.18	16.84	16.29
	836.6	190	13.27	14.98	16.74	16.79
	848.8	251	13.57	15.38	15.94	16.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			20.5	20	17.5	15.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	20.00	19.40	16.80	15.00
	1880	661	19.90	19.40	16.70	14.90
	1909.8	810	20.20	19.60	17.10	15.20
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	10.97	13.38	12.54	11.99
	1880	661	10.87	13.38	12.44	11.89
	1909.8	810	11.17	13.58	12.84	12.19
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)			18	17	17	15
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS5)	1850.2	512	17.80	16.80	16.50	14.70
	1880	661	17.70	16.70	16.60	14.50
	1909.8	810	17.90	17.00	16.90	14.90
Source-based time average power						
EDGE 1900 (MCS5)	1850.2	512	8.77	10.78	12.24	11.69
	1880	661	8.67	10.68	12.34	11.49
	1909.8	810	8.87	10.98	12.64	11.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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)				
				SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5
WCDMA Band II Rel 7	9262	24.5	23.55	22.73	22.43	22.25	22.32	23.47	21.52	21.53	21.65	22.04
	9400	24.5	23.63	22.55	22.49	22.1	22.11	23.61	21.68	21.63	21.73	21.92
	9538	24.5	23.98	22.92	22.83	22.39	22.51	23.92	21.96	22.00	22	22.25
WCDMA Band IV Rel 7	1312	24.5	23.58	22.53	22.46	22.05	22.12	23.50	21.55	21.56	21.68	21.86
	1412	24.5	23.37	22.35	22.23	21.9	21.91	23.35	21.42	21.37	21.47	21.79
	1513	24.5	23.65	22.61	22.50	22.08	22.2	23.59	21.63	21.67	21.67	22.00
WCDMA Band V Rel 7	4132	24.5	23.96	22.88	22.89	22.42	22.47	23.92	21.98	21.96	22.03	22.17
	4183	24.5	24.39	23.19	23.28	22.71	22.75	24.32	22.4	22.38	22.46	22.48
	4233	24.5	23.90	22.85	22.77	22.36	22.42	23.82	21.86	21.90	21.94	22.18

HSDPA

SUB-TEST	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} *(Note1, 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

HSUPA

SUB-TEST	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} *(Note1)*	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_{ed}1: 47/15 β_{ed}2: 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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WCDMA Band II / Band IV / Band V - HSDPA / HSUPA conducted power table (Reduced power) :

Band	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Rel99 AV(dBm)	HSDPA mode AV(dBm)				HSUPA mode AV(dBm)				
				SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5
WCDMA Band II Rel 7	9262	13	12.96	11.89	11.84	11.41	11.48	12.88	10.93	10.94	11.06	11.42
	9400	13	11.48	10.48	10.34	10.03	10.04	11.46	9.53	9.48	9.58	10.01
	9538	13	12.09	11.08	10.94	10.55	10.67	12.03	10.07	10.11	10.11	10.65
WCDMA Band IV Rel 7	1312	14.5	13.49	12.35	12.37	11.87	11.94	13.41	11.46	11.47	11.59	12.15
	1412	14.5	13.80	12.73	12.66	12.28	12.29	13.78	11.85	11.80	11.9	12.25
	1513	14.5	14.46	13.36	13.31	12.83	12.95	14.40	12.44	12.48	12.48	12.89
WCDMA Band V Rel 7	4132	19.5	18.70	17.71	17.63	17.25	17.3	18.66	16.72	16.70	16.77	17.13
	4183	19.5	19.17	18.22	18.06	17.74	17.78	19.10	17.18	17.16	17.24	17.68
	4233	19.5	18.68	17.69	17.55	17.2	17.26	18.60	16.64	16.68	16.72	17.21

HSDPA

SUB-TEST	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} *(Note1, 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

HSUPA

SUB-TEST	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} *(Note1)*	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	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 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

LTE FDD Band II / Band IV / Band V / Band XIII / Band XVII / Band XXV power table:

FDD Band 2 (Full Power)								
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	23.44	24	0
				1880	18900	23.02	24	0
				1900	19100	23.01	24	0
			50	1860	18700	23.22	24	0
				1880	18900	23.25	24	0
				1900	19100	22.99	24	0
			99	1860	18700	23.04	24	0
				1880	18900	22.75	24	0
				1900	19100	23.73	24	0
		50 RB	0	1860	18700	22.17	23	0-1
				1880	18900	21.79	23	0-1
				1900	19100	21.73	23	0-1
			25	1860	18700	21.88	23	0-1
				1880	18900	21.90	23	0-1
				1900	19100	21.80	23	0-1
			50	1860	18700	21.82	23	0-1
				1880	18900	21.99	23	0-1
				1900	19100	22.03	23	0-1
		100RB		1860	18700	22.13	23	0-1
				1880	18900	21.81	23	0-1
				1900	19100	21.91	23	0-1
	16-QAM	1 RB	0	1860	18700	22.60	23	0-1
				1880	18900	22.24	23	0-1
				1900	19100	22.01	23	0-1
			50	1860	18700	22.57	23	0-1
				1880	18900	22.09	23	0-1
				1900	19100	22.17	23	0-1
			99	1860	18700	21.84	23	0-1
				1880	18900	22.28	23	0-1
				1900	19100	22.16	23	0-1
		50 RB	0	1860	18700	21.11	22	0-2
				1880	18900	20.76	22	0-2
				1900	19100	20.62	22	0-2
			25	1860	18700	21.16	22	0-2
				1880	18900	20.89	22	0-2
				1900	19100	20.81	22	0-2
			50	1860	18700	20.73	22	0-2
				1880	18900	20.83	22	0-2
				1900	19100	21.07	22	0-2
		100RB		1860	18700	21.08	22	0-2
				1880	18900	20.80	22	0-2
				1900	19100	20.94	22	0-2

FDD Band 2 (Full Power)								
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	23.32	24	0
				1880	18900	23.02	24	0
				1902.5	19125	22.28	24	0
			36	1857.5	18675	22.87	24	0
				1880	18900	23.12	24	0
				1902.5	19125	23.17	24	0
			74	1857.5	18675	23.10	24	0
				1880	18900	23.24	24	0
				1902.5	19125	23.51	24	0
		36 RB	0	1857.5	18675	21.91	23	0-1
				1880	18900	21.92	23	0-1
				1902.5	19125	21.74	23	0-1
			18	1857.5	18675	21.97	23	0-1
				1880	18900	21.80	23	0-1
				1902.5	19125	22.19	23	0-1
			37	1857.5	18675	21.84	23	0-1
				1880	18900	21.94	23	0-1
				1902.5	19125	22.12	23	0-1
		75RB		1857.5	18675	21.89	23	0-1
				1880	18900	21.73	23	0-1
				1902.5	19125	22.05	23	0-1
	16-QAM	1 RB	0	1857.5	18675	22.10	23	0-1
				1880	18900	21.95	23	0-1
				1902.5	19125	21.74	23	0-1
			36	1857.5	18675	22.12	23	0-1
				1880	18900	22.41	23	0-1
				1902.5	19125	21.85	23	0-1
			74	1857.5	18675	21.99	23	0-1
				1880	18900	21.86	23	0-1
				1902.5	19125	22.68	23	0-1
		36 RB	0	1857.5	18675	20.93	22	0-2
				1880	18900	20.94	22	0-2
				1902.5	19125	20.82	22	0-2
			18	1857.5	18675	21.04	22	0-2
				1880	18900	20.90	22	0-2
				1902.5	19125	21.27	22	0-2
			37	1857.5	18675	20.91	22	0-2
				1880	18900	20.94	22	0-2
				1902.5	19125	21.19	22	0-2
		75RB		1857.5	18675	20.87	22	0-2
				1880	18900	20.69	22	0-2
				1902.5	19125	20.88	22	0-2

FDD Band 2 (Full Power)								
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	23.39	24	0
				1880	18900	22.99	24	0
				1905	19150	22.81	24	0
			25	1855	18650	23.32	24	0
				1880	18900	23.10	24	0
				1905	19150	23.63	24	0
			49	1855	18650	23.04	24	0
				1880	18900	23.03	24	0
				1905	19150	23.44	24	0
		25 RB	0	1855	18650	22.02	23	0-1
				1880	18900	22.06	23	0-1
				1905	19150	22.11	23	0-1
			12	1855	18650	22.06	23	0-1
				1880	18900	22.00	23	0-1
				1905	19150	22.20	23	0-1
			25	1855	18650	22.06	23	0-1
				1880	18900	21.96	23	0-1
				1905	19150	22.17	23	0-1
		50RB		1855	18650	21.99	23	0-1
				1880	18900	21.78	23	0-1
				1905	19150	21.96	23	0-1
	16-QAM	1 RB	0	1855	18650	22.26	23	0-1
				1880	18900	22.37	23	0-1
				1905	19150	21.86	23	0-1
			25	1855	18650	22.42	23	0-1
				1880	18900	22.20	23	0-1
				1905	19150	22.37	23	0-1
			49	1855	18650	22.10	23	0-1
				1880	18900	22.24	23	0-1
				1905	19150	22.29	23	0-1
		25 RB	0	1855	18650	21.04	22	0-2
				1880	18900	21.02	22	0-2
				1905	19150	21.24	22	0-2
			12	1855	18650	21.15	22	0-2
				1880	18900	20.94	22	0-2
				1905	19150	21.24	22	0-2
			25	1855	18650	21.10	22	0-2
				1880	18900	20.93	22	0-2
				1905	19150	21.20	22	0-2
		50RB		1855	18650	20.85	22	0-2
				1880	18900	20.75	22	0-2
				1905	19150	21.07	22	0-2

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FDD Band 2 (Full Power)								
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	23.26	24	0
				1880	18900	23.05	24	0
				1907.5	19175	23.43	24	0
			12	1852.5	18625	23.31	24	0
				1880	18900	23.11	24	0
				1907.5	19175	23.08	24	0
			24	1852.5	18625	23.23	24	0
				1880	18900	23.13	24	0
				1907.5	19175	23.28	24	0
		12 RB	0	1852.5	18625	22.26	23	0-1
				1880	18900	22.10	23	0-1
				1907.5	19175	22.28	23	0-1
			6	1852.5	18625	22.26	23	0-1
				1880	18900	22.09	23	0-1
				1907.5	19175	22.23	23	0-1
			13	1852.5	18625	22.20	23	0-1
				1880	18900	22.10	23	0-1
				1907.5	19175	22.32	23	0-1
		25RB		1852.5	18625	22.02	23	0-1
				1880	18900	21.92	23	0-1
				1907.5	19175	22.02	23	0-1
	16-QAM	1 RB	0	1852.5	18625	22.54	23	0-1
				1880	18900	22.00	23	0-1
				1907.5	19175	22.14	23	0-1
			12	1852.5	18625	21.78	23	0-1
				1880	18900	22.06	23	0-1
				1907.5	19175	22.45	23	0-1
			24	1852.5	18625	21.97	23	0-1
				1880	18900	22.29	23	0-1
				1907.5	19175	22.15	23	0-1
		12 RB	0	1852.5	18625	21.36	22	0-2
				1880	18900	21.09	22	0-2
				1907.5	19175	21.43	22	0-2
			6	1852.5	18625	21.36	22	0-2
				1880	18900	21.25	22	0-2
				1907.5	19175	21.23	22	0-2
			13	1852.5	18625	21.19	22	0-2
				1880	18900	21.15	22	0-2
				1907.5	19175	21.44	22	0-2
		25RB		1852.5	18625	21.11	22	0-2
				1880	18900	20.89	22	0-2
				1907.5	19175	20.98	22	0-2

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FDD Band 2 (Full Power)								
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	23.28	24	0
				1880	18900	23.07	24	0
				1908.5	19185	23.46	24	0
			7	1851.5	18615	22.81	24	0
				1880	18900	23.05	24	0
				1908.5	19185	23.56	24	0
			14	1851.5	18615	23.19	24	0
				1880	18900	23.00	24	0
				1908.5	19185	23.35	24	0
		8 RB	0	1851.5	18615	22.30	23	0-1
				1880	18900	22.13	23	0-1
				1908.5	19185	22.26	23	0-1
			4	1851.5	18615	22.32	23	0-1
				1880	18900	22.10	23	0-1
				1908.5	19185	22.23	23	0-1
			7	1851.5	18615	22.21	23	0-1
				1880	18900	22.11	23	0-1
				1908.5	19185	22.33	23	0-1
		15RB		1851.5	18615	22.15	23	0-1
				1880	18900	22.03	23	0-1
				1908.5	19185	22.41	23	0-1
	16-QAM	1 RB	0	1851.5	18615	22.37	23	0-1
				1880	18900	21.93	23	0-1
				1908.5	19185	22.00	23	0-1
			7	1851.5	18615	22.00	23	0-1
				1880	18900	22.05	23	0-1
				1908.5	19185	22.25	23	0-1
			14	1851.5	18615	22.53	23	0-1
				1880	18900	22.31	23	0-1
				1908.5	19185	22.28	23	0-1
		8 RB	0	1851.5	18615	21.25	22	0-2
				1880	18900	21.09	22	0-2
				1908.5	19185	21.27	22	0-2
			4	1851.5	18615	21.18	22	0-2
				1880	18900	21.05	22	0-2
				1908.5	19185	21.23	22	0-2
			7	1851.5	18615	21.26	22	0-2
				1880	18900	21.04	22	0-2
				1908.5	19185	21.39	22	0-2
		15RB		1851.5	18615	21.15	22	0-2
				1880	18900	21.04	22	0-2
				1908.5	19185	21.31	22	0-2

FDD Band 2 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1850.7	18607	22.90	24	0
				1880	18900	22.54	24	0
				1909.3	19193	22.90	24	0
			2	1850.7	18607	22.87	24	0
				1880	18900	22.61	24	0
				1909.3	19193	22.85	24	0
			5	1850.7	18607	22.83	24	0
				1880	18900	22.52	24	0
				1909.3	19193	22.72	24	0
		3 RB	0	1850.7	18607	22.86	23	0-1
				1880	18900	22.54	23	0-1
				1909.3	19193	22.87	23	0-1
			2	1850.7	18607	22.85	23	0-1
				1880	18900	22.56	23	0-1
				1909.3	19193	22.76	23	0-1
			3	1850.7	18607	22.28	23	0-1
				1880	18900	22.50	23	0-1
				1909.3	19193	22.77	23	0-1
		6RB		1850.7	18607	21.80	23	0-1
				1880	18900	21.61	23	0-1
				1909.3	19193	21.83	23	0-1
	16-QAM	1 RB	0	1850.7	18607	21.54	23	0-1
				1880	18900	21.62	23	0-1
				1909.3	19193	21.83	23	0-1
			2	1850.7	18607	21.69	23	0-1
				1880	18900	21.50	23	0-1
				1909.3	19193	21.93	23	0-1
			5	1850.7	18607	21.24	23	0-1
				1880	18900	21.48	23	0-1
				1909.3	19193	22.14	23	0-1
		3 RB	0	1850.7	18607	21.95	22	0-2
				1880	18900	21.60	22	0-2
				1909.3	19193	21.91	22	0-2
			2	1850.7	18607	21.97	22	0-2
				1880	18900	21.69	22	0-2
				1909.3	19193	21.87	22	0-2
			3	1850.7	18607	21.94	22	0-2
				1880	18900	21.69	22	0-2
				1909.3	19193	21.86	22	0-2
		6RB		1850.7	18607	20.90	22	0-2
				1880	18900	20.72	22	0-2
				1909.3	19193	20.87	22	0-2

FDD Band 2 (Reduced Power)								
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	12.39	12.5	0
				1880	18900	11.82	12.5	0
				1900	19100	11.62	12.5	0
			50	1860	18700	12.06	12.5	0
				1880	18900	12.09	12.5	0
				1900	19100	11.90	12.5	0
			99	1860	18700	11.95	12.5	0
				1880	18900	11.84	12.5	0
				1900	19100	11.81	12.5	0
		50 RB	0	1860	18700	12.16	12.5	0-1
				1880	18900	11.95	12.5	0-1
				1900	19100	11.75	12.5	0-1
			25	1860	18700	12.01	12.5	0-1
				1880	18900	12.04	12.5	0-1
				1900	19100	11.86	12.5	0-1
			50	1860	18700	11.91	12.5	0-1
				1880	18900	11.89	12.5	0-1
				1900	19100	12.04	12.5	0-1
		100RB		1860	18700	12.07	12.5	0-1
				1880	18900	11.95	12.5	0-1
				1900	19100	11.96	12.5	0-1
	16-QAM	1 RB	0	1860	18700	12.07	12.5	0-1
				1880	18900	12.01	12.5	0-1
				1900	19100	11.65	12.5	0-1
			50	1860	18700	12.02	12.5	0-1
				1880	18900	11.95	12.5	0-1
				1900	19100	11.71	12.5	0-1
			99	1860	18700	12.04	12.5	0-1
				1880	18900	11.71	12.5	0-1
				1900	19100	11.93	12.5	0-1
		50 RB	0	1860	18700	11.87	12.5	0-2
				1880	18900	11.68	12.5	0-2
				1900	19100	11.58	12.5	0-2
			25	1860	18700	11.70	12.5	0-2
				1880	18900	11.67	12.5	0-2
				1900	19100	11.67	12.5	0-2
			50	1860	18700	11.54	12.5	0-2
				1880	18900	11.67	12.5	0-2
				1900	19100	11.66	12.5	0-2
		100RB		1860	18700	11.70	12.5	0-2
				1880	18900	11.66	12.5	0-2
				1900	19100	11.64	12.5	0-2

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FDD Band 2 (Reduced Power)								
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	12.36	12.5	0
				1880	18900	11.93	12.5	0
				1902.5	19125	11.65	12.5	0
			36	1857.5	18675	12.04	12.5	0
				1880	18900	12.14	12.5	0
				1902.5	19125	12.02	12.5	0
			74	1857.5	18675	11.89	12.5	0
				1880	18900	11.98	12.5	0
				1902.5	19125	11.79	12.5	0
		36 RB	0	1857.5	18675	12.02	12.5	0-1
				1880	18900	11.95	12.5	0-1
				1902.5	19125	11.99	12.5	0-1
			18	1857.5	18675	12.08	12.5	0-1
				1880	18900	12.06	12.5	0-1
				1902.5	19125	12.01	12.5	0-1
			37	1857.5	18675	12.02	12.5	0-1
				1880	18900	12.04	12.5	0-1
				1902.5	19125	12.19	12.5	0-1
		75RB		1857.5	18675	12.04	12.5	0-1
				1880	18900	12.05	12.5	0-1
				1902.5	19125	12.05	12.5	0-1
	16-QAM	1 RB	0	1857.5	18675	11.95	12.5	0-1
				1880	18900	11.85	12.5	0-1
				1902.5	19125	11.67	12.5	0-1
			36	1857.5	18675	11.95	12.5	0-1
				1880	18900	11.77	12.5	0-1
				1902.5	19125	11.82	12.5	0-1
			74	1857.5	18675	11.92	12.5	0-1
				1880	18900	11.68	12.5	0-1
				1902.5	19125	11.57	12.5	0-1
		36 RB	0	1857.5	18675	11.91	12.5	0-2
				1880	18900	11.79	12.5	0-2
				1902.5	19125	11.74	12.5	0-2
			18	1857.5	18675	11.77	12.5	0-2
				1880	18900	11.76	12.5	0-2
				1902.5	19125	11.76	12.5	0-2
			37	1857.5	18675	11.70	12.5	0-2
				1880	18900	11.74	12.5	0-2
				1902.5	19125	11.86	12.5	0-2
		75RB		1857.5	18675	11.67	12.5	0-2
				1880	18900	11.78	12.5	0-2
				1902.5	19125	11.66	12.5	0-2

FDD Band 2 (Reduced Power)								
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	11.91	12.5	0
				1880	18900	11.49	12.5	0
				1905	19150	11.64	12.5	0
			25	1855	18650	11.56	12.5	0
				1880	18900	11.53	12.5	0
				1905	19150	11.94	12.5	0
			49	1855	18650	11.47	12.5	0
				1880	18900	11.48	12.5	0
				1905	19150	11.14	12.5	0
		25 RB	0	1855	18650	11.75	12.5	0-1
				1880	18900	11.64	12.5	0-1
				1905	19150	11.83	12.5	0-1
			12	1855	18650	11.63	12.5	0-1
				1880	18900	11.62	12.5	0-1
				1905	19150	11.86	12.5	0-1
			25	1855	18650	11.59	12.5	0-1
				1880	18900	11.54	12.5	0-1
				1905	19150	11.60	12.5	0-1
		50RB		1855	18650	11.61	12.5	0-1
				1880	18900	11.60	12.5	0-1
				1905	19150	11.71	12.5	0-1
	16-QAM	1 RB	0	1855	18650	12.12	12.5	0-1
				1880	18900	11.74	12.5	0-1
				1905	19150	11.91	12.5	0-1
			25	1855	18650	11.86	12.5	0-1
				1880	18900	11.69	12.5	0-1
				1905	19150	12.08	12.5	0-1
			49	1855	18650	11.77	12.5	0-1
				1880	18900	11.33	12.5	0-1
				1905	19150	10.97	12.5	0-1
		25 RB	0	1855	18650	11.44	12.5	0-2
				1880	18900	11.24	12.5	0-2
				1905	19150	11.41	12.5	0-2
			12	1855	18650	11.38	12.5	0-2
				1880	18900	11.21	12.5	0-2
				1905	19150	11.40	12.5	0-2
			25	1855	18650	11.34	12.5	0-2
				1880	18900	11.15	12.5	0-2
				1905	19150	11.21	12.5	0-2
		50RB		1855	18650	11.33	12.5	0-2
				1880	18900	11.16	12.5	0-2
				1905	19150	11.27	12.5	0-2

FDD Band 2 (Reduced Power)								
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	11.89	12.5	0
				1880	18900	11.59	12.5	0
				1907.5	19175	11.91	12.5	0
			12	1852.5	18625	11.70	12.5	0
				1880	18900	11.61	12.5	0
				1907.5	19175	11.76	12.5	0
			24	1852.5	18625	11.62	12.5	0
				1880	18900	11.60	12.5	0
				1907.5	19175	10.98	12.5	0
		12 RB	0	1852.5	18625	11.70	12.5	0-1
				1880	18900	11.75	12.5	0-1
				1907.5	19175	11.89	12.5	0-1
			6	1852.5	18625	11.71	12.5	0-1
				1880	18900	11.66	12.5	0-1
				1907.5	19175	11.75	12.5	0-1
			13	1852.5	18625	11.57	12.5	0-1
				1880	18900	11.60	12.5	0-1
				1907.5	19175	11.44	12.5	0-1
		25RB		1852.5	18625	11.65	12.5	0-1
				1880	18900	11.59	12.5	0-1
				1907.5	19175	11.56	12.5	0-1
	16-QAM	1 RB	0	1852.5	18625	11.73	12.5	0-1
				1880	18900	11.68	12.5	0-1
				1907.5	19175	11.96	12.5	0-1
			12	1852.5	18625	11.92	12.5	0-1
				1880	18900	11.74	12.5	0-1
				1907.5	19175	11.65	12.5	0-1
			24	1852.5	18625	11.61	12.5	0-1
				1880	18900	11.48	12.5	0-1
				1907.5	19175	10.82	12.5	0-1
		12 RB	0	1852.5	18625	11.47	12.5	0-2
				1880	18900	11.33	12.5	0-2
				1907.5	19175	11.55	12.5	0-2
			6	1852.5	18625	11.31	12.5	0-2
				1880	18900	11.26	12.5	0-2
				1907.5	19175	11.37	12.5	0-2
			13	1852.5	18625	11.35	12.5	0-2
				1880	18900	11.20	12.5	0-2
				1907.5	19175	11.09	12.5	0-2
		25RB		1852.5	18625	11.33	12.5	0-2
				1880	18900	11.16	12.5	0-2
				1907.5	19175	11.28	12.5	0-2

FDD Band 2 (Reduced Power)								
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	11.91	12.5	0
				1880	18900	11.72	12.5	0
				1908.5	19185	11.73	12.5	0
			7	1851.5	18615	11.83	12.5	0
				1880	18900	11.58	12.5	0
				1908.5	19185	11.56	12.5	0
			14	1851.5	18615	11.75	12.5	0
				1880	18900	11.61	12.5	0
				1908.5	19185	10.92	12.5	0
		8 RB	0	1851.5	18615	11.84	12.5	0-1
				1880	18900	11.66	12.5	0-1
				1908.5	19185	11.63	12.5	0-1
			4	1851.5	18615	11.87	12.5	0-1
				1880	18900	11.67	12.5	0-1
				1908.5	19185	11.54	12.5	0-1
			7	1851.5	18615	11.76	12.5	0-1
				1880	18900	11.63	12.5	0-1
				1908.5	19185	11.23	12.5	0-1
		15RB		1851.5	18615	11.80	12.5	0-1
				1880	18900	11.59	12.5	0-1
				1908.5	19185	11.44	12.5	0-1
	16-QAM	1 RB	0	1851.5	18615	11.72	12.5	0-1
				1880	18900	11.30	12.5	0-1
				1908.5	19185	11.52	12.5	0-1
			7	1851.5	18615	12.07	12.5	0-1
				1880	18900	11.76	12.5	0-1
				1908.5	19185	11.41	12.5	0-1
			14	1851.5	18615	11.69	12.5	0-1
				1880	18900	11.49	12.5	0-1
				1908.5	19185	11.02	12.5	0-1
		8 RB	0	1851.5	18615	11.63	12.5	0-2
				1880	18900	11.35	12.5	0-2
				1908.5	19185	11.30	12.5	0-2
			4	1851.5	18615	11.51	12.5	0-2
				1880	18900	11.32	12.5	0-2
				1908.5	19185	11.33	12.5	0-2
			7	1851.5	18615	11.52	12.5	0-2
				1880	18900	11.29	12.5	0-2
				1908.5	19185	10.97	12.5	0-2
		15RB		1851.5	18615	11.55	12.5	0-2
				1880	18900	11.23	12.5	0-2
				1908.5	19185	11.12	12.5	0-2

FDD Band 2 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1850.7	18607	11.91	12.5	0
				1880	18900	11.58	12.5	0
				1909.3	19193	11.29	12.5	0
			2	1850.7	18607	11.85	12.5	0
				1880	18900	11.62	12.5	0
				1909.3	19193	11.20	12.5	0
			5	1850.7	18607	11.84	12.5	0
				1880	18900	11.57	12.5	0
				1909.3	19193	10.91	12.5	0
		3 RB	0	1850.7	18607	11.88	12.5	0-1
				1880	18900	11.64	12.5	0-1
				1909.3	19193	11.31	12.5	0-1
			2	1850.7	18607	11.90	12.5	0-1
				1880	18900	11.67	12.5	0-1
				1909.3	19193	11.12	12.5	0-1
			3	1850.7	18607	11.85	12.5	0-1
				1880	18900	11.60	12.5	0-1
				1909.3	19193	11.00	12.5	0-1
		6RB		1850.7	18607	11.88	12.5	0-1
				1880	18900	11.63	12.5	0-1
				1909.3	19193	11.20	12.5	0-1
	16-QAM	1 RB	0	1850.7	18607	11.74	12.5	0-1
				1880	18900	11.60	12.5	0-1
				1909.3	19193	11.12	12.5	0-1
			2	1850.7	18607	12.06	12.5	0-1
				1880	18900	11.20	12.5	0-1
				1909.3	19193	11.06	12.5	0-1
			5	1850.7	18607	11.33	12.5	0-1
				1880	18900	11.68	12.5	0-1
				1909.3	19193	10.72	12.5	0-1
		3 RB	0	1850.7	18607	11.70	12.5	0-2
				1880	18900	11.28	12.5	0-2
				1909.3	19193	10.94	12.5	0-2
			2	1850.7	18607	11.67	12.5	0-2
				1880	18900	11.27	12.5	0-2
				1909.3	19193	10.89	12.5	0-2
			3	1850.7	18607	11.64	12.5	0-2
				1880	18900	11.05	12.5	0-2
				1909.3	19193	10.77	12.5	0-2
		6RB		1850.7	18607	11.72	12.5	0-2
				1880	18900	11.28	12.5	0-2
				1909.3	19193	10.94	12.5	0-2

FDD Band 4 (Full Power)								
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	22.93	24	0
				1732.5	20175	22.88	24	0
				1745	20300	22.89	24	0
			50	1720	20050	22.91	24	0
				1732.5	20175	22.97	24	0
				1745	20300	23.27	24	0
			99	1720	20050	22.85	24	0
				1732.5	20175	22.71	24	0
				1745	20300	22.95	24	0
		50 RB	0	1720	20050	21.65	23	0-1
				1732.5	20175	21.70	23	0-1
				1745	20300	21.74	23	0-1
			25	1720	20050	21.62	23	0-1
				1732.5	20175	21.54	23	0-1
				1745	20300	21.55	23	0-1
			50	1720	20050	21.65	23	0-1
				1732.5	20175	21.55	23	0-1
				1745	20300	21.81	23	0-1
		100RB		1720	20050	21.69	23	0-1
				1732.5	20175	21.75	23	0-1
				1745	20300	21.57	23	0-1
	16-QAM	1 RB	0	1720	20050	21.78	23	0-1
				1732.5	20175	22.16	23	0-1
				1745	20300	22.20	23	0-1
			50	1720	20050	22.17	23	0-1
				1732.5	20175	21.85	23	0-1
				1745	20300	21.40	23	0-1
			99	1720	20050	21.58	23	0-1
				1732.5	20175	21.87	23	0-1
				1745	20300	22.26	23	0-1
		50 RB	0	1720	20050	20.58	22	0-2
				1732.5	20175	20.54	22	0-2
				1745	20300	20.75	22	0-2
			25	1720	20050	20.64	22	0-2
				1732.5	20175	20.34	22	0-2
				1745	20300	20.54	22	0-2
			50	1720	20050	20.54	22	0-2
				1732.5	20175	20.54	22	0-2
				1745	20300	20.76	22	0-2
		100RB		1720	20050	20.59	22	0-2
				1732.5	20175	20.62	22	0-2
				1745	20300	20.58	22	0-2

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FDD Band 4 (Full Power)								
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	22.81	24	0
				1732.5	20175	22.83	24	0
				1747.5	20325	23.02	24	0
			36	1717.5	20025	22.96	24	0
				1732.5	20175	22.62	24	0
				1747.5	20325	23.13	24	0
			74	1717.5	20025	22.93	24	0
				1732.5	20175	22.97	24	0
				1747.5	20325	23.15	24	0
		36 RB	0	1717.5	20025	21.61	23	0-1
				1732.5	20175	21.63	23	0-1
				1747.5	20325	21.73	23	0-1
			18	1717.5	20025	21.66	23	0-1
				1732.5	20175	21.59	23	0-1
				1747.5	20325	21.95	23	0-1
			37	1717.5	20025	21.58	23	0-1
				1732.5	20175	21.74	23	0-1
				1747.5	20325	21.76	23	0-1
		75RB		1717.5	20025	21.61	23	0-1
				1732.5	20175	21.60	23	0-1
				1747.5	20325	21.89	23	0-1
	16-QAM	1 RB	0	1717.5	20025	22.11	23	0-1
				1732.5	20175	21.45	23	0-1
				1747.5	20325	21.95	23	0-1
			36	1717.5	20025	21.62	23	0-1
				1732.5	20175	21.80	23	0-1
				1747.5	20325	21.96	23	0-1
			74	1717.5	20025	21.73	23	0-1
				1732.5	20175	21.60	23	0-1
				1747.5	20325	22.21	23	0-1
		36 RB	0	1717.5	20025	20.64	22	0-2
				1732.5	20175	20.64	22	0-2
				1747.5	20325	20.75	22	0-2
			18	1717.5	20025	20.68	22	0-2
				1732.5	20175	20.59	22	0-2
				1747.5	20325	20.99	22	0-2
			37	1717.5	20025	20.70	22	0-2
				1732.5	20175	20.86	22	0-2
				1747.5	20325	20.78	22	0-2
		75RB		1717.5	20025	20.69	22	0-2
				1732.5	20175	20.61	22	0-2
				1747.5	20325	20.49	22	0-2

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FDD Band 4 (Full Power)								
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	22.88	24	0
				1732.5	20175	22.76	24	0
				1750	20350	22.94	24	0
			25	1715	20000	22.86	24	0
				1732.5	20175	22.83	24	0
				1750	20350	23.23	24	0
			49	1715	20000	22.81	24	0
				1732.5	20175	22.68	24	0
				1750	20350	22.92	24	0
		25 RB	0	1715	20000	21.73	23	0-1
				1732.5	20175	21.69	23	0-1
				1750	20350	21.88	23	0-1
			12	1715	20000	21.76	23	0-1
				1732.5	20175	21.71	23	0-1
				1750	20350	21.77	23	0-1
			25	1715	20000	21.81	23	0-1
				1732.5	20175	21.79	23	0-1
				1750	20350	21.93	23	0-1
		50RB		1715	20000	21.55	23	0-1
				1732.5	20175	21.54	23	0-1
				1750	20350	21.65	23	0-1
	16-QAM	1 RB	0	1715	20000	21.75	23	0-1
				1732.5	20175	21.51	23	0-1
				1750	20350	21.73	23	0-1
			25	1715	20000	21.75	23	0-1
				1732.5	20175	22.04	23	0-1
				1750	20350	21.97	23	0-1
			49	1715	20000	21.59	23	0-1
				1732.5	20175	21.73	23	0-1
				1750	20350	21.98	23	0-1
		25 RB	0	1715	20000	20.70	22	0-2
				1732.5	20175	20.65	22	0-2
				1750	20350	20.47	22	0-2
			12	1715	20000	20.75	22	0-2
				1732.5	20175	20.61	22	0-2
				1750	20350	20.82	22	0-2
			25	1715	20000	20.64	22	0-2
				1732.5	20175	20.92	22	0-2
				1750	20350	20.88	22	0-2
		50RB		1715	20000	20.54	22	0-2
				1732.5	20175	20.42	22	0-2
				1750	20350	20.67	22	0-2

FDD Band 4 (Full Power)								
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	22.79	24	0
				1732.5	20175	22.88	24	0
				1752.5	20375	22.93	24	0
			12	1712.5	19975	22.76	24	0
				1732.5	20175	22.54	24	0
				1752.5	20375	23.08	24	0
			24	1712.5	19975	22.77	24	0
				1732.5	20175	22.81	24	0
				1752.5	20375	22.85	24	0
		12 RB	0	1712.5	19975	21.82	23	0-1
				1732.5	20175	21.71	23	0-1
				1752.5	20375	22.34	23	0-1
			6	1712.5	19975	21.74	23	0-1
				1732.5	20175	21.72	23	0-1
				1752.5	20375	22.07	23	0-1
			13	1712.5	19975	21.92	23	0-1
				1732.5	20175	21.87	23	0-1
				1752.5	20375	22.06	23	0-1
		25RB		1712.5	19975	21.93	23	0-1
				1732.5	20175	21.59	23	0-1
				1752.5	20375	21.93	23	0-1
	16-QAM	1 RB	0	1712.5	19975	21.84	23	0-1
				1732.5	20175	21.92	23	0-1
				1752.5	20375	22.09	23	0-1
			12	1712.5	19975	21.76	23	0-1
				1732.5	20175	21.77	23	0-1
				1752.5	20375	21.98	23	0-1
			24	1712.5	19975	21.83	23	0-1
				1732.5	20175	22.05	23	0-1
				1752.5	20375	21.74	23	0-1
		12 RB	0	1712.5	19975	20.84	22	0-2
				1732.5	20175	20.77	22	0-2
				1752.5	20375	20.94	22	0-2
			6	1712.5	19975	20.78	22	0-2
				1732.5	20175	20.83	22	0-2
				1752.5	20375	21.15	22	0-2
			13	1712.5	19975	20.98	22	0-2
				1732.5	20175	20.96	22	0-2
				1752.5	20375	21.14	22	0-2
		25RB		1712.5	19975	20.66	22	0-2
				1732.5	20175	20.65	22	0-2
				1752.5	20375	20.89	22	0-2

FDD Band 4 (Full Power)								
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	22.88	24	0
				1732.5	20175	22.84	24	0
				1753.5	20385	23.21	24	0
			7	1711.5	19965	22.91	24	0
				1732.5	20175	22.93	24	0
				1753.5	20385	23.08	24	0
			14	1711.5	19965	22.99	24	0
				1732.5	20175	22.87	24	0
				1753.5	20385	23.06	24	0
		8 RB	0	1711.5	19965	21.90	23	0-1
				1732.5	20175	21.71	23	0-1
				1753.5	20385	22.07	23	0-1
			4	1711.5	19965	21.94	23	0-1
				1732.5	20175	21.71	23	0-1
				1753.5	20385	22.12	23	0-1
			7	1711.5	19965	21.92	23	0-1
				1732.5	20175	22.00	23	0-1
				1753.5	20385	22.09	23	0-1
		15RB		1711.5	19965	21.84	23	0-1
				1732.5	20175	21.65	23	0-1
				1753.5	20385	22.04	23	0-1
	16-QAM	1 RB	0	1711.5	19965	22.05	23	0-1
				1732.5	20175	21.96	23	0-1
				1753.5	20385	21.93	23	0-1
			7	1711.5	19965	21.43	23	0-1
				1732.5	20175	21.68	23	0-1
				1753.5	20385	21.99	23	0-1
			14	1711.5	19965	22.04	23	0-1
				1732.5	20175	21.69	23	0-1
				1753.5	20385	22.00	23	0-1
		8 RB	0	1711.5	19965	20.63	22	0-2
				1732.5	20175	20.73	22	0-2
				1753.5	20385	21.08	22	0-2
			4	1711.5	19965	20.91	22	0-2
				1732.5	20175	20.73	22	0-2
				1753.5	20385	20.89	22	0-2
			7	1711.5	19965	20.67	22	0-2
				1732.5	20175	20.74	22	0-2
				1753.5	20385	20.97	22	0-2
		15RB		1711.5	19965	20.74	22	0-2
				1732.5	20175	20.72	22	0-2
				1753.5	20385	21.04	22	0-2

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FDD Band 4 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1710.7	19957	22.58	24	0
				1732.5	20175	22.27	24	0
				1754.3	20393	22.74	24	0
			2	1710.7	19957	22.68	24	0
				1732.5	20175	22.21	24	0
				1754.3	20393	22.83	24	0
			5	1710.7	19957	22.59	24	0
				1732.5	20175	22.51	24	0
				1754.3	20393	22.85	24	0
		3 RB	0	1710.7	19957	22.75	23	0-1
				1732.5	20175	22.19	23	0-1
				1754.3	20393	22.80	23	0-1
			2	1710.7	19957	22.63	23	0-1
				1732.5	20175	22.19	23	0-1
				1754.3	20393	22.81	23	0-1
			3	1710.7	19957	22.54	23	0-1
				1732.5	20175	22.55	23	0-1
				1754.3	20393	22.81	23	0-1
		6RB		1710.7	19957	21.68	23	0-1
				1732.5	20175	21.36	23	0-1
				1754.3	20393	21.85	23	0-1
	16-QAM	1 RB	0	1710.7	19957	21.85	23	0-1
				1732.5	20175	21.11	23	0-1
				1754.3	20393	21.48	23	0-1
			2	1710.7	19957	21.70	23	0-1
				1732.5	20175	21.39	23	0-1
				1754.3	20393	21.99	23	0-1
			5	1710.7	19957	21.74	23	0-1
				1732.5	20175	21.41	23	0-1
				1754.3	20393	21.80	23	0-1
		3 RB	0	1710.7	19957	21.73	22	0-2
				1732.5	20175	21.39	22	0-2
				1754.3	20393	21.84	22	0-2
			2	1710.7	19957	21.58	22	0-2
				1732.5	20175	21.35	22	0-2
				1754.3	20393	21.93	22	0-2
			3	1710.7	19957	21.53	22	0-2
				1732.5	20175	21.77	22	0-2
				1754.3	20393	21.89	22	0-2
		6RB		1710.7	19957	20.56	22	0-2
				1732.5	20175	20.46	22	0-2
				1754.3	20393	20.97	22	0-2

FDD Band 4 (Reduced Power)

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	14.80	15	0
				1732.5	20175	14.43	15	0
				1745	20300	14.50	15	0
			50	1720	20050	14.58	15	0
				1732.5	20175	13.99	15	0
				1745	20300	14.26	15	0
			99	1720	20050	13.84	15	0
				1732.5	20175	14.47	15	0
				1745	20300	14.68	15	0
		50 RB	0	1720	20050	14.10	15	0-1
				1732.5	20175	13.72	15	0-1
				1745	20300	14.17	15	0-1
			25	1720	20050	13.99	15	0-1
				1732.5	20175	13.90	15	0-1
				1745	20300	14.22	15	0-1
			50	1720	20050	13.91	15	0-1
				1732.5	20175	14.00	15	0-1
				1745	20300	14.16	15	0-1
		100RB		1720	20050	13.97	15	0-1
				1732.5	20175	13.88	15	0-1
				1745	20300	14.13	15	0-1
	16-QAM	1 RB	0	1720	20050	14.21	15	0-1
				1732.5	20175	13.78	15	0-1
				1745	20300	13.91	15	0-1
			50	1720	20050	14.07	15	0-1
				1732.5	20175	13.81	15	0-1
				1745	20300	14.18	15	0-1
			99	1720	20050	13.85	15	0-1
				1732.5	20175	14.13	15	0-1
				1745	20300	14.17	15	0-1
		50 RB	0	1720	20050	14.10	15	0-2
				1732.5	20175	13.70	15	0-2
				1745	20300	14.19	15	0-2
			25	1720	20050	14.00	15	0-2
				1732.5	20175	13.83	15	0-2
				1745	20300	14.22	15	0-2
			50	1720	20050	13.87	15	0-2
				1732.5	20175	14.00	15	0-2
				1745	20300	14.09	15	0-2
		100RB		1720	20050	13.91	15	0-2
				1732.5	20175	13.86	15	0-2
				1745	20300	14.11	15	0-2

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FDD Band 4 (Reduced Power)								
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	14.51	15	0
				1732.5	20175	14.35	15	0
				1747.5	20325	14.32	15	0
			36	1717.5	20025	14.48	15	0
				1732.5	20175	14.37	15	0
				1747.5	20325	14.18	15	0
			74	1717.5	20025	14.34	15	0
				1732.5	20175	14.20	15	0
				1747.5	20325	14.18	15	0
		36 RB	0	1717.5	20025	13.99	15	0-1
				1732.5	20175	13.87	15	0-1
				1747.5	20325	14.25	15	0-1
			18	1717.5	20025	13.94	15	0-1
				1732.5	20175	13.83	15	0-1
				1747.5	20325	14.20	15	0-1
			37	1717.5	20025	13.87	15	0-1
				1732.5	20175	13.99	15	0-1
				1747.5	20325	14.12	15	0-1
		75RB		1717.5	20025	13.93	15	0-1
				1732.5	20175	13.85	15	0-1
				1747.5	20325	14.20	15	0-1
	16-QAM	1 RB	0	1717.5	20025	14.12	15	0-1
				1732.5	20175	13.80	15	0-1
				1747.5	20325	14.08	15	0-1
			36	1717.5	20025	13.93	15	0-1
				1732.5	20175	13.86	15	0-1
				1747.5	20325	14.15	15	0-1
			74	1717.5	20025	13.82	15	0-1
				1732.5	20175	13.97	15	0-1
				1747.5	20325	14.12	15	0-1
		36 RB	0	1717.5	20025	14.02	15	0-2
				1732.5	20175	13.84	15	0-2
				1747.5	20325	14.19	15	0-2
			18	1717.5	20025	13.99	15	0-2
				1732.5	20175	13.82	15	0-2
				1747.5	20325	14.12	15	0-2
			37	1717.5	20025	13.94	15	0-2
				1732.5	20175	13.96	15	0-2
				1747.5	20325	14.12	15	0-2
		75RB		1717.5	20025	13.97	15	0-2
				1732.5	20175	13.80	15	0-2
				1747.5	20325	14.18	15	0-2

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FDD Band 4 (Reduced Power)								
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	14.20	15	0
				1732.5	20175	14.01	15	0
				1750	20350	14.37	15	0
			25	1715	20000	14.02	15	0
				1732.5	20175	14.04	15	0
				1750	20350	14.37	15	0
			49	1715	20000	13.94	15	0
				1732.5	20175	14.09	15	0
				1750	20350	14.37	15	0
		25 RB	0	1715	20000	14.05	15	0-1
				1732.5	20175	13.91	15	0-1
				1750	20350	14.18	15	0-1
			12	1715	20000	13.96	15	0-1
				1732.5	20175	13.88	15	0-1
				1750	20350	14.25	15	0-1
			25	1715	20000	14.06	15	0-1
				1732.5	20175	13.92	15	0-1
				1750	20350	14.15	15	0-1
		50RB		1715	20000	14.03	15	0-1
				1732.5	20175	13.91	15	0-1
				1750	20350	14.18	15	0-1
	16-QAM	1 RB	0	1715	20000	14.15	15	0-1
				1732.5	20175	13.82	15	0-1
				1750	20350	14.25	15	0-1
			25	1715	20000	14.06	15	0-1
				1732.5	20175	13.83	15	0-1
				1750	20350	14.13	15	0-1
			49	1715	20000	14.00	15	0-1
				1732.5	20175	14.03	15	0-1
				1750	20350	14.14	15	0-1
		25 RB	0	1715	20000	14.05	15	0-2
				1732.5	20175	13.88	15	0-2
				1750	20350	14.19	15	0-2
			12	1715	20000	13.99	15	0-2
				1732.5	20175	13.90	15	0-2
				1750	20350	14.27	15	0-2
			25	1715	20000	14.12	15	0-2
				1732.5	20175	13.99	15	0-2
				1750	20350	14.17	15	0-2
		50RB		1715	20000	14.12	15	0-2
				1732.5	20175	13.92	15	0-2
				1750	20350	14.17	15	0-2

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FDD Band 4 (Reduced Power)								
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	14.24	15	0
				1732.5	20175	13.79	15	0
				1752.5	20375	14.41	15	0
			12	1712.5	19975	14.56	15	0
				1732.5	20175	14.37	15	0
				1752.5	20375	14.77	15	0
			24	1712.5	19975	14.29	15	0
				1732.5	20175	14.12	15	0
				1752.5	20375	14.43	15	0
		12 RB	0	1712.5	19975	14.10	15	0-1
				1732.5	20175	13.93	15	0-1
				1752.5	20375	14.31	15	0-1
			6	1712.5	19975	14.14	15	0-1
				1732.5	20175	13.90	15	0-1
				1752.5	20375	14.20	15	0-1
			13	1712.5	19975	14.06	15	0-1
				1732.5	20175	13.95	15	0-1
				1752.5	20375	14.19	15	0-1
		25RB		1712.5	19975	14.09	15	0-1
				1732.5	20175	13.83	15	0-1
				1752.5	20375	14.10	15	0-1
	16-QAM	1 RB	0	1712.5	19975	13.95	15	0-1
				1732.5	20175	13.75	15	0-1
				1752.5	20375	14.17	15	0-1
			12	1712.5	19975	14.07	15	0-1
				1732.5	20175	13.81	15	0-1
				1752.5	20375	14.18	15	0-1
			24	1712.5	19975	14.08	15	0-1
				1732.5	20175	13.88	15	0-1
				1752.5	20375	14.16	15	0-1
		12 RB	0	1712.5	19975	14.08	15	0-2
				1732.5	20175	13.84	15	0-2
				1752.5	20375	14.02	15	0-2
			6	1712.5	19975	14.14	15	0-2
				1732.5	20175	13.78	15	0-2
				1752.5	20375	14.13	15	0-2
			13	1712.5	19975	14.05	15	0-2
				1732.5	20175	13.87	15	0-2
				1752.5	20375	14.14	15	0-2
		25RB		1712.5	19975	14.09	15	0-2
				1732.5	20175	13.84	15	0-2
				1752.5	20375	14.10	15	0-2

FDD Band 4 (Reduced Power)								
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	14.53	15	0
				1732.5	20175	13.76	15	0
				1753.5	20385	14.23	15	0
			7	1711.5	19965	14.20	15	0
				1732.5	20175	14.43	15	0
				1753.5	20385	14.28	15	0
			14	1711.5	19965	14.02	15	0
				1732.5	20175	14.03	15	0
				1753.5	20385	14.45	15	0
		8 RB	0	1711.5	19965	14.06	15	0-1
				1732.5	20175	13.97	15	0-1
				1753.5	20385	14.25	15	0-1
			4	1711.5	19965	13.99	15	0-1
				1732.5	20175	13.87	15	0-1
				1753.5	20385	14.26	15	0-1
			7	1711.5	19965	14.02	15	0-1
				1732.5	20175	13.86	15	0-1
				1753.5	20385	14.10	15	0-1
		15RB		1711.5	19965	13.92	15	0-1
				1732.5	20175	13.90	15	0-1
				1753.5	20385	14.16	15	0-1
	16-QAM	1 RB	0	1711.5	19965	13.86	15	0-1
				1732.5	20175	13.73	15	0-1
				1753.5	20385	14.03	15	0-1
			7	1711.5	19965	13.96	15	0-1
				1732.5	20175	13.77	15	0-1
				1753.5	20385	14.10	15	0-1
			14	1711.5	19965	13.87	15	0-1
				1732.5	20175	13.82	15	0-1
				1753.5	20385	13.95	15	0-1
		8 RB	0	1711.5	19965	13.93	15	0-2
				1732.5	20175	13.85	15	0-2
				1753.5	20385	14.05	15	0-2
			4	1711.5	19965	13.98	15	0-2
				1732.5	20175	13.78	15	0-2
				1753.5	20385	14.14	15	0-2
			7	1711.5	19965	13.91	15	0-2
				1732.5	20175	13.77	15	0-2
				1753.5	20385	14.07	15	0-2
		15RB		1711.5	19965	13.99	15	0-2
				1732.5	20175	13.80	15	0-2
				1753.5	20385	14.08	15	0-2

FDD Band 4 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1710.7	19957	14.17	15	0
				1732.5	20175	13.96	15	0
				1754.3	20393	14.18	15	0
			2	1710.7	19957	14.27	15	0
				1732.5	20175	14.04	15	0
				1754.3	20393	14.54	15	0
			5	1710.7	19957	14.46	15	0
				1732.5	20175	14.29	15	0
				1754.3	20393	13.97	15	0
		3 RB	0	1710.7	19957	13.85	15	0-1
				1732.5	20175	13.74	15	0-1
				1754.3	20393	14.02	15	0-1
			2	1710.7	19957	14.02	15	0-1
				1732.5	20175	13.96	15	0-1
				1754.3	20393	14.05	15	0-1
			3	1710.7	19957	14.10	15	0-1
				1732.5	20175	13.66	15	0-1
				1754.3	20393	14.13	15	0-1
		6RB		1710.7	19957	14.08	15	0-1
				1732.5	20175	13.86	15	0-1
				1754.3	20393	14.20	15	0-1
	16-QAM	1 RB	0	1710.7	19957	13.97	15	0-1
				1732.5	20175	13.74	15	0-1
				1754.3	20393	14.00	15	0-1
			2	1710.7	19957	13.99	15	0-1
				1732.5	20175	13.79	15	0-1
				1754.3	20393	14.07	15	0-1
			5	1710.7	19957	13.88	15	0-1
				1732.5	20175	13.64	15	0-1
				1754.3	20393	14.05	15	0-1
		3 RB	0	1710.7	19957	13.96	15	0-2
				1732.5	20175	13.74	15	0-2
				1754.3	20393	14.07	15	0-2
			2	1710.7	19957	14.07	15	0-2
				1732.5	20175	13.80	15	0-2
				1754.3	20393	14.11	15	0-2
			3	1710.7	19957	13.98	15	0-2
				1732.5	20175	13.67	15	0-2
				1754.3	20393	14.08	15	0-2
		6RB		1710.7	19957	14.03	15	0-2
				1732.5	20175	13.72	15	0-2
				1754.3	20393	14.08	15	0-2

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FDD Band 5 (Full Power)								
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	22.59	24	0
				836.5	20525	22.68	24	0
				844	20600	23.06	24	0
			25	829	20450	22.75	24	0
				836.5	20525	23.07	24	0
				844	20600	22.85	24	0
			49	829	20450	22.95	24	0
				836.5	20525	23.28	24	0
				844	20600	22.56	24	0
		25 RB	0	829	20450	21.46	23	0-1
				836.5	20525	21.82	23	0-1
				844	20600	21.98	23	0-1
			12	829	20450	21.53	23	0-1
				836.5	20525	21.89	23	0-1
				844	20600	21.81	23	0-1
			25	829	20450	21.63	23	0-1
				836.5	20525	22.01	23	0-1
				844	20600	21.57	23	0-1
		50RB		829	20450	21.40	23	0-1
				836.5	20525	21.73	23	0-1
				844	20600	21.66	23	0-1
	16-QAM	1 RB	0	829	20450	21.84	23	0-1
				836.5	20525	22.01	23	0-1
				844	20600	22.20	23	0-1
			25	829	20450	21.90	23	0-1
				836.5	20525	22.24	23	0-1
				844	20600	21.80	23	0-1
			49	829	20450	22.10	23	0-1
				836.5	20525	22.28	23	0-1
				844	20600	21.48	23	0-1
		25 RB	0	829	20450	20.43	22	0-2
				836.5	20525	20.78	22	0-2
				844	20600	20.87	22	0-2
			12	829	20450	20.57	22	0-2
				836.5	20525	20.85	22	0-2
				844	20600	20.74	22	0-2
			25	829	20450	20.67	22	0-2
				836.5	20525	20.99	22	0-2
				844	20600	20.45	22	0-2
		50RB		829	20450	20.38	22	0-2
				836.5	20525	20.73	22	0-2
				844	20600	20.55	22	0-2

FDD Band 5 (Full Power)								
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	22.62	24	0
				836.5	20525	22.89	24	0
				846.5	20625	22.68	24	0
			12	826.5	20425	22.66	24	0
				836.5	20525	23.09	24	0
				846.5	20625	22.49	24	0
			24	826.5	20425	22.63	24	0
				836.5	20525	23.25	24	0
				846.5	20625	22.47	24	0
		12 RB	0	826.5	20425	21.59	23	0-1
				836.5	20525	21.93	23	0-1
				846.5	20625	21.72	23	0-1
			6	826.5	20425	21.58	23	0-1
				836.5	20525	22.09	23	0-1
				846.5	20625	21.63	23	0-1
			13	826.5	20425	21.63	23	0-1
				836.5	20525	22.17	23	0-1
				846.5	20625	21.62	23	0-1
		25RB		826.5	20425	21.57	23	0-1
				836.5	20525	21.85	23	0-1
				846.5	20625	21.52	23	0-1
	16-QAM	1 RB	0	826.5	20425	21.73	23	0-1
				836.5	20525	22.19	23	0-1
				846.5	20625	21.63	23	0-1
			12	826.5	20425	21.55	23	0-1
				836.5	20525	22.03	23	0-1
				846.5	20625	21.28	23	0-1
			24	826.5	20425	21.95	23	0-1
				836.5	20525	22.50	23	0-1
				846.5	20625	21.60	23	0-1
		12 RB	0	826.5	20425	20.75	22	0-2
				836.5	20525	20.97	22	0-2
				846.5	20625	20.77	22	0-2
			6	826.5	20425	20.76	22	0-2
				836.5	20525	21.04	22	0-2
				846.5	20625	20.66	22	0-2
			13	826.5	20425	20.62	22	0-2
				836.5	20525	21.27	22	0-2
				846.5	20625	20.69	22	0-2
		25RB		826.5	20425	20.62	22	0-2
				836.5	20525	20.93	22	0-2
				846.5	20625	20.49	22	0-2

FDD Band 5 (Full Power)								
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	22.43	24	0
				836.5	20525	22.90	24	0
				847.5	20635	22.68	24	0
			7	825.5	20415	22.62	24	0
				836.5	20525	22.99	24	0
				847.5	20635	22.57	24	0
			14	825.5	20415	22.52	24	0
				836.5	20525	23.16	24	0
				847.5	20635	22.37	24	0
		8 RB	0	825.5	20415	21.61	23	0-1
				836.5	20525	22.00	23	0-1
				847.5	20635	21.64	23	0-1
			4	825.5	20415	21.66	23	0-1
				836.5	20525	22.10	23	0-1
				847.5	20635	21.66	23	0-1
			7	825.5	20415	21.53	23	0-1
				836.5	20525	22.12	23	0-1
				847.5	20635	21.51	23	0-1
		15RB		825.5	20415	21.58	23	0-1
				836.5	20525	21.91	23	0-1
				847.5	20635	21.44	23	0-1
	16-QAM	1 RB	0	825.5	20415	21.85	23	0-1
				836.5	20525	21.58	23	0-1
				847.5	20635	21.57	23	0-1
			7	825.5	20415	21.83	23	0-1
				836.5	20525	22.41	23	0-1
				847.5	20635	21.22	23	0-1
			14	825.5	20415	21.50	23	0-1
				836.5	20525	22.11	23	0-1
				847.5	20635	21.36	23	0-1
		8 RB	0	825.5	20415	20.60	22	0-2
				836.5	20525	20.94	22	0-2
				847.5	20635	20.53	22	0-2
			4	825.5	20415	20.61	22	0-2
				836.5	20525	21.01	22	0-2
				847.5	20635	20.57	22	0-2
			7	825.5	20415	20.67	22	0-2
				836.5	20525	20.92	22	0-2
				847.5	20635	20.48	22	0-2
		15RB		825.5	20415	20.50	22	0-2
				836.5	20525	20.95	22	0-2
				847.5	20635	20.53	22	0-2

FDD Band 5 (Full Power)								
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	22.37	24	0
				836.5	20525	22.88	24	0
				848.3	20643	22.34	24	0
			2	824.7	20407	22.41	24	0
				836.5	20525	22.97	24	0
				848.3	20643	22.33	24	0
			5	824.7	20407	22.51	24	0
				836.5	20525	22.91	24	0
				848.3	20643	22.28	24	0
		3 RB	0	824.7	20407	22.41	23	0-1
				836.5	20525	22.90	23	0-1
				848.3	20643	22.36	23	0-1
			2	824.7	20407	22.42	23	0-1
				836.5	20525	22.87	23	0-1
				848.3	20643	22.35	23	0-1
			3	824.7	20407	22.38	23	0-1
				836.5	20525	22.84	23	0-1
				848.3	20643	22.30	23	0-1
		6RB		824.7	20407	21.42	23	0-1
				836.5	20525	22.05	23	0-1
				848.3	20643	21.34	23	0-1
	16-QAM	1 RB	0	824.7	20407	21.01	23	0-1
				836.5	20525	21.78	23	0-1
				848.3	20643	21.36	23	0-1
			2	824.7	20407	21.37	23	0-1
				836.5	20525	21.86	23	0-1
				848.3	20643	21.16	23	0-1
			5	824.7	20407	21.25	23	0-1
				836.5	20525	22.07	23	0-1
				848.3	20643	21.08	23	0-1
		3 RB	0	824.7	20407	21.51	22	0-2
				836.5	20525	21.99	22	0-2
				848.3	20643	21.35	22	0-2
			2	824.7	20407	21.52	22	0-2
				836.5	20525	21.99	22	0-2
				848.3	20643	21.20	22	0-2
			3	824.7	20407	21.48	22	0-2
				836.5	20525	21.99	22	0-2
				848.3	20643	21.20	22	0-2
		6RB		824.7	20407	20.45	22	0-2
				836.5	20525	20.94	22	0-2
				848.3	20643	20.27	22	0-2

FDD Band 5 (Reduced Power)								
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	19.42	20	0
				836.5	20525	19.46	20	0
				844	20600	19.72	20	0
			25	829	20450	19.43	20	0
				836.5	20525	19.48	20	0
				844	20600	19.25	20	0
			49	829	20450	19.70	20	0
				836.5	20525	19.59	20	0
				844	20600	19.04	20	0
		25 RB	0	829	20450	18.91	20	0-1
				836.5	20525	19.31	20	0-1
				844	20600	19.49	20	0-1
			12	829	20450	18.96	20	0-1
				836.5	20525	19.43	20	0-1
				844	20600	19.10	20	0-1
			25	829	20450	19.07	20	0-1
				836.5	20525	19.46	20	0-1
				844	20600	18.88	20	0-1
		50RB		829	20450	18.81	20	0-1
				836.5	20525	19.27	20	0-1
				844	20600	19.03	20	0-1
	16-QAM	1 RB	0	829	20450	18.85	20	0-1
				836.5	20525	18.99	20	0-1
				844	20600	19.44	20	0-1
			25	829	20450	18.92	20	0-1
				836.5	20525	19.32	20	0-1
				844	20600	19.15	20	0-1
			49	829	20450	19.33	20	0-1
				836.5	20525	19.32	20	0-1
				844	20600	18.81	20	0-1
		25 RB	0	829	20450	18.80	20	0-2
				836.5	20525	19.12	20	0-2
				844	20600	19.12	20	0-2
			12	829	20450	18.86	20	0-2
				836.5	20525	19.23	20	0-2
				844	20600	19.06	20	0-2
			25	829	20450	19.00	20	0-2
				836.5	20525	19.27	20	0-2
				844	20600	18.87	20	0-2
		50RB		829	20450	18.71	20	0-2
				836.5	20525	19.12	20	0-2
				844	20600	18.96	20	0-2

FDD Band 5 (Reduced Power)								
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	19.07	20	0
				836.5	20525	19.43	20	0
				846.5	20625	19.22	20	0
			12	826.5	20425	19.09	20	0
				836.5	20525	19.46	20	0
				846.5	20625	18.99	20	0
			24	826.5	20425	19.29	20	0
				836.5	20525	19.48	20	0
				846.5	20625	18.96	20	0
		12 RB	0	826.5	20425	19.21	20	0-1
				836.5	20525	19.47	20	0-1
				846.5	20625	19.11	20	0-1
			6	826.5	20425	19.14	20	0-1
				836.5	20525	19.51	20	0-1
				846.5	20625	19.03	20	0-1
			13	826.5	20425	19.06	20	0-1
				836.5	20525	19.59	20	0-1
				846.5	20625	19.10	20	0-1
		25RB		826.5	20425	18.94	20	0-1
				836.5	20525	19.43	20	0-1
				846.5	20625	19.03	20	0-1
	16-QAM	1 RB	0	826.5	20425	19.00	20	0-1
				836.5	20525	19.43	20	0-1
				846.5	20625	19.14	20	0-1
			12	826.5	20425	19.29	20	0-1
				836.5	20525	19.52	20	0-1
				846.5	20625	19.27	20	0-1
			24	826.5	20425	19.29	20	0-1
				836.5	20525	19.62	20	0-1
				846.5	20625	18.95	20	0-1
		12 RB	0	826.5	20425	19.13	20	0-2
				836.5	20525	19.50	20	0-2
				846.5	20625	19.19	20	0-2
			6	826.5	20425	19.17	20	0-2
				836.5	20525	19.48	20	0-2
				846.5	20625	19.09	20	0-2
			13	826.5	20425	19.05	20	0-2
				836.5	20525	19.66	20	0-2
				846.5	20625	19.06	20	0-2
		25RB		826.5	20425	18.86	20	0-2
				836.5	20525	19.42	20	0-2
				846.5	20625	18.83	20	0-2

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FDD Band 5 (Reduced Power)								
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	19.15	20	0
				836.5	20525	18.94	20	0
				847.5	20635	18.93	20	0
			7	825.5	20415	18.59	20	0
				836.5	20525	19.01	20	0
				847.5	20635	18.67	20	0
			14	825.5	20415	18.72	20	0
				836.5	20525	19.17	20	0
				847.5	20635	18.89	20	0
		8 RB	0	825.5	20415	18.91	20	0-1
				836.5	20525	19.12	20	0-1
				847.5	20635	18.87	20	0-1
			4	825.5	20415	18.86	20	0-1
				836.5	20525	19.24	20	0-1
				847.5	20635	18.68	20	0-1
			7	825.5	20415	18.64	20	0-1
				836.5	20525	19.24	20	0-1
				847.5	20635	18.68	20	0-1
		15RB		825.5	20415	18.80	20	0-1
				836.5	20525	19.25	20	0-1
				847.5	20635	18.71	20	0-1
	16-QAM	1 RB	0	825.5	20415	18.78	20	0-1
				836.5	20525	19.28	20	0-1
				847.5	20635	18.73	20	0-1
			7	825.5	20415	18.82	20	0-1
				836.5	20525	19.30	20	0-1
				847.5	20635	18.67	20	0-1
			14	825.5	20415	18.84	20	0-1
				836.5	20525	19.27	20	0-1
				847.5	20635	18.62	20	0-1
		8 RB	0	825.5	20415	18.89	20	0-2
				836.5	20525	19.29	20	0-2
				847.5	20635	18.83	20	0-2
			4	825.5	20415	18.92	20	0-2
				836.5	20525	19.33	20	0-2
				847.5	20635	18.84	20	0-2
			7	825.5	20415	18.77	20	0-2
				836.5	20525	19.24	20	0-2
				847.5	20635	18.75	20	0-2
		15RB		825.5	20415	18.84	20	0-2
				836.5	20525	19.24	20	0-2
				847.5	20635	18.64	20	0-2

FDD Band 5 (Reduced Power)								
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	18.70	20	0
				836.5	20525	19.36	20	0
				848.3	20643	18.90	20	0
			2	824.7	20407	18.73	20	0
				836.5	20525	19.49	20	0
				848.3	20643	18.45	20	0
			5	824.7	20407	18.88	20	0
				836.5	20525	18.98	20	0
				848.3	20643	18.88	20	0
		3 RB	0	824.7	20407	18.97	20	0-1
				836.5	20525	19.28	20	0-1
				848.3	20643	18.83	20	0-1
			2	824.7	20407	19.00	20	0-1
				836.5	20525	19.28	20	0-1
				848.3	20643	18.85	20	0-1
			3	824.7	20407	19.04	20	0-1
				836.5	20525	19.44	20	0-1
				848.3	20643	18.80	20	0-1
		6RB		824.7	20407	18.90	20	0-1
				836.5	20525	19.50	20	0-1
				848.3	20643	18.69	20	0-1
	16-QAM	1 RB	0	824.7	20407	18.93	20	0-1
				836.5	20525	19.34	20	0-1
				848.3	20643	18.72	20	0-1
			2	824.7	20407	18.94	20	0-1
				836.5	20525	19.35	20	0-1
				848.3	20643	18.77	20	0-1
			5	824.7	20407	18.87	20	0-1
				836.5	20525	19.33	20	0-1
				848.3	20643	18.68	20	0-1
		3 RB	0	824.7	20407	18.91	20	0-2
				836.5	20525	19.41	20	0-2
				848.3	20643	18.79	20	0-2
			2	824.7	20407	18.93	20	0-2
				836.5	20525	19.37	20	0-2
				848.3	20643	18.70	20	0-2
			3	824.7	20407	18.90	20	0-2
				836.5	20525	19.33	20	0-2
				848.3	20643	18.68	20	0-2
		6RB		824.7	20407	18.89	20	0-2
				836.5	20525	19.28	20	0-2
				848.3	20643	18.72	20	0-2

FDD Band 13 (Full Power)								
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	22.82	24	0
			25	782	23230	23.30	24	0
			49	782	23230	23.09	24	0
		25 RB	0	782	23230	21.91	23	0-1
			12	782	23230	22.01	23	0-1
			25	782	23230	21.89	23	0-1
		50RB		782	23230	21.76	23	0-1
	16-QAM	1 RB	0	782	23230	21.35	23	0-1
			25	782	23230	21.90	23	0-1
			49	782	23230	21.63	23	0-1
		25 RB	0	782	23230	20.99	22	0-2
			12	782	23230	20.95	22	0-2
			25	782	23230	20.91	22	0-2
		50RB		782	23230	20.78	22	0-2

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FDD Band 13 (Full Power)								
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	22.63	24	0
				782	23230	22.90	24	0
				784.5	23255	22.91	24	0
			12	779.5	23205	22.84	24	0
				782	23230	23.04	24	0
				784.5	23255	22.88	24	0
			24	779.5	23205	23.17	24	0
				782	23230	23.02	24	0
				784.5	23255	22.81	24	0
		12 RB	0	779.5	23205	21.85	23	0-1
				782	23230	22.01	23	0-1
				784.5	23255	21.96	23	0-1
			6	779.5	23205	21.90	23	0-1
				782	23230	22.01	23	0-1
				784.5	23255	21.84	23	0-1
			13	779.5	23205	21.99	23	0-1
				782	23230	21.91	23	0-1
				784.5	23255	21.84	23	0-1
		25RB		779.5	23205	21.77	23	0-1
				782	23230	21.90	23	0-1
				784.5	23255	21.69	23	0-1
	16-QAM	1 RB	0	779.5	23205	21.27	23	0-1
				782	23230	21.60	23	0-1
				784.5	23255	21.89	23	0-1
			12	779.5	23205	21.79	23	0-1
				782	23230	22.33	23	0-1
				784.5	23255	22.12	23	0-1
			24	779.5	23205	22.27	23	0-1
				782	23230	21.91	23	0-1
				784.5	23255	21.68	23	0-1
		12 RB	0	779.5	23205	20.62	22	0-2
				782	23230	21.05	22	0-2
				784.5	23255	20.96	22	0-2
			6	779.5	23205	20.98	22	0-2
				782	23230	21.07	22	0-2
				784.5	23255	20.95	22	0-2
			13	779.5	23205	20.99	22	0-2
				782	23230	20.95	22	0-2
				784.5	23255	20.88	22	0-2
		25RB		779.5	23205	20.63	22	0-2
				782	23230	20.75	22	0-2
				784.5	23255	20.65	22	0-2

FDD Band 13 (Reduced Power)								
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	19.46	20	0
			25	782	23230	19.82	20	0
			49	782	23230	19.78	20	0
		25 RB	0	782	23230	19.49	20	0-1
			12	782	23230	19.61	20	0-1
			25	782	23230	19.58	20	0-1
		50RB		782	23230	19.45	20	0-1
	16-QAM	1 RB	0	782	23230	19.15	20	0-1
			25	782	23230	19.55	20	0-1
			49	782	23230	19.52	20	0-1
		25 RB	0	782	23230	19.53	20	0-2
			12	782	23230	19.54	20	0-2
			25	782	23230	19.52	20	0-2
		50RB		782	23230	19.41	20	0-2

FDD Band 13 (Reduced Power)								
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	19.22	20	0
				782	23230	19.39	20	0
				784.5	23255	19.33	20	0
			12	779.5	23205	19.46	20	0
				782	23230	19.41	20	0
				784.5	23255	19.14	20	0
			24	779.5	23205	19.40	20	0
				782	23230	19.21	20	0
				784.5	23255	19.42	20	0
		12 RB	0	779.5	23205	19.15	20	0-1
				782	23230	19.41	20	0-1
				784.5	23255	19.21	20	0-1
			6	779.5	23205	19.25	20	0-1
				782	23230	19.31	20	0-1
				784.5	23255	19.27	20	0-1
			13	779.5	23205	19.40	20	0-1
				782	23230	19.26	20	0-1
				784.5	23255	19.26	20	0-1
		25RB		779.5	23205	19.13	20	0-1
				782	23230	19.25	20	0-1
				784.5	23255	19.08	20	0-1
	16-QAM	1 RB	0	779.5	23205	18.68	20	0-1
				782	23230	18.97	20	0-1
				784.5	23255	18.90	20	0-1
			12	779.5	23205	19.37	20	0-1
				782	23230	19.09	20	0-1
				784.5	23255	18.85	20	0-1
			24	779.5	23205	19.24	20	0-1
				782	23230	19.27	20	0-1
				784.5	23255	19.45	20	0-1
		12 RB	0	779.5	23205	18.99	20	0-2
				782	23230	19.24	20	0-2
				784.5	23255	18.98	20	0-2
			6	779.5	23205	19.23	20	0-2
				782	23230	19.20	20	0-2
				784.5	23255	19.20	20	0-2
			13	779.5	23205	19.24	20	0-2
				782	23230	19.20	20	0-2
				784.5	23255	19.15	20	0-2
		25RB		779.5	23205	18.76	20	0-2
				782	23230	18.99	20	0-2
				784.5	23255	18.81	20	0-2

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FDD Band 17 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	709	23780	22.39	24	0
				710	23790	22.48	24	0
				711	23800	22.37	24	0
			25	709	23780	22.43	24	0
				710	23790	22.41	24	0
				711	23800	22.33	24	0
			49	709	23780	22.50	24	0
				710	23790	22.55	24	0
				711	23800	22.66	24	0
		25 RB	0	709	23780	21.45	23	0-1
				710	23790	21.31	23	0-1
				711	23800	21.30	23	0-1
			12	709	23780	21.27	23	0-1
				710	23790	21.26	23	0-1
				711	23800	21.33	23	0-1
			25	709	23780	21.34	23	0-1
				710	23790	21.36	23	0-1
				711	23800	21.28	23	0-1
		50RB		709	23780	21.23	23	0-1
				710	23790	21.26	23	0-1
				711	23800	21.19	23	0-1
	16-QAM	1 RB	0	709	23780	21.12	23	0-1
				710	23790	21.81	23	0-1
				711	23800	21.42	23	0-1
			25	709	23780	21.34	23	0-1
				710	23790	21.67	23	0-1
				711	23800	21.34	23	0-1
			49	709	23780	21.33	23	0-1
				710	23790	21.77	23	0-1
				711	23800	21.53	23	0-1
		25 RB	0	709	23780	20.34	22	0-2
				710	23790	20.29	22	0-2
				711	23800	20.30	22	0-2
			12	709	23780	20.38	22	0-2
				710	23790	20.23	22	0-2
				711	23800	20.37	22	0-2
			25	709	23780	20.42	22	0-2
				710	23790	20.36	22	0-2
				711	23800	20.31	22	0-2
		50RB		709	23780	20.32	22	0-2
				710	23790	20.17	22	0-2
				711	23800	20.09	22	0-2

FDD Band 17 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	706.5	23755	22.54	24	0
				710	23790	22.31	24	0
				713.5	23825	22.45	24	0
			12	706.5	23755	22.41	24	0
				710	23790	22.44	24	0
				713.5	23825	22.50	24	0
			24	706.5	23755	22.51	24	0
				710	23790	22.62	24	0
				713.5	23825	22.64	24	0
		12 RB	0	706.5	23755	21.66	23	0-1
				710	23790	21.47	23	0-1
				713.5	23825	21.40	23	0-1
			6	706.5	23755	21.59	23	0-1
				710	23790	21.42	23	0-1
				713.5	23825	21.33	23	0-1
			13	706.5	23755	21.57	23	0-1
				710	23790	21.46	23	0-1
				713.5	23825	21.57	23	0-1
		25RB		706.5	23755	21.40	23	0-1
				710	23790	21.30	23	0-1
				713.5	23825	21.29	23	0-1
	16-QAM	1 RB	0	706.5	23755	21.25	23	0-1
				710	23790	21.30	23	0-1
				713.5	23825	21.55	23	0-1
			12	706.5	23755	21.74	23	0-1
				710	23790	21.72	23	0-1
				713.5	23825	21.72	23	0-1
			24	706.5	23755	21.69	23	0-1
				710	23790	21.51	23	0-1
				713.5	23825	21.53	23	0-1
		12 RB	0	706.5	23755	20.72	22	0-2
				710	23790	20.43	22	0-2
				713.5	23825	20.43	22	0-2
			6	706.5	23755	20.67	22	0-2
				710	23790	20.54	22	0-2
				713.5	23825	20.38	22	0-2
			13	706.5	23755	20.65	22	0-2
				710	23790	20.58	22	0-2
				713.5	23825	20.62	22	0-2
		25RB		706.5	23755	20.31	22	0-2
				710	23790	20.33	22	0-2
				713.5	23825	20.33	22	0-2

FDD Band 17 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	709	23780	19.27	19.5	0
				710	23790	19.34	19.5	0
				711	23800	19.25	19.5	0
			25	709	23780	19.20	19.5	0
				710	23790	19.21	19.5	0
				711	23800	19.13	19.5	0
			49	709	23780	19.45	19.5	0
				710	23790	19.39	19.5	0
				711	23800	19.48	19.5	0
		25 RB	0	709	23780	19.19	19.5	0-1
				710	23790	19.11	19.5	0-1
				711	23800	19.05	19.5	0-1
			12	709	23780	19.03	19.5	0-1
				710	23790	19.05	19.5	0-1
				711	23800	19.13	19.5	0-1
			25	709	23780	19.15	19.5	0-1
				710	23790	19.09	19.5	0-1
				711	23800	19.15	19.5	0-1
		50RB		709	23780	19.06	19.5	0-1
				710	23790	19.09	19.5	0-1
				711	23800	19.13	19.5	0-1
	16-QAM	1 RB	0	709	23780	18.92	19.5	0-1
				710	23790	19.40	19.5	0-1
				711	23800	18.89	19.5	0-1
			25	709	23780	18.94	19.5	0-1
				710	23790	19.34	19.5	0-1
				711	23800	18.77	19.5	0-1
			49	709	23780	18.92	19.5	0-1
				710	23790	19.13	19.5	0-1
				711	23800	19.16	19.5	0-1
		25 RB	0	709	23780	18.86	19.5	0-2
				710	23790	18.79	19.5	0-2
				711	23800	18.71	19.5	0-2
			12	709	23780	18.75	19.5	0-2
				710	23790	18.78	19.5	0-2
				711	23800	18.86	19.5	0-2
			25	709	23780	18.84	19.5	0-2
				710	23790	18.80	19.5	0-2
				711	23800	19.04	19.5	0-2
		50RB		709	23780	18.78	19.5	0-2
				710	23790	18.81	19.5	0-2
				711	23800	18.90	19.5	0-2

FDD Band 17 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	706.5	23755	19.31	19.5	0
				710	23790	18.95	19.5	0
				713.5	23825	18.86	19.5	0
			12	706.5	23755	19.24	19.5	0
				710	23790	19.18	19.5	0
				713.5	23825	19.24	19.5	0
			24	706.5	23755	18.91	19.5	0
				710	23790	19.06	19.5	0
				713.5	23825	19.22	19.5	0
		12 RB	0	706.5	23755	19.16	19.5	0-1
				710	23790	19.03	19.5	0-1
				713.5	23825	19.00	19.5	0-1
			6	706.5	23755	19.10	19.5	0-1
				710	23790	19.03	19.5	0-1
				713.5	23825	19.09	19.5	0-1
			13	706.5	23755	19.11	19.5	0-1
				710	23790	19.04	19.5	0-1
				713.5	23825	19.12	19.5	0-1
		25RB		706.5	23755	18.89	19.5	0-1
				710	23790	18.83	19.5	0-1
				713.5	23825	18.88	19.5	0-1
	16-QAM	1 RB	0	706.5	23755	19.20	19.5	0-1
				710	23790	19.02	19.5	0-1
				713.5	23825	18.97	19.5	0-1
			12	706.5	23755	19.10	19.5	0-1
				710	23790	18.93	19.5	0-1
				713.5	23825	19.12	19.5	0-1
			24	706.5	23755	19.07	19.5	0-1
				710	23790	19.18	19.5	0-1
				713.5	23825	19.19	19.5	0-1
		12 RB	0	706.5	23755	19.07	19.5	0-2
				710	23790	18.99	19.5	0-2
				713.5	23825	19.01	19.5	0-2
			6	706.5	23755	19.12	19.5	0-2
				710	23790	18.97	19.5	0-2
				713.5	23825	18.99	19.5	0-2
			13	706.5	23755	19.08	19.5	0-2
				710	23790	18.97	19.5	0-2
				713.5	23825	19.19	19.5	0-2
		25RB		706.5	23755	18.94	19.5	0-2
				710	23790	18.91	19.5	0-2
				713.5	23825	19.00	19.5	0-2

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FDD Band 25 (Full Power)								
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	26140	24.00	24	0
				1882.5	26365	23.51	24	0
				1905	26590	23.17	24	0
			50	1860	26140	23.50	24	0
				1882.5	26365	23.73	24	0
				1905	26590	23.82	24	0
			99	1860	26140	23.68	24	0
				1882.5	26365	23.21	24	0
				1905	26590	22.18	24	0
		50 RB	0	1860	26140	22.42	23	0-1
				1882.5	26365	22.44	23	0-1
				1905	26590	22.39	23	0-1
			25	1860	26140	22.40	23	0-1
				1882.5	26365	22.33	23	0-1
				1905	26590	22.58	23	0-1
			50	1860	26140	22.25	23	0-1
				1882.5	26365	22.31	23	0-1
				1905	26590	22.18	23	0-1
		100RB		1860	26140	22.39	23	0-1
				1882.5	26365	22.24	23	0-1
				1905	26590	22.43	23	0-1
	16-QAM	1 RB	0	1860	26140	22.97	23	0-1
				1882.5	26365	22.70	23	0-1
				1905	26590	22.01	23	0-1
			50	1860	26140	22.89	23	0-1
				1882.5	26365	22.87	23	0-1
				1905	26590	22.87	23	0-1
			99	1860	26140	22.63	23	0-1
				1882.5	26365	22.82	23	0-1
				1905	26590	21.39	23	0-1
		50 RB	0	1860	26140	21.49	22	0-2
				1882.5	26365	21.51	22	0-2
				1905	26590	21.35	22	0-2
			25	1860	26140	21.26	22	0-2
				1882.5	26365	21.41	22	0-2
				1905	26590	21.61	22	0-2
			50	1860	26140	21.21	22	0-2
				1882.5	26365	21.35	22	0-2
				1905	26590	21.26	22	0-2
		100RB		1860	26140	21.39	22	0-2
				1882.5	26365	21.26	22	0-2
				1905	26590	21.37	22	0-2

FDD Band 25 (Full Power)								
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	26115	23.73	24	0
				1882.5	26365	23.46	24	0
				1907.5	26615	23.47	24	0
			36	1857.5	26115	23.75	24	0
				1882.5	26365	23.56	24	0
				1907.5	26615	23.85	24	0
			74	1857.5	26115	23.54	24	0
				1882.5	26365	23.37	24	0
				1907.5	26615	22.01	24	0
		36 RB	0	1857.5	26115	22.46	23	0-1
				1882.5	26365	22.45	23	0-1
				1907.5	26615	22.73	23	0-1
			18	1857.5	26115	22.49	23	0-1
				1882.5	26365	22.38	23	0-1
				1907.5	26615	22.59	23	0-1
			37	1857.5	26115	22.37	23	0-1
				1882.5	26365	22.34	23	0-1
				1907.5	26615	22.09	23	0-1
		75RB		1857.5	26115	22.36	23	0-1
				1882.5	26365	22.40	23	0-1
				1907.5	26615	22.35	23	0-1
	16-QAM	1 RB	0	1857.5	26115	22.60	23	0-1
				1882.5	26365	22.76	23	0-1
				1907.5	26615	22.33	23	0-1
			36	1857.5	26115	22.77	23	0-1
				1882.5	26365	22.93	23	0-1
				1907.5	26615	22.84	23	0-1
			74	1857.5	26115	22.43	23	0-1
				1882.5	26365	22.74	23	0-1
				1907.5	26615	21.02	23	0-1
		36 RB	0	1857.5	26115	21.40	22	0-2
				1882.5	26365	21.51	22	0-2
				1907.5	26615	21.73	22	0-2
			18	1857.5	26115	21.45	22	0-2
				1882.5	26365	21.40	22	0-2
				1907.5	26615	21.63	22	0-2
			37	1857.5	26115	21.36	22	0-2
				1882.5	26365	21.24	22	0-2
				1907.5	26615	21.22	22	0-2
		75RB		1857.5	26115	21.31	22	0-2
				1882.5	26365	21.41	22	0-2
				1907.5	26615	21.34	22	0-2

FDD Band 25 (Full Power)								
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	26090	23.61	24	0
				1882.5	26365	23.76	24	0
				1910	26640	23.84	24	0
			25	1855	26090	23.78	24	0
				1882.5	26365	23.63	24	0
				1910	26640	23.57	24	0
			49	1855	26090	23.62	24	0
				1882.5	26365	23.52	24	0
				1910	26640	22.04	24	0
		25 RB	0	1855	26090	22.52	23	0-1
				1882.5	26365	22.52	23	0-1
				1910	26640	22.77	23	0-1
			12	1855	26090	22.56	23	0-1
				1882.5	26365	22.40	23	0-1
				1910	26640	22.47	23	0-1
			25	1855	26090	22.57	23	0-1
				1882.5	26365	22.49	23	0-1
				1910	26640	21.68	23	0-1
		50RB		1855	26090	22.39	23	0-1
				1882.5	26365	22.27	23	0-1
				1910	26640	22.05	23	0-1
	16-QAM	1 RB	0	1855	26090	22.73	23	0-1
				1882.5	26365	22.95	23	0-1
				1910	26640	22.98	23	0-1
			25	1855	26090	22.97	23	0-1
				1882.5	26365	22.58	23	0-1
				1910	26640	22.84	23	0-1
			49	1855	26090	22.87	23	0-1
				1882.5	26365	22.35	23	0-1
				1910	26640	21.23	23	0-1
		25 RB	0	1855	26090	21.44	22	0-2
				1882.5	26365	21.53	22	0-2
				1910	26640	21.81	22	0-2
			12	1855	26090	21.59	22	0-2
				1882.5	26365	21.41	22	0-2
				1910	26640	21.48	22	0-2
			25	1855	26090	21.51	22	0-2
				1882.5	26365	21.57	22	0-2
				1910	26640	20.66	22	0-2
		50RB		1855	26090	21.35	22	0-2
				1882.5	26365	21.30	22	0-2
				1910	26640	21.23	22	0-2

FDD Band 25 (Full Power)								
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	26065	23.69	24	0
				1882.5	26365	23.75	24	0
				1912.5	26665	23.39	24	0
			12	1852.5	26065	23.70	24	0
				1882.5	26365	23.51	24	0
				1912.5	26665	22.56	24	0
			24	1852.5	26065	23.87	24	0
				1882.5	26365	23.40	24	0
				1912.5	26665	22.11	24	0
		12 RB	0	1852.5	26065	22.70	23	0-1
				1882.5	26365	22.82	23	0-1
				1912.5	26665	22.47	23	0-1
			6	1852.5	26065	22.70	23	0-1
				1882.5	26365	22.59	23	0-1
				1912.5	26665	21.61	23	0-1
			13	1852.5	26065	22.74	23	0-1
				1882.5	26365	22.70	23	0-1
				1912.5	26665	21.23	23	0-1
		25RB		1852.5	26065	22.46	23	0-1
				1882.5	26365	22.40	23	0-1
				1912.5	26665	21.55	23	0-1
	16-QAM	1 RB	0	1852.5	26065	22.96	23	0-1
				1882.5	26365	22.54	23	0-1
				1912.5	26665	22.34	23	0-1
			12	1852.5	26065	22.75	23	0-1
				1882.5	26365	22.51	23	0-1
				1912.5	26665	21.92	23	0-1
			24	1852.5	26065	22.52	23	0-1
				1882.5	26365	22.53	23	0-1
				1912.5	26665	21.11	23	0-1
		12 RB	0	1852.5	26065	21.83	22	0-2
				1882.5	26365	21.71	22	0-2
				1912.5	26665	21.07	22	0-2
			6	1852.5	26065	21.91	22	0-2
				1882.5	26365	21.58	22	0-2
				1912.5	26665	20.77	22	0-2
			13	1852.5	26065	21.78	22	0-2
				1882.5	26365	21.69	22	0-2
				1912.5	26665	20.24	22	0-2
		25RB		1852.5	26065	21.56	22	0-2
				1882.5	26365	21.45	22	0-2
				1912.5	26665	20.58	22	0-2

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FDD Band 25 (Full Power)								
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	26055	23.74	24	0
				1882.5	26365	23.78	24	0
				1913.5	26675	22.62	24	0
			7	1851.5	26055	23.67	24	0
				1882.5	26365	23.41	24	0
				1913.5	26675	22.17	24	0
			14	1851.5	26055	23.77	24	0
				1882.5	26365	23.66	24	0
				1913.5	26675	22.02	24	0
		8 RB	0	1851.5	26055	22.76	23	0-1
				1882.5	26365	22.57	23	0-1
				1913.5	26675	21.41	23	0-1
			4	1851.5	26055	22.69	23	0-1
				1882.5	26365	22.54	23	0-1
				1913.5	26675	21.21	23	0-1
			7	1851.5	26055	22.77	23	0-1
				1882.5	26365	22.60	23	0-1
				1913.5	26675	21.14	23	0-1
		15RB		1851.5	26055	22.62	23	0-1
				1882.5	26365	22.48	23	0-1
				1913.5	26675	21.18	23	0-1
	16-QAM	1 RB	0	1851.5	26055	22.80	23	0-1
				1882.5	26365	22.83	23	0-1
				1913.5	26675	21.96	23	0-1
			7	1851.5	26055	22.73	23	0-1
				1882.5	26365	22.36	23	0-1
				1913.5	26675	21.02	23	0-1
			14	1851.5	26055	22.73	23	0-1
				1882.5	26365	22.86	23	0-1
				1913.5	26675	21.13	23	0-1
		8 RB	0	1851.5	26055	21.79	22	0-2
				1882.5	26365	21.68	22	0-2
				1913.5	26675	20.36	22	0-2
			4	1851.5	26055	21.60	22	0-2
				1882.5	26365	21.51	22	0-2
				1913.5	26675	20.26	22	0-2
			7	1851.5	26055	21.66	22	0-2
				1882.5	26365	21.55	22	0-2
				1913.5	26675	20.07	22	0-2
		15RB		1851.5	26055	21.75	22	0-2
				1882.5	26365	21.47	22	0-2
				1913.5	26675	20.28	22	0-2

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FDD Band 25 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1850.7	26047	22.88	24	0
1.4	QPSK	1 RB	0	1882.5	26365	22.94	24	0
1.4	QPSK	1 RB	0	1914.3	26683	22.12	24	0
1.4	QPSK	1 RB	2	1850.7	26047	22.97	24	0
1.4	QPSK	1 RB	2	1882.5	26365	22.86	24	0
1.4	QPSK	1 RB	2	1914.3	26683	22.15	24	0
1.4	QPSK	1 RB	5	1850.7	26047	22.96	24	0
1.4	QPSK	1 RB	5	1882.5	26365	22.81	24	0
1.4	QPSK	1 RB	5	1914.3	26683	22.02	24	0
1.4	QPSK	3 RB	0	1850.7	26047	22.89	23	0-1
1.4	QPSK	3 RB	0	1882.5	26365	22.63	23	0-1
1.4	QPSK	3 RB	0	1914.3	26683	21.33	23	0-1
1.4	QPSK	3 RB	2	1850.7	26047	22.87	23	0-1
1.4	QPSK	3 RB	2	1882.5	26365	22.88	23	0-1
1.4	QPSK	3 RB	2	1914.3	26683	21.17	23	0-1
1.4	QPSK	3 RB	3	1850.7	26047	22.86	23	0-1
1.4	QPSK	3 RB	3	1882.5	26365	22.80	23	0-1
1.4	QPSK	3 RB	3	1914.3	26683	21.19	23	0-1
1.4	QPSK	6RB		1850.7	26047	21.94	23	0-1
1.4	QPSK	6RB		1882.5	26365	21.90	23	0-1
1.4	QPSK	6RB		1914.3	26683	21.04	23	0-1
1.4	16-QAM	1 RB	0	1850.7	26047	22.33	23	0-1
1.4	16-QAM	1 RB	0	1882.5	26365	21.90	23	0-1
1.4	16-QAM	1 RB	0	1914.3	26683	21.04	23	0-1
1.4	16-QAM	1 RB	2	1850.7	26047	21.66	23	0-1
1.4	16-QAM	1 RB	2	1882.5	26365	21.74	23	0-1
1.4	16-QAM	1 RB	2	1914.3	26683	21.01	23	0-1
1.4	16-QAM	1 RB	5	1850.7	26047	21.71	23	0-1
1.4	16-QAM	1 RB	5	1882.5	26365	21.71	23	0-1
1.4	16-QAM	1 RB	5	1914.3	26683	21.07	23	0-1
1.4	16-QAM	3 RB	0	1850.7	26047	21.97	22	0-2
1.4	16-QAM	3 RB	0	1882.5	26365	21.82	22	0-2
1.4	16-QAM	3 RB	0	1914.3	26683	20.30	22	0-2
1.4	16-QAM	3 RB	2	1850.7	26047	21.99	22	0-2
1.4	16-QAM	3 RB	2	1882.5	26365	21.77	22	0-2
1.4	16-QAM	3 RB	2	1914.3	26683	20.34	22	0-2
1.4	16-QAM	3 RB	3	1850.7	26047	21.98	22	0-2
1.4	16-QAM	3 RB	3	1882.5	26365	21.83	22	0-2
1.4	16-QAM	3 RB	3	1914.3	26683	20.29	22	0-2
1.4	16-QAM	6RB		1850.7	26047	20.98	22	0-2
1.4	16-QAM	6RB		1882.5	26365	20.98	22	0-2
1.4	16-QAM	6RB		1914.3	26683	20.09	22	0-2

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FDD Band 25 (Reduced Power)								
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	26140	13.46	13.5	0
				1882.5	26365	13.17	13.5	0
				1905	26590	13.18	13.5	0
			50	1860	26140	13.19	13.5	0
				1882.5	26365	13.08	13.5	0
				1905	26590	13.47	13.5	0
			99	1860	26140	12.98	13.5	0
				1882.5	26365	12.85	13.5	0
				1905	26590	11.74	13.5	0
		50 RB	0	1860	26140	13.33	13.5	0-1
				1882.5	26365	13.17	13.5	0-1
				1905	26590	13.27	13.5	0-1
			25	1860	26140	13.11	13.5	0-1
				1882.5	26365	13.20	13.5	0-1
				1905	26590	13.29	13.5	0-1
			50	1860	26140	13.05	13.5	0-1
				1882.5	26365	12.98	13.5	0-1
				1905	26590	12.87	13.5	0-1
		100RB		1860	26140	13.17	13.5	0-1
				1882.5	26365	13.10	13.5	0-1
				1905	26590	13.05	13.5	0-1
	16-QAM	1 RB	0	1860	26140	12.98	13.5	0-1
				1882.5	26365	13.17	13.5	0-1
				1905	26590	12.44	13.5	0-1
			50	1860	26140	12.60	13.5	0-1
				1882.5	26365	12.36	13.5	0-1
				1905	26590	13.39	13.5	0-1
			99	1860	26140	12.52	13.5	0-1
				1882.5	26365	12.52	13.5	0-1
				1905	26590	11.67	13.5	0-1
		50 RB	0	1860	26140	12.50	13.5	0-2
				1882.5	26365	12.42	13.5	0-2
				1905	26590	12.65	13.5	0-2
			25	1860	26140	12.39	13.5	0-2
				1882.5	26365	12.49	13.5	0-2
				1905	26590	12.62	13.5	0-2
			50	1860	26140	12.27	13.5	0-2
				1882.5	26365	12.33	13.5	0-2
				1905	26590	12.19	13.5	0-2
		100RB		1860	26140	12.42	13.5	0-2
				1882.5	26365	12.42	13.5	0-2
				1905	26590	12.29	13.5	0-2

FDD Band 25 (Reduced Power)								
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	26115	13.01	13.5	0
				1882.5	26365	12.84	13.5	0
				1907.5	26615	13.01	13.5	0
			36	1857.5	26115	12.91	13.5	0
				1882.5	26365	12.79	13.5	0
				1907.5	26615	13.09	13.5	0
			74	1857.5	26115	12.70	13.5	0
				1882.5	26365	12.59	13.5	0
				1907.5	26615	11.51	13.5	0
		36 RB	0	1857.5	26115	12.99	13.5	0-1
				1882.5	26365	12.82	13.5	0-1
				1907.5	26615	13.15	13.5	0-1
			18	1857.5	26115	12.92	13.5	0-1
				1882.5	26365	12.80	13.5	0-1
				1907.5	26615	12.91	13.5	0-1
			37	1857.5	26115	12.77	13.5	0-1
				1882.5	26365	12.70	13.5	0-1
				1907.5	26615	12.37	13.5	0-1
		75RB		1857.5	26115	12.91	13.5	0-1
				1882.5	26365	12.72	13.5	0-1
				1907.5	26615	12.70	13.5	0-1
	16-QAM	1 RB	0	1857.5	26115	13.18	13.5	0-1
				1882.5	26365	12.71	13.5	0-1
				1907.5	26615	12.90	13.5	0-1
			36	1857.5	26115	12.71	13.5	0-1
				1882.5	26365	12.64	13.5	0-1
				1907.5	26615	13.13	13.5	0-1
			74	1857.5	26115	12.48	13.5	0-1
				1882.5	26365	12.67	13.5	0-1
				1907.5	26615	11.50	13.5	0-1
		36 RB	0	1857.5	26115	12.89	13.5	0-2
				1882.5	26365	12.59	13.5	0-2
				1907.5	26615	12.96	13.5	0-2
			18	1857.5	26115	12.74	13.5	0-2
				1882.5	26365	12.57	13.5	0-2
				1907.5	26615	12.77	13.5	0-2
			37	1857.5	26115	12.51	13.5	0-2
				1882.5	26365	12.62	13.5	0-2
				1907.5	26615	12.12	13.5	0-2
		75RB		1857.5	26115	12.63	13.5	0-2
				1882.5	26365	12.62	13.5	0-2
				1907.5	26615	12.43	13.5	0-2

FDD Band 25 (Reduced Power)								
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	26090	12.96	13.5	0
				1882.5	26365	12.80	13.5	0
				1910	26640	13.18	13.5	0
			25	1855	26090	12.85	13.5	0
				1882.5	26365	12.56	13.5	0
				1910	26640	12.51	13.5	0
			49	1855	26090	12.58	13.5	0
				1882.5	26365	12.45	13.5	0
				1910	26640	11.51	13.5	0
		25 RB	0	1855	26090	12.85	13.5	0-1
				1882.5	26365	12.79	13.5	0-1
				1910	26640	12.76	13.5	0-1
			12	1855	26090	12.89	13.5	0-1
				1882.5	26365	12.64	13.5	0-1
				1910	26640	12.61	13.5	0-1
			25	1855	26090	12.76	13.5	0-1
				1882.5	26365	12.55	13.5	0-1
				1910	26640	11.69	13.5	0-1
		50RB		1855	26090	12.83	13.5	0-1
				1882.5	26365	12.68	13.5	0-1
				1910	26640	12.40	13.5	0-1
	16-QAM	1 RB	0	1855	26090	12.65	13.5	0-1
				1882.5	26365	12.73	13.5	0-1
				1910	26640	13.08	13.5	0-1
			25	1855	26090	13.19	13.5	0-1
				1882.5	26365	12.72	13.5	0-1
				1910	26640	12.40	13.5	0-1
			49	1855	26090	13.33	13.5	0-1
				1882.5	26365	12.59	13.5	0-1
				1910	26640	11.61	13.5	0-1
		25 RB	0	1855	26090	12.98	13.5	0-2
				1882.5	26365	12.75	13.5	0-2
				1910	26640	12.92	13.5	0-2
			12	1855	26090	13.01	13.5	0-2
				1882.5	26365	12.68	13.5	0-2
				1910	26640	12.56	13.5	0-2
			25	1855	26090	12.90	13.5	0-2
				1882.5	26365	12.70	13.5	0-2
				1910	26640	11.67	13.5	0-2
		50RB		1855	26090	13.00	13.5	0-2
				1882.5	26365	12.70	13.5	0-2
				1910	26640	12.32	13.5	0-2

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FDD Band 25 (Reduced Power)								
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	26065	13.03	13.5	0
				1882.5	26365	12.95	13.5	0
				1912.5	26665	12.47	13.5	0
			12	1852.5	26065	12.91	13.5	0
				1882.5	26365	12.77	13.5	0
				1912.5	26665	11.64	13.5	0
			24	1852.5	26065	12.90	13.5	0
				1882.5	26365	12.68	13.5	0
				1912.5	26665	11.71	13.5	0
		12 RB	0	1852.5	26065	13.05	13.5	0-1
				1882.5	26365	12.84	13.5	0-1
				1912.5	26665	11.89	13.5	0-1
			6	1852.5	26065	12.90	13.5	0-1
				1882.5	26365	12.81	13.5	0-1
				1912.5	26665	11.55	13.5	0-1
			13	1852.5	26065	12.91	13.5	0-1
				1882.5	26365	12.76	13.5	0-1
				1912.5	26665	11.55	13.5	0-1
		25RB		1852.5	26065	12.98	13.5	0-1
				1882.5	26365	12.73	13.5	0-1
				1912.5	26665	11.58	13.5	0-1
	16-QAM	1 RB	0	1852.5	26065	13.33	13.5	0-1
				1882.5	26365	13.40	13.5	0-1
				1912.5	26665	12.92	13.5	0-1
			12	1852.5	26065	12.88	13.5	0-1
				1882.5	26365	12.97	13.5	0-1
				1912.5	26665	11.58	13.5	0-1
			24	1852.5	26065	12.58	13.5	0-1
				1882.5	26365	13.32	13.5	0-1
				1912.5	26665	11.67	13.5	0-1
		12 RB	0	1852.5	26065	12.95	13.5	0-2
				1882.5	26365	12.85	13.5	0-2
				1912.5	26665	11.83	13.5	0-2
			6	1852.5	26065	12.87	13.5	0-2
				1882.5	26365	12.73	13.5	0-2
				1912.5	26665	11.53	13.5	0-2
			13	1852.5	26065	12.88	13.5	0-2
				1882.5	26365	12.81	13.5	0-2
				1912.5	26665	11.54	13.5	0-2
		25RB		1852.5	26065	12.98	13.5	0-2
				1882.5	26365	12.76	13.5	0-2
				1912.5	26665	11.56	13.5	0-2

FDD Band 25 (Reduced Power)								
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	26055	13.06	13.5	0
				1882.5	26365	12.81	13.5	0
				1913.5	26675	11.54	13.5	0
			7	1851.5	26055	13.05	13.5	0
				1882.5	26365	12.72	13.5	0
				1913.5	26675	11.57	13.5	0
			14	1851.5	26055	12.82	13.5	0
				1882.5	26365	12.69	13.5	0
				1913.5	26675	11.87	13.5	0
		8 RB	0	1851.5	26055	13.06	13.5	0-1
				1882.5	26365	12.87	13.5	0-1
				1913.5	26675	11.52	13.5	0-1
			4	1851.5	26055	12.98	13.5	0-1
				1882.5	26365	12.82	13.5	0-1
				1913.5	26675	11.58	13.5	0-1
			7	1851.5	26055	12.96	13.5	0-1
				1882.5	26365	12.83	13.5	0-1
				1913.5	26675	11.52	13.5	0-1
		15RB		1851.5	26055	13.01	13.5	0-1
				1882.5	26365	12.75	13.5	0-1
				1913.5	26675	11.67	13.5	0-1
	16-QAM	1 RB	0	1851.5	26055	13.03	13.5	0-1
				1882.5	26365	12.79	13.5	0-1
				1913.5	26675	11.70	13.5	0-1
			7	1851.5	26055	13.02	13.5	0-1
				1882.5	26365	13.31	13.5	0-1
				1913.5	26675	11.64	13.5	0-1
			14	1851.5	26055	13.01	13.5	0-1
				1882.5	26365	13.12	13.5	0-1
				1913.5	26675	11.58	13.5	0-1
		8 RB	0	1851.5	26055	12.96	13.5	0-2
				1882.5	26365	12.99	13.5	0-2
				1913.5	26675	11.62	13.5	0-2
			4	1851.5	26055	13.01	13.5	0-2
				1882.5	26365	12.86	13.5	0-2
				1913.5	26675	11.66	13.5	0-2
			7	1851.5	26055	12.97	13.5	0-2
				1882.5	26365	12.88	13.5	0-2
				1913.5	26675	11.60	13.5	0-2
		15RB		1851.5	26055	12.98	13.5	0-2
				1882.5	26365	12.79	13.5	0-2
				1913.5	26675	11.66	13.5	0-2

FDD Band 25 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1850.7	26047	13.04	13.5	0
				1882.5	26365	12.76	13.5	0
				1914.3	26683	11.55	13.5	0
			2	1850.7	26047	13.06	13.5	0
				1882.5	26365	12.80	13.5	0
				1914.3	26683	11.65	13.5	0
			5	1850.7	26047	12.96	13.5	0
				1882.5	26365	12.70	13.5	0
				1914.3	26683	11.71	13.5	0
		3 RB	0	1850.7	26047	12.98	13.5	0-1
				1882.5	26365	12.88	13.5	0-1
				1914.3	26683	11.64	13.5	0-1
			2	1850.7	26047	13.13	13.5	0-1
				1882.5	26365	12.80	13.5	0-1
				1914.3	26683	11.64	13.5	0-1
			3	1850.7	26047	12.98	13.5	0-1
				1882.5	26365	12.72	13.5	0-1
				1914.3	26683	12.01	13.5	0-1
		6RB		1850.7	26047	12.98	13.5	0-1
				1882.5	26365	12.80	13.5	0-1
				1914.3	26683	12.04	13.5	0-1
	16-QAM	1 RB	0	1850.7	26047	13.12	13.5	0-1
				1882.5	26365	13.07	13.5	0-1
				1914.3	26683	12.47	13.5	0-1
			2	1850.7	26047	12.55	13.5	0-1
				1882.5	26365	13.27	13.5	0-1
				1914.3	26683	11.52	13.5	0-1
			5	1850.7	26047	13.09	13.5	0-1
				1882.5	26365	12.70	13.5	0-1
				1914.3	26683	11.57	13.5	0-1
		3 RB	0	1850.7	26047	13.05	13.5	0-2
				1882.5	26365	12.80	13.5	0-2
				1914.3	26683	11.65	13.5	0-2
			2	1850.7	26047	13.08	13.5	0-2
				1882.5	26365	12.77	13.5	0-2
				1914.3	26683	11.66	13.5	0-2
			3	1850.7	26047	12.95	13.5	0-2
				1882.5	26365	12.79	13.5	0-2
				1914.3	26683	11.75	13.5	0-2
		6RB		1850.7	26047	12.91	13.5	0-2
				1882.5	26365	12.91	13.5	0-2
				1914.3	26683	11.51	13.5	0-2

CDMA conducted power table:

Band	Channel	Frequency (MHz)	Tune-up tolerance	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
CDMA (BC0)	1013	824.7	24.50	22.95	23.03	22.91	22.97	23.46	23.04
	384	836.52	24.50	23.15	23.08	23.04	23.07	23.55	23.15
	777	848.31	24.50	23.55	23.47	23.32	23.42	23.71	23.55
CDMA (BC1)	25	1851.25	24.50	23.88	23.87	23.62	23.73	23.91	23.38
	600	1880	24.50	23.97	23.92	23.76	23.79	24.00	23.42
	1175	1908.75	24.50	23.75	23.71	23.63	23.52	23.84	23.54

CDMA conducted power table (Reduced power):

Band	Channel	Frequency (MHz)	Tune-up tolerance	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
CDMA (BC0)	1013	824.7	19.00	18.39	18.41	18.45	18.32	18.82	18.56
	384	836.52	19.00	18.41	18.44	18.42	18.37	18.86	18.64
	777	848.31	19.00	18.55	18.56	18.47	18.44	18.94	18.77
CDMA (BC1)	25	1851.25	12.50	12.21	12.15	12.18	12.17	12.41	12.34
	600	1880	12.50	12.24	12.25	12.17	12.17	12.44	12.35
	1175	1908.75	12.50	12.28	12.26	12.21	12.23	12.48	12.41

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

Antenna / Band	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 Antenna (CH0)

802.11 b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			5.5
1	2412	16	15.95
6	2437	16	15.67
11	2462	16	15.81

802.11 g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6
1	2412	14	13.95
2	2417	15.5	15.44
6	2437	16.5	16.32
10	2457	15.5	15.41
11	2462	12.5	12.22

Main Antenna (CH0)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
1	2412	14	13.86
2	2417	15.5	15.41
6	2437	16.5	16.22
10	2457	15.5	15.37
11	2462	12.5	12.14

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
3	2422	13.5	13.37
4	2427	14.5	14.24
6	2437	16.5	16.27
8	2447	13.5	13.42
9	2452	12.5	12.22

Main Antenna (CH0)

802.11 a		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		6
36	5180	12.5	12.24
40	5200	12.5	12.28
44	5220	12.5	12.31
48	5240	12.5	12.27
52	5260	12.5	12.26
56	5280	12.5	12.25
60	5300	12.5	12.33
64	5320	12.5	12.13
100	5500	12.5	12.18
104	5520	12.5	12.28
108	5540	12.5	12.29
112	5560	12.5	12.26
116	5580	12.5	12.17
132	5660	12.5	12.21
136	5680	12.5	12.14
140	5700	12.5	12.31
149	5745	12.5	12.32
153	5765	12.5	12.38
157	5785	12.5	12.37
161	5805	12.5	12.28
165	5825	12.5	12.34

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Main Antenna (CH0)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
36	5180	12.5	12.12
40	5200	12.5	12.08
44	5220	12.5	12.03
48	5240	12.5	12.34
52	5260	12.5	12.13
56	5280	12.5	12.04
60	5300	12.5	12.02
64	5320	12.5	12.03
100	5500	12.5	12.01
104	5520	12.5	12.05
108	5540	12.5	12.08
112	5560	12.5	12.03
116	5580	12.5	12.22
132	5660	12.5	12.06
136	5680	12.5	12.24
140	5700	12.5	12.07
149	5745	12.5	12.14
153	5765	12.5	12.00
157	5785	12.5	12.01
161	5805	12.5	12.00
165	5825	12.5	12.16

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Main Antenna (CH0)

802.11 n(40M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps) 13.5
38	5190	12	11.93
46	5230	12.5	12.25
54	5270	12.5	12.24
62	5310	12.5	12.14
102	5510	12.5	12.22
110	5550	12.5	12.33
134	5670	12.5	12.26
151	5755	12.5	12.27
159	5795	12.5	12.20

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Main Antenna (CH0)

802.11 ac(20M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
36	5180	12.5	12.19
40	5200	12.5	12.39
44	5220	12.5	12.34
48	5240	12.5	12.18
52	5260	12.5	12.10
56	5280	12.5	12.09
60	5300	12.5	12.08
64	5320	12.5	12.07
100	5500	12.5	12.11
104	5520	12.5	12.05
108	5540	12.5	12.04
112	5560	12.5	12.27
116	5580	12.5	12.23
132	5660	12.5	12.04
136	5680	12.5	12.17
140	5700	12.5	12.01
144	5720	12.5	12.15
149	5745	12.5	12.03
153	5765	12.5	12.35
157	5785	12.5	12.24
161	5805	12.5	12.16
165	5825	12.5	12.30

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Main Antenna (CH0)

802.11 ac(40M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
38	5190	12	11.95
46	5230	12.5	12.30
54	5270	12.5	12.32
62	5310	12.5	12.28
102	5510	12.5	12.32
110	5550	12.5	12.44
134	5670	12.5	12.43
142	5710	12.5	12.14
151	5755	12.5	12.39
159	5795	12.5	12.36

802.11 ac(80M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			29.3
42	5210	12.5	12.15
58	5290	12.5	12.04
106	5530	12.5	12.02
138	5690	12.5	12.04
155	5775	12.5	12.12

#. Per FCC KDB443999, transmission on channels which overlap the 5600-5650 MHz is prohibited as a client.

Aux Antenna (CH1)

802.11 b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		5.5
1	2412	16	15.78
6	2437	16	15.61
11	2462	16	15.71

802.11 g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		6
1	2412	14.5	13.92
2	2417	15.5	15.37
6	2437	16.5	16.18
10	2457	15.5	15.36
11	2462	12.5	12.12

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
1	2412	14.5	13.81
2	2417	15.5	15.21
6	2437	16.5	16.14
10	2457	15.5	15.34
11	2462	12.5	12.11

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Aux Antenna (CH1)

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
3	2422	13.5	13.24
4	2427	14.5	14.21
6	2437	16.5	16.15
8	2447	12.5	12.13
9	2452	11.5	11.33

Aux Antenna (CH1)

802.11 a 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps) 6
36	5180	12.5	12.33
40	5200	12.5	12.40
44	5220	12.5	12.41
48	5240	12.5	12.36
52	5260	12.5	12.36
56	5280	12.5	12.33
60	5300	12.5	12.41
64	5320	12.5	12.21
100	5500	12.5	12.29
104	5520	12.5	12.40
108	5540	12.5	12.39
112	5560	12.5	12.35
116	5580	12.5	12.28
132	5660	12.5	12.31
136	5680	12.5	12.24
140	5700	12.5	12.39
149	5745	12.5	12.39
153	5765	12.5	12.47
157	5785	12.5	12.45
161	5805	12.5	12.39
165	5825	12.5	12.42

Aux Antenna (CH1)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
36	5180	12.5	12.24
40	5200	12.5	12.18
44	5220	12.5	12.24
48	5240	12.5	12.43
52	5260	12.5	12.23
56	5280	12.5	12.14
60	5300	12.5	12.12
64	5320	12.5	12.18
100	5500	12.5	12.17
104	5520	12.5	12.12
108	5540	12.5	12.15
112	5560	12.5	12.10
116	5580	12.5	12.42
132	5660	12.5	12.11
136	5680	12.5	12.34
140	5700	12.5	12.17
149	5745	12.5	12.23
153	5765	12.5	12.12
157	5785	12.5	12.05
161	5805	12.5	12.04
165	5825	12.5	12.43

Aux Antenna (CH1)

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		13.5
38	5190	12.5	12.32
46	5230	12.5	12.31
54	5270	12.5	12.31
62	5310	12.5	12.25
102	5510	12.5	12.29
110	5550	12.5	12.42
134	5670	12.5	12.41
151	5755	12.5	12.38
159	5795	12.5	12.33

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Aux Antenna (CH1)

802.11 ac(20M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
36	5180	12.5	12.35
40	5200	12.5	12.42
44	5220	12.5	12.37
48	5240	12.5	12.35
52	5260	12.5	12.34
56	5280	12.5	12.33
60	5300	12.5	12.41
64	5320	12.5	12.22
100	5500	12.5	12.31
104	5520	12.5	12.38
108	5540	12.5	12.40
112	5560	12.5	12.36
116	5580	12.5	12.27
132	5660	12.5	12.32
136	5680	12.5	12.21
140	5700	12.5	12.39
144	5720	12.5	12.24
149	5745	12.5	12.38
153	5765	12.5	12.46
157	5785	12.5	12.45
161	5805	12.5	12.37
165	5825	12.5	12.40

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Aux Antenna (CH1)

802.11 ac(40M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
38	5190	12.5	12.37
46	5230	12.5	12.34
54	5270	12.5	12.36
62	5310	12.5	12.32
102	5510	12.5	12.34
110	5550	12.5	12.46
134	5670	12.5	12.45
142	5710	12.5	12.23
151	5755	12.5	12.44
159	5795	12.5	12.39

802.11 ac(80M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			29.3
42	5210	12.5	12.22
58	5290	12.5	12.23
106	5530	12.5	12.26
138	5690	12.5	12.19
155	5775	12.5	12.34

#. Per FCC KDB443999, transmission on channels which overlap the 5600-5650 MHz is prohibited as a client.

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MIMO (CH0 + CH1)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
1	2412	12	11.98
2	2417	13.5	13.26
6	2437	13.5	13.35
10	2457	13.5	13.28
11	2462	12	11.89

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
3	2422	9.5	9.47
4	2427	12	11.92
6	2437	13.5	13.32
8	2447	11.5	11.02
9	2452	9.5	9.43

MIMO (CH0 + CH1)

802.11 n(20M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps) 6.5
36	5180	10.5	10.19
40	5200	10.5	10.22
44	5220	10.5	10.15
48	5240	10.5	10.08
52	5260	10.5	9.94
56	5280	10.5	10.02
60	5300	10.5	10.05
64	5320	10.5	10.11
100	5500	10.5	10.18
104	5520	10.5	10.15
108	5540	10.5	10.15
112	5560	10.5	10.15
116	5580	10.5	10.11
132	5660	10.5	10.10
136	5680	10.5	10.04
140	5700	10.5	10.02
149	5745	10.5	10.06
153	5765	10.5	10.14
157	5785	10.5	10.12
161	5805	10.5	10.08
165	5825	10.5	10.02

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MIMO (CH0+CH1)

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		13.5
38	5190	10	9.68
46	5230	10.5	10.08
54	5270	10.5	9.94
62	5310	10.5	10.03
102	5510	10.5	10.08
110	5550	10.5	10.17
134	5670	10.5	10.17
151	5755	10.5	10.14
159	5795	10.5	10.10

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MIMO (CH0+CH1)

802.11 ac(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)
CH	Frequency (MHz)		6.5
36	5180	10.5	10.23
40	5200	10.5	10.28
44	5220	10.5	10.19
48	5240	10.5	10.14
52	5260	10.5	10.00
56	5280	10.5	10.07
60	5300	10.5	10.10
64	5320	10.5	10.15
100	5500	10.5	10.24
104	5520	10.5	10.20
108	5540	10.5	10.21
112	5560	10.5	10.20
116	5580	10.5	10.16
132	5660	10.5	10.16
136	5680	10.5	10.10
140	5700	10.5	10.07
144	5720	10.5	10.48
149	5745	10.5	10.12
153	5765	10.5	10.20
157	5785	10.5	10.18
161	5805	10.5	10.13
165	5825	10.5	10.08

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MIMO (CH0+CH1)

802.11 ac(40M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		13.5
38	5190	10	9.76
46	5230	10.5	10.16
54	5270	10.5	10.01
62	5310	10.5	10.10
102	5510	10.5	10.15
110	5550	10.5	10.24
134	5670	10.5	10.24
142	5710	10.5	10.42
151	5755	10.5	10.21
159	5795	10.5	10.18

802.11 ac(80M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
			Data Rate (Mbps)
CH	Frequency (MHz)		29.3
42	5210	10.5	10.28
58	5290	10.5	10.38
106	5530	10.5	10.35
138	5690	10.5	10.29
155	5775	10.5	10.30

#. Per FCC KDB443999, transmission on channels which overlap the 5600-5650 MHz is prohibited as a client.

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#. Bluetooth conducted power table:

Frequency (MHz)	Data Rate	Peak	
		dBm	mW
2402	1	4.41	2.761
2441	1	4.37	2.735
2480	1	4.31	2.698
2402	2	2.91	1.954
2441	2	2.86	1.932
2480	2	2.8	1.905
2402	3	2	1.585
2441	3	1.99	1.581
2480	3	1.96	1.570

Frequency (MHz)	Avg. (dBm)
	BT4.0
2402	1.01
2442	1.27
2480	0.71

1.4 Test Environment

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

1.5 Operation Description

1. WWAN (GPRS/EDGE/WCDMA/HSDPA/HSUPA/LTE):

The EUT is controlled by using Radio Communication Tester(R&S CMU200), and the communication between the EUT and the tester is established by air link. The EUT was tested in three configurations:

Configuration 1: Back side_0mm with power reduction and_25mm without power reduction.

Configuration 2: Top side_0mm with power reduction and_5mm without power reduction.

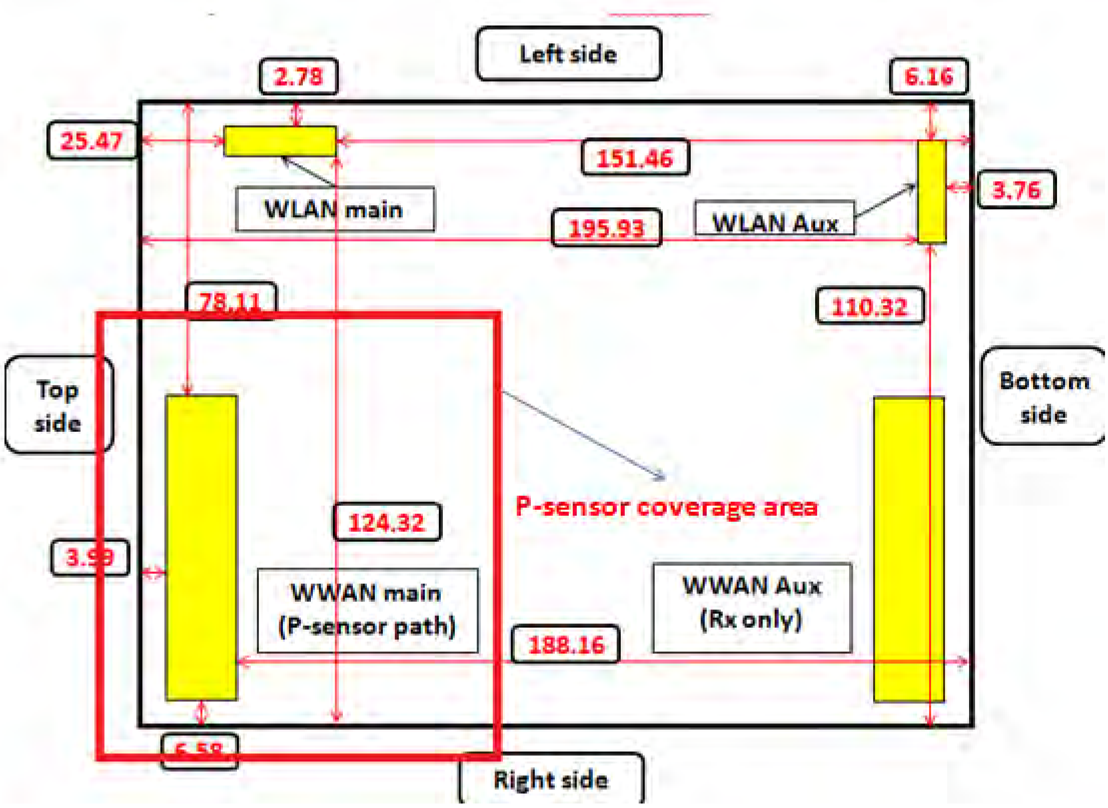
Configuration 3: Right side_0mm with power reduction and_4mm without power reduction.

Band	Power Reduction
GPRS850	YES
EDGE850	YES
GPRS1900	YES
EDGE1900	YES
WCDMA B2	YES
WCDMA B4	YES
WCDMA B5	YES
CDMA BC0	YES
CDMA BC1	YES
LTE B2/4/5/13/17/25	YES
WLAN	NO
BT	NO

2. WLAN (802.11 a/b/g/n/ac):

Use chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT was tested in five configurations:

Configurations: Back/Bottom/Left sides_0mm.



Back view of the tablet

(Note:The proximity sensor is collocated with WWAN antenna.)

Note:

1. The SAR test of GPRS was performed on the maximum sourced-based time-averaged power.

2. The SAR measurement is not required for HSDPA/HSPA since its maximum output power is less than ¼ dB higher than RMC without HSDPA/HSPA.

3. Body SAR was 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.

4. For this Ev-Do data device that also support 1x RTT data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with Ev-Do Rev. 0, Rev. A as the respective primary modes.(Since SAR is not required for Ev-Do Rev. A, only Rev. 0 need consideration as the primary mode.)

5. LTE modes test according to **FCC KDB 941225 D05v02r03.**
   a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
      - Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
      - When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
      - When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

   b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
      - The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

   c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
      - For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
      - Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

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d. Per Section 5.2.4, Higher order modulations

- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

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

- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.
- The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

6. The SAR measurement is required for 802.11g/n since its maximum output power is higher than 1/4 dB higher than 802.11b.

7. For IEEE802.11n/ac, SAR testing can be conducted on channel with the highest output power when taking into consideration tune-up tolerance for same test configuration that was identified during SAR evaluations for IEEE802.11b/g and IEEE802.11a (as applicable) provided bandwidth and test position are the same.

8. For IEEE802.11n/ac with multiple channel BW configurations, highest channel BW configuration with highest output power limit was tested.

9. Testing of lower BW configurations is not required when the maximum average output of the default test channels in each lower BW configuration is less than 1/4dB higher than the default test channel in the highest BW configuration.

10. Testing at higher data rates is not required since the maximum output power is less than 1/4 dB higher than those measured at the lowest data rate.

11. BT and WLAN Main share the same antenna path and BT may transmit simultaneously with WLAN Aux antenna.

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12. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission (for 802.11n/ac) is much less than that used in standalone transmission (802.11a/b/g/n/ac), so it is more conservative to use the sum of 1-g SAR provision in KDB447498D01 to exclude the SAR measurement for 802.11n MIMO.

13. According to KDB447498 D01,

(1) The SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:

$$\frac{\text{Max. tune up power(mW)}}{\text{Min. test separation distance(mm)}} \times \sqrt{f(\text{GHz})} \leq 3$$

When the minimum test separation distance is < 5mm, 5mm is applied to determine SAR test exclusion.

(2) For test separation distances > 50 mm, and the frequency at 100 MHz to 1500MHz, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B of KDB447498 D01.

[(Threshold at 50mm in step1) + (test separation distance-50mm)x($\frac{f(\text{MHz})}{150}$)](mW),

(3) For test separation distances > 50 mm, and the frequency at >1500MHz to 6GHz, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B of KDB447498 D01.

[(Threshold at 50mm in step1) + (test separation distance-50mm)x10](mW),

Mode	Max. tune-up power(dBm)	Max. tune-up power(mW)	Top side			Right side			Left side		
			Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?
GPRS850 class10	33	1995.262	less than 5	367.692	YES	6.58	279.4	YES	78.11	195.872	NO
GPRS1900 class10	30.5	1122.018	less than 5	310.132	YES	6.58	235.663	YES	78.11	312.113	NO
WCDMA B2	24.5	281.838	less than 5	77.861	YES	6.58	59.165	YES	78.11	288.886	NO
WCDMA B4	24.5	281.838	less than 5	74.631	YES	6.58	56.711	YES	78.11	288.563	NO
WCDMA B5	24.5	281.838	less than 5	51.877	YES	6.58	39.42	YES	78.11	163.915	NO
Cellular BC0 1xEVDO	24.5	281.838	less than 5	51.917	YES	6.58	39.45	YES	78.11	164.165	NO
Cellular BC1 1xEVDO	24.5	281.838	less than 5	77.881	YES	6.58	59.18	YES	78.11	288.888	NO
LTE Band 2	24	251.189	less than 5	69.248	YES	6.58	52.62	YES	78.11	288.025	NO
LTE Band 4	24	251.189	less than 5	66.363	YES	6.58	50.428	YES	78.11	287.736	NO
LTE Band 5	24	251.189	less than 5	46.153	YES	6.58	35.071	YES	78.11	162.781	NO
LTE Band 13	24	251.189	less than 5	44.426	YES	6.58	33.758	YES	78.11	150.989	NO
LTE Band 17	24	251.189	less than 5	42.361	YES	6.58	32.189	YES	78.11	137.477	NO
LTE Band 25	24	251.189	less than 5	69.339	YES	6.58	52.689	YES	78.11	288.034	NO
WLAN Main 2.45GHz	16.5	44.668	25.47	2.752	NO	124.32	744.602	NO	less than 5	14.018	YES
WLAN Main 5GHz	12.5	17.783	25.47	1.685	NO	124.32	744.058	NO	less than 5	8.584	YES
WLAN Aux 2.45GHz	16.5	44.668	195.93	1460.702	NO	110.32	604.602	NO	6.16	11.378	YES
WLAN Aux 5GHz	12.5	17.783	195.93	1460.158	NO	110.32	604.058	NO	6.16	6.967	YES

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Mode	Max. tune-up power(dBm)	Max. tune-up power(mW)	Bottom side			Back side		
			Ant. to surface(mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface(mm)	Exclusion threshold (mW)	Require SAR testing?
GPRS850 class10	33	1995.262	188.16	818.755	NO	less than 5	367.692	YES
GPRS1900 class10	30.5	1122.018	188.16	1412.613	NO	less than 5	310.132	YES
WCDMA B2	24.5	281.838	188.16	1389.386	NO	less than 5	77.861	YES
WCDMA B4	24.5	281.838	188.16	1389.063	NO	less than 5	74.631	YES
WCDMA B5	24.5	281.838	188.16	785.331	NO	less than 5	51.877	YES
Cellular BC0 1xEVDO	24.5	281.838	188.16	786.542	NO	less than 5	51.917	YES
Cellular BC1 1xEVDO	24.5	281.838	188.16	1389.388	NO	less than 5	77.881	YES
LTE Band 2	24	251.189	188.16	1388.525	NO	less than 5	69.248	YES
LTE Band 4	24	251.189	188.16	1388.236	NO	less than 5	66.363	YES
LTE Band 5	24	251.189	188.16	781.996	NO	less than 5	46.153	YES
LTE Band 13	24	251.189	188.16	724.717	NO	less than 5	44.426	YES
LTE Band 17	24	251.189	188.16	659.114	NO	less than 5	42.361	YES
LTE Band 25	24	251.189	188.16	1388.534	NO	less than 5	69.339	YES
WLAN Main 2.45GHz	16.5	44.668	151.46	1016.002	NO	less than 5	14.018	YES
WLAN Main 5GHz	12.5	17.783	151.46	1015.458	NO	less than 5	8.584	YES
WLAN Aux 2.45GHz	16.5	44.668	less than 5	14.018	YES	less than 5	14.018	YES
WLAN Aux 5GHz	12.5	17.783	less than 5	8.584	YES	less than 5	8.584	YES

Mode	Maximum power (dBm)	Maximum power (mW)	Top side			Right side			Left side		
			Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?
BT	4.41	2.761	25.47	0.171	NO	124.32	743.287	NO	less than 5	0.869	NO

Mode	Maximum power (dBm)	Maximum power (mW)	Bottom side			Back side		
			Ant. to surface(mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface(mm)	Exclusion threshold (mW)	Require SAR testing?
BT	4.41	2.761	151.46	1014.687	NO	less than 5	0.869	NO

14. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.

15. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.6 W/kg, when the transmission band is between 100 MHz and 200MHz.

16. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.4 W/kg, when the transmission band is ≥ 200MHz.

17. According to KDB865664 D01, 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 (~ 10% from the 1-g SAR limit)

18. There is an 2nd battery, so we do the worst case check in each band to make sure the device installed the 2nd battery can comply with the SAR limit.

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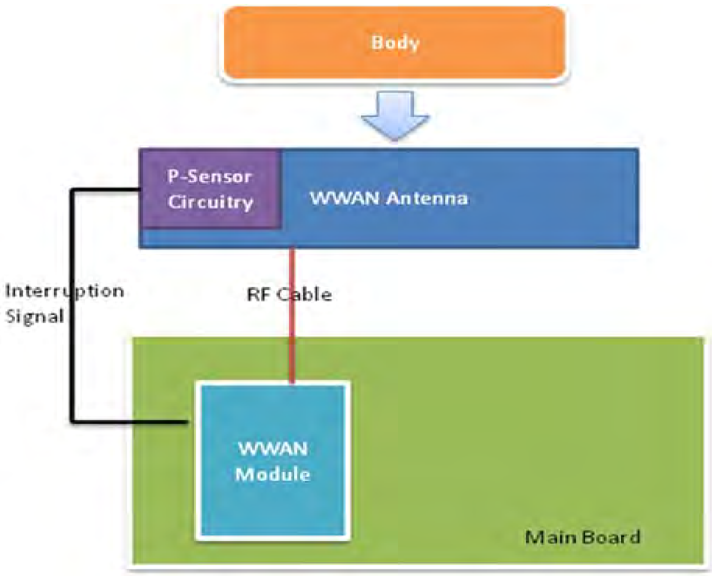
1.6 Proximity sensor operation description

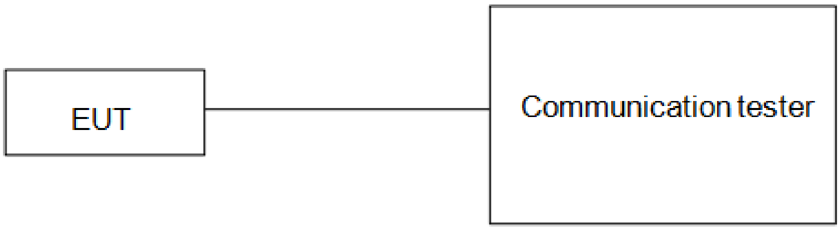
The P-sensor being used to reduce output power is capacitive in which when the object such as human body, metal or plastic is being approached, the sensing capacitance would be increased with the antenna pad. Once the capacitance is accumulated, and reached over the threshold as set in MCU of the microchip,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



1.6.1 Proximity sensor measurement procedure

(1) The proximity sensor is collocated with WWAN antenna.

(2) Output power is measured, and monitored by using the communication tester. A RF cables with sufficient length was being attached from the antenna port of the module, and used for the measurement. The appropriate loss attenuated from cable is compensated in the communication tester.



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1.6.2 Trigger distances for back/top/right sides

Test procedure:

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

2) The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.

3) The back surface or edge is then moved back (further away) from the phantom until maximum output power is returned to the normal maximum level.

4) The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom

5) If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.

6) The process is then reversed by moving the tablet away from the phantom to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.

7) The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.

8) To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

9) For back side, the trigger distance of proximity sensor is 26mm.

10) For top side, the trigger distance of proximity sensor is 7mm, and we perform the 1.6.3 tilt angle testing in next step.

10) For right side, the trigger distance of proximity sensor is 6mm, and we perform the 1.6.3 tilt angle testing in next step.

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1.6.3 Tilt angle testing

Test procedure:

1) The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.6.2 by rotating the tablet around the edge next to the phantom in ≤ 10 deg increments until the tablet is +/- 45deg or more from the vertical position at 0 deg.

2) If sensor triggering is released and normal maximum output power is restored within the +/- 45deg range, the procedures in step 1) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.

3) The smallest separation distance determined in steps 1) and 2), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in sections 1.6.2, 1.6.3 minus 1 mm should be used in the SAR measurements.

4) The influence of tablet tilt angles to proximity sensor triggering is determined by positioning top and right sides, please refer to table 1.6.5 and 1.6.6.

5) After the tilt angle testing for top side, the sensor is not released during +/- 45deg, so 7-1=6mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(6-1=5mm) should be used in the SAR measurements.

6) After the tilt angle testing for right side, the sensor is not released during +/- 45deg, so 6-1=5mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(5-1=4mm) should be used in the SAR measurements.

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1.6.4 Proximity sensor coverage

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

Test procedure:

1) The back surface or edges of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset.

2) The similar sequence of steps applied to determine sensor triggering distance in section 1.6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.

3) After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.

4) The process is then repeated from the other direction, at the opposite end of maximum antenna and sensor offset, by rotating the tablet 180 degrees.

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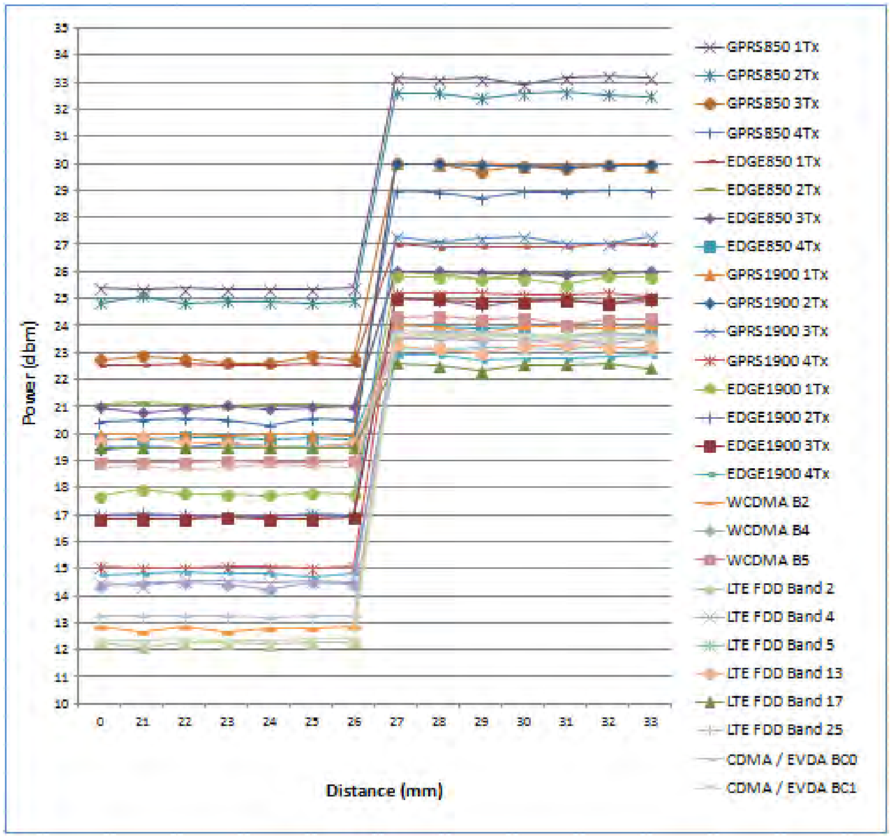
1.6.5 Results

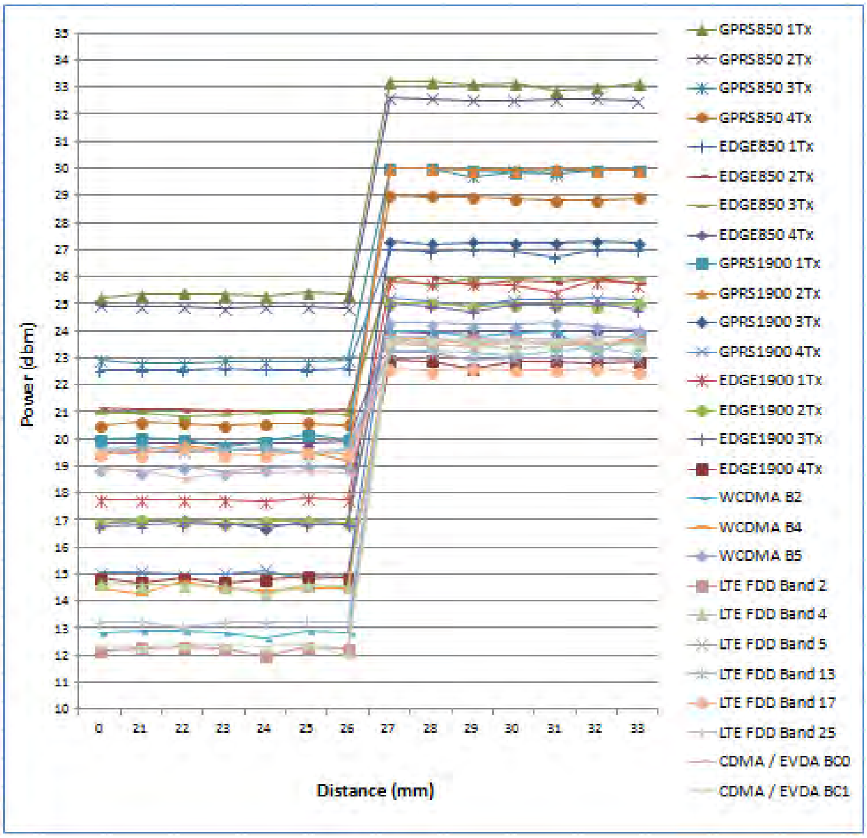
The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom is tabulated in the following.

Back side

Moving device toward the phantom



Moving device away from the phantom



For back side, the worst trigger distance of proximity sensor is 26mm, thus we test back side SAR in 25mm without power reduction and 0mm with power reduction.

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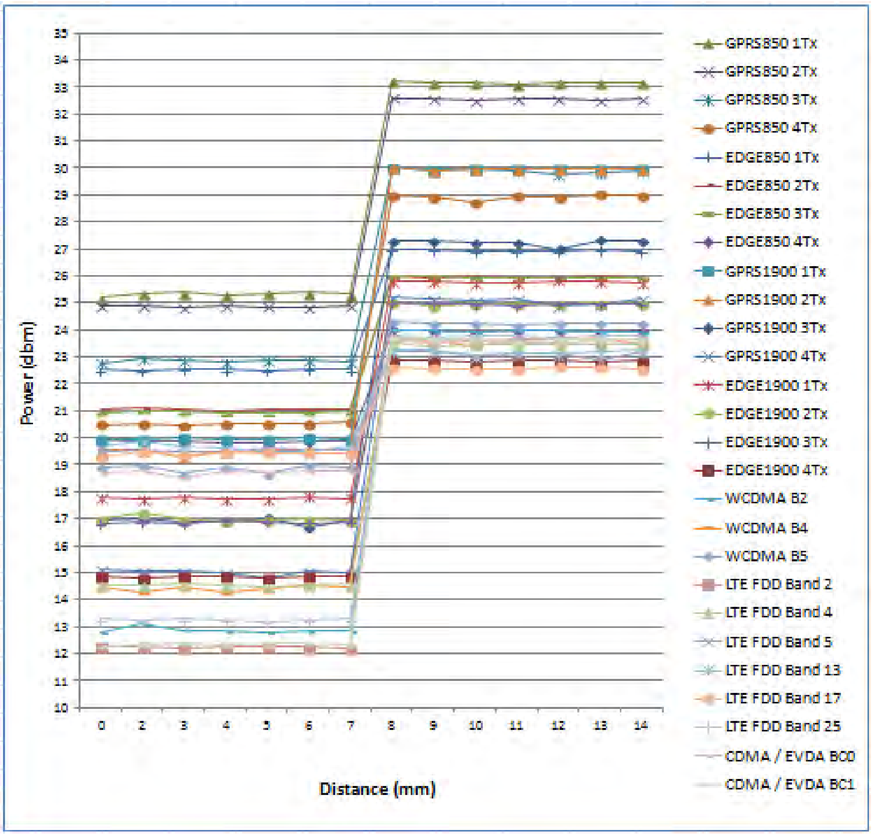
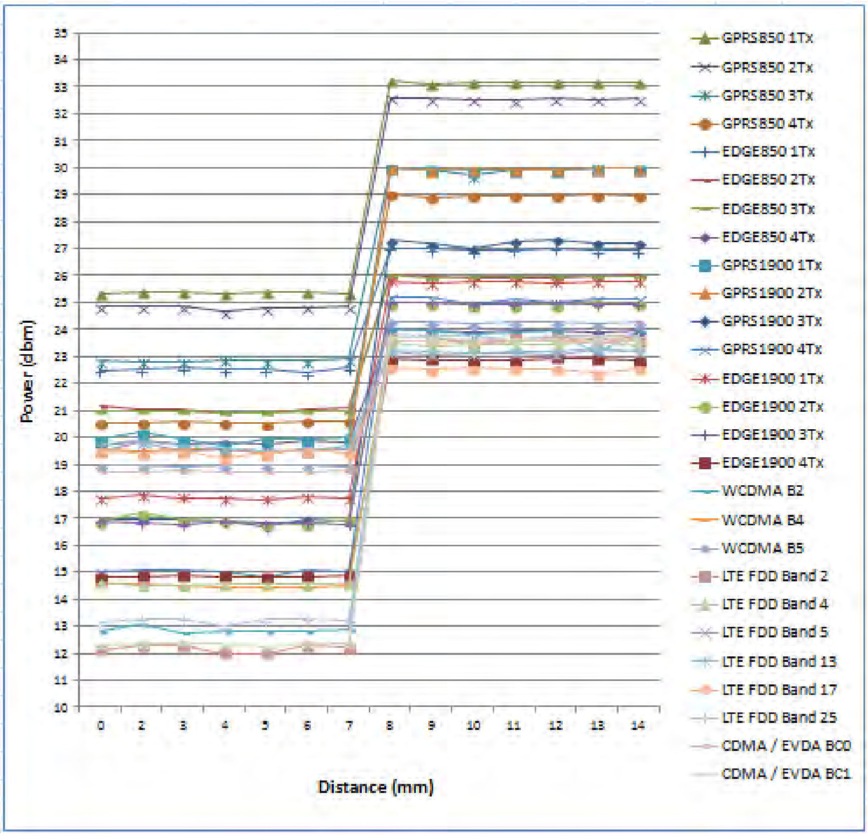
Top side

Moving device toward the phantom



Moving device away from the phantom



For top side, the worst trigger distance of proximity sensor is 7mm, so we perform the tilt angle testing.

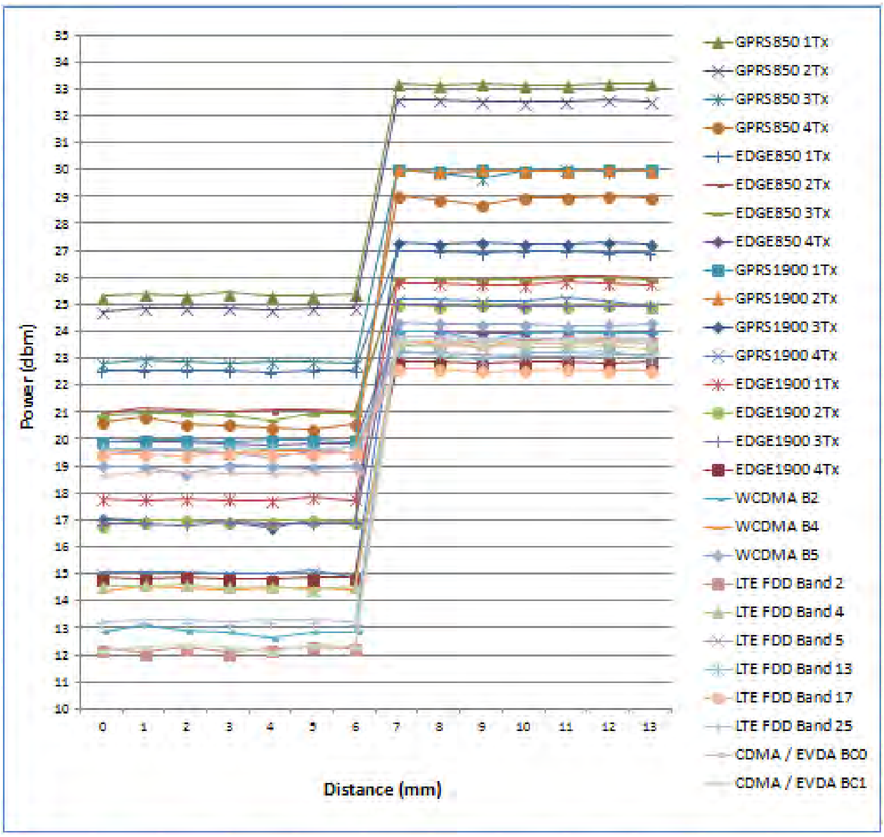
Table 1.6.5 Tilt angle test results for top side

P-sensor ON/OFF	-50 deg	-45 deg	-40 deg	-30 deg	-20 deg	-10 deg	0 deg	10 deg	20 deg	30 deg	40 deg	45 deg	50 deg
7mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

During the tilt angle testing for top side, the sensor is not released in 7mm, so 7-1=6mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(6-1=5mm) should be used in the SAR measurements for top side.

Right side

Moving device toward the phantom



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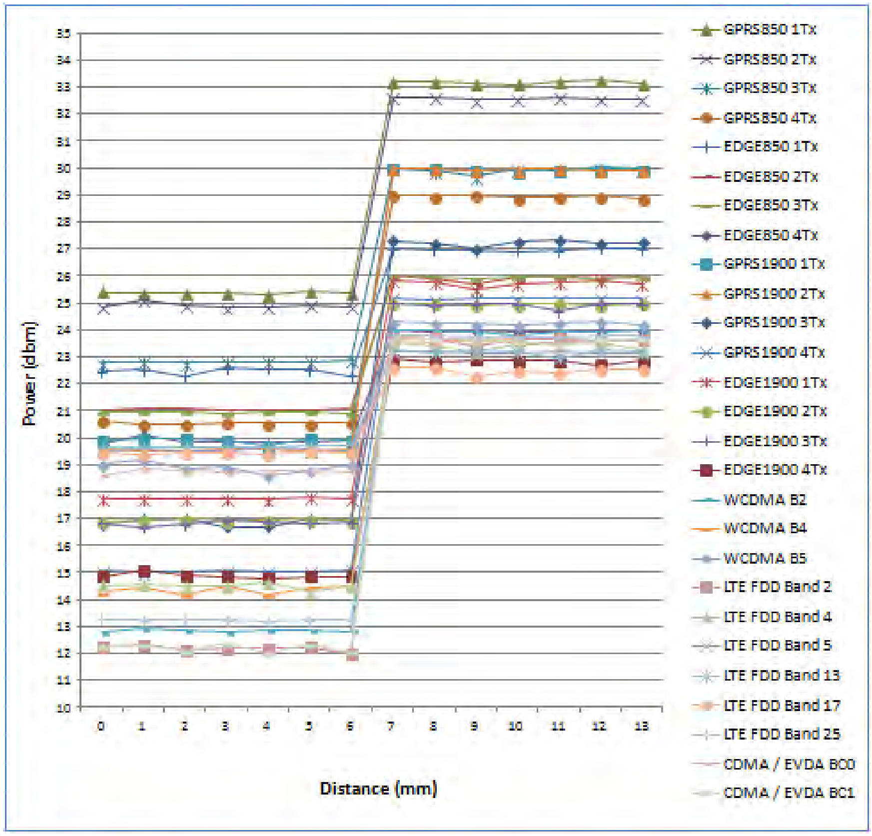
Moving device away from the phantom



For right side, the worst trigger distance of proximity sensor is 6mm, so we perform the tilt angle testing.

Table 1.6.5 Tilt angle test results for right side

P-sensor ON/OFF	-50 deg	-45 deg	-40 deg	-30 deg	-20 deg	-10 deg	0 deg	10 deg	20 deg	30 deg	40 deg	45 deg	50 deg
6mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

During the tilt angle testing for top side, the sensor is not released in 6mm, so 6-1=5mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(5-1=4mm) should be used in the SAR measurements for right side.

Note:

1. The triggering variations and hysteresis effect has been evaluated separately according to the tissue-equivalent medium required for each frequency band, and sensor triggering does not change with different tissue-equivalent media.
2. The default power level for sensor failure and malfunctioning, including all compliance concerns, has been addressed in the client's operation description (1.6.6) for the proximity sensor implementation to be acceptable.
3. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

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1.6.6 Operation description for P-sensor

Power Reduction Design Specification (for P-sensor)
The mechanism of power reduction is used only for WWAN, not for Wi-Fi and Bluetooth. The reduced power for each technology/band is defined in Table1-1. With P-sensor mechanism, the GPRS/WCDMA default power when P-sensor failure or malfunction are show in Table1-2 as below.

Table1-1：The power reduction scenario table

Band	Power Reduction
GPRS850	YES
EDGE850	YES
GPRS1900	YES
EDGE1900	YES
WCDMA B2	YES
WCDMA B4	YES
WCDMA B5	YES
CDMA BC0	YES
CDMA BC1	YES
LTE B2/4/5/13/17/25	YES
WLAN	NO
BT	NO

Table1-2：The default maximum power when p-sensor failure or malfunction

Technology / Band	Mode	Default Maximum Power (dBm)
GPRS 850	Class 8	25.5
	Class 10	25
	Class 11	23
	Class 12	21
EDGE 850	Class 8	23
	Class 10	22
	Class 11	22
	Class 12	20
GPRS 1900	Class 8	20.5
	Class 10	20
	Class 11	17.5
	Class 12	15.5
EDGE 1900	Class 8	18
	Class 10	17
	Class 11	17
	Class 12	15

Technology / Band	Mode	Default Maximum Power (dBm)
UMTS B2	RMC 12.2K data	13
	HSDPA case 1	12
	HSDPA case 2	12
	HSDPA case 3	12
	HSDPA case 4	12
	HSUPA case 1	11.5
	HSUPA case 2	11.5
	HSUPA case 3	11.5
	HSUPA case 4	11.5
	HSUPA case 5	11.5
UMTS B4	RMC 12.2K data	14.5
	HSDPA case 1	13.5
	HSDPA case 2	13.5
	HSDPA case 3	13.5
	HSDPA case 4	13.5
	HSUPA case 1	13
	HSUPA case 2	13
	HSUPA case 3	13
	HSUPA case 4	13
	HSUPA case 5	13
UMTS B5	RMC 12.2K data	19.5
	HSDPA case 1	18.5
	HSDPA case 2	18.5
	HSDPA case 3	18.5
	HSDPA case 4	18.5
	HSUPA case 1	18
	HSUPA case 2	18
	HSUPA case 3	18
	HSUPA case 4	18
	HSUPA case 5	18

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Technology / Band	Mode	Default Maximum Power (dBm)
CDMA BC0	All	19
CDMA BC1	All	12.5
LTE B2	All	12.5
LTE B4	All	15
LTE B5	All	20
LTE B13	All	20
LTE B17	All	19.5
LTE B25	All	13.5

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1.7 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|^2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-simulant.

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

- 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).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

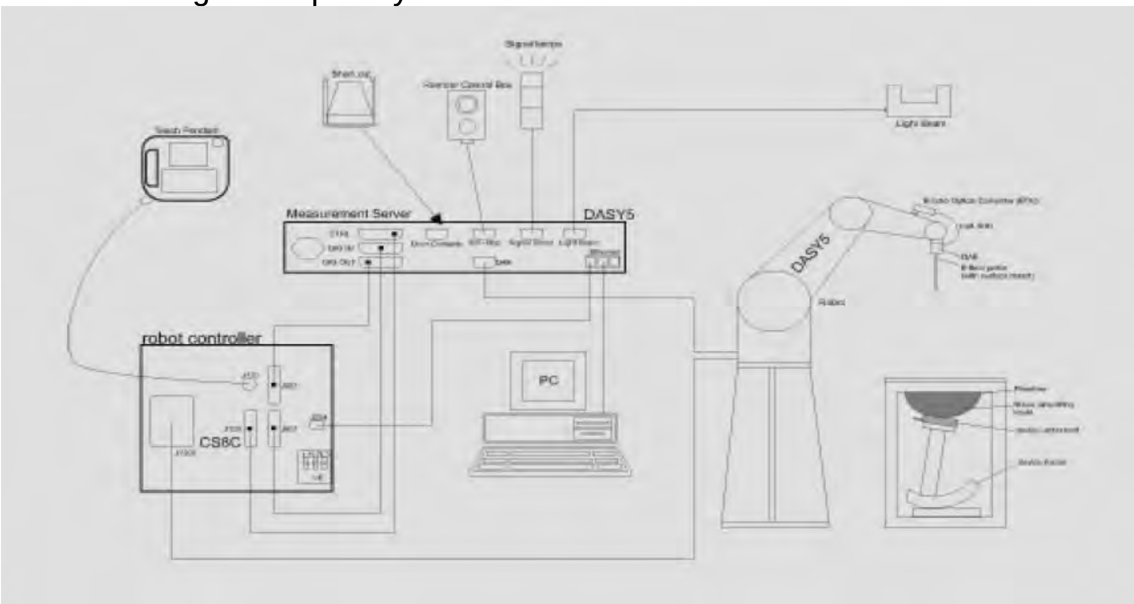

Fig. a The block diagram of SAR system

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- 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.
- 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY 5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validate the proper functioning of the system.

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1.8 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/ 1750/1900/2450/5200/5300/5600/5800 MHz Additional CF for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

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SAM PHANTOM V4.0C

Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X 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	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	 Device Holder

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1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 750/835/1750/1900/2450/5200/5300/5600/5800 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 (SAR values are normalized to 1W forward power delivered to the dipole). 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 ≥ 15 cm ± 5 mm (frequency ≤ 3 GHz) or ≥ 10 cm ± 5 mm (frequency > 3 G Hz) 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.

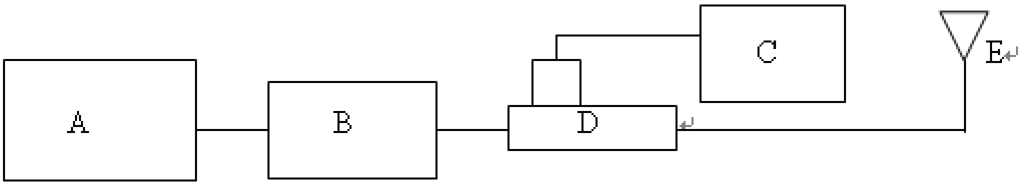


Fig. b The block diagram of system verification

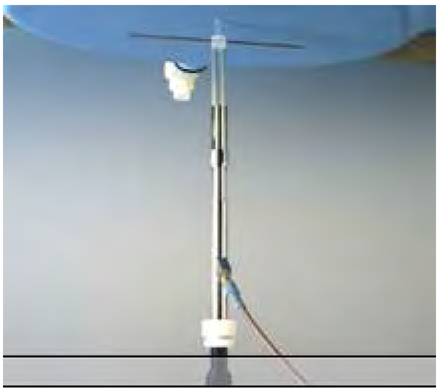
A. Signal generator

B. Amplifier

C. Power meter

D. Dual directional coupling

E. Reference dipole antenna



Photograph of the dipole Antenna

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
D750V2	1015	750	Body	8.75	2.29	9.16	4.69%	Apr. 14, 2015
D835V2	4d063	835	Body	9.35	2.36	9.44	0.96%	Apr. 12, 2015
			Body	9.35	2.36	9.44	0.96%	Apr. 13, 2015
D1750V2	1008	1750	Body	37.5	9.37	37.48	-0.05%	Apr. 15, 2015
D1900V2	5d018	1900	Body	39.8	10	40	0.50%	Apr. 16, 2015
			Body	39.8	10.1	40.4	1.51%	Apr. 17, 2015
D2450V2	727	2450	Body	50	12.6	50.4	0.80%	Apr. 03, 2015
D5GHzV2	1023	5200	Body	73.5	7.48	74.8	1.77%	Apr. 04, 2015
		5300	Body	74.6	7.49	74.9	0.40%	Apr. 05, 2015
		5600	Body	77.9	7.81	78.1	0.26%	Apr. 06, 2015
		5800	Body	75.6	7.64	76.4	1.06%	Apr. 07, 2015

Table 1. Results of system validation

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1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this body-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 (30 KHz-6000 MHz).

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 ≥ 15 cm ± 5 mm (Frequency ≤3G) or ≥ 10 cm ± 5 mm (Frequency >3G) during all tests. (Fig. 2)

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
Body	Apr. 14, 2015	709	55.691	0.960	54.922	0.931	1.38%	3.04%
		710	55.687	0.960	54.911	0.932	1.39%	2.94%
		711	55.683	0.960	54.904	0.933	1.40%	2.85%
		750	55.531	0.963	54.798	0.973	1.32%	-1.00%
		782	55.406	0.966	54.583	1.002	1.49%	-3.74%
	Apr. 12, 2015	824.2	55.242	0.969	54.389	0.956	1.54%	1.34%
		824.7	55.240	0.969	54.385	0.956	1.55%	1.36%
		826.4	55.234	0.969	54.372	0.958	1.56%	1.14%
		835	55.200	0.970	54.344	0.967	1.55%	0.31%
		836.52	55.195	0.972	54.333	0.968	1.56%	0.40%
		836.6	55.195	0.972	54.333	0.968	1.56%	0.41%
		846.6	55.164	0.984	54.315	0.978	1.54%	0.61%
		848.31	55.159	0.986	54.265	0.981	1.62%	0.55%
		848.8	55.158	0.987	54.261	0.982	1.63%	0.51%
	Apr. 13, 2015	829	55.223	0.970	54.152	0.965	1.94%	0.47%
		835	55.200	0.970	54.123	0.971	1.95%	-0.10%
		836.5	55.194	0.970	54.105	0.973	1.97%	-0.30%
		844	55.172	0.981	54.084	0.981	1.97%	0.01%
	Apr. 15, 2015	1712.4	53.531	1.465	51.997	1.442	2.87%	1.57%
		1720	53.511	1.469	51.981	1.451	2.86%	1.26%
		1732.4	53.478	1.477	51.892	1.463	2.97%	0.95%
		1732.5	53.478	1.477	51.891	1.463	2.97%	0.95%
		1745	53.445	1.485	51.844	1.475	3.00%	0.69%
		1750	53.432	1.488	51.812	1.481	3.03%	0.47%
		1752.6	53.425	1.490	51.802	1.484	3.04%	0.40%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
Body	Apr. 16, 2015	1850.2	53.300	1.520	52.334	1.483	1.81%	2.43%
		1851.25	53.300	1.520	52.329	1.484	1.82%	2.37%
		1852.4	53.300	1.520	52.321	1.485	1.84%	2.30%
		1880	53.300	1.520	52.131	1.514	2.19%	0.39%
		1900	53.300	1.520	52.001	1.535	2.44%	-0.99%
		1907.6	53.300	1.520	51.963	1.543	2.51%	-1.51%
		1908.75	53.300	1.520	51.951	1.545	2.53%	-1.64%
		1909.8	53.300	1.520	51.942	1.546	2.55%	-1.71%
	Apr. 17, 2015	1860	53.300	1.520	52.229	1.499	2.01%	1.38%
		1880	53.300	1.520	52.084	1.52	2.28%	0.00%
		1882.5	53.300	1.520	52.044	1.523	2.36%	-0.20%
		1900	53.300	1.520	51.901	1.542	2.62%	-1.45%
		1905	53.300	1.520	51.855	1.547	2.71%	-1.78%
	Apr. 3, 2015	2412	52.751	1.914	53.638	1.847	-1.68%	3.50%
		2417	52.744	1.918	53.621	1.852	-1.66%	3.44%
		2427	52.731	1.928	53.603	1.863	-1.65%	3.37%
		2437	52.717	1.938	53.592	1.872	-1.66%	3.38%
		2447	52.704	1.946	53.579	1.884	-1.66%	3.19%
		2450	52.700	1.950	53.568	1.888	-1.65%	3.18%
		2457	52.691	1.960	53.563	1.895	-1.65%	3.32%
		2462	52.685	1.967	53.551	1.901	-1.64%	3.36%
	Apr. 4, 2015	5190	49.028	5.288	48.191	5.222	1.71%	1.25%
		5200	49.014	5.299	48.181	5.231	1.70%	1.28%
		5210	49.001	5.311	48.168	5.243	1.70%	1.28%
		5220	48.987	5.323	48.161	5.254	1.69%	1.30%
		5230	48.974	5.334	48.143	5.266	1.70%	1.27%
	Apr. 5, 2015	5260	48.933	5.369	48.111	5.297	1.68%	1.34%
		5270	48.919	5.381	47.992	5.309	1.89%	1.34%
		5290	48.892	5.404	47.971	5.327	1.88%	1.42%
		5300	48.879	5.416	47.965	5.339	1.87%	1.42%
		5310	48.865	5.428	47.944	5.347	1.88%	1.49%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
Body	Apr. 6, 2015	5510	48.594	5.661	47.759	5.613	1.72%	0.85%
		5520	48.580	5.673	47.741	5.624	1.73%	0.86%
		5530	48.566	5.685	47.719	5.637	1.74%	0.84%
		5540	48.553	5.696	47.705	5.649	1.75%	0.83%
		5550	48.540	5.708	47.674	5.661	1.78%	0.82%
		5560	48.526	5.720	47.644	5.669	1.82%	0.89%
		5600	48.471	5.766	47.589	5.712	1.82%	0.94%
		5670	48.376	5.848	47.537	5.785	1.74%	1.08%
		5690	48.349	5.872	47.505	5.809	1.75%	1.07%
		5700	48.336	5.883	47.481	5.818	1.77%	1.10%
		5710	48.322	5.895	47.463	5.832	1.78%	1.07%
		5720	48.309	5.907	47.434	5.844	1.81%	1.07%
	Apr. 7, 2015	5755	48.261	5.947	47.352	5.892	1.88%	0.93%
		5765	48.248	5.959	47.331	5.904	1.90%	0.92%
		5775	48.234	5.971	47.314	5.917	1.91%	0.90%
		5785	48.220	5.982	47.302	5.931	1.90%	0.85%
		5795	48.207	5.994	47.272	5.942	1.94%	0.87%
		5800	48.200	6.000	47.261	5.949	1.95%	0.85%
		5825	48.166	6.029	47.204	5.979	2.00%	0.83%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

The composition of the body tissue simulating liquid:

Frequency (MHz)	Mode	Ingredient						Total amount
		DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	
750	Body	—	631.68 g	11.72 g	1.2 g	—	600 g	1.0L(Kg)
850	Body	—	631.68 g	11.72 g	1.2 g	—	600 g	1.0L(Kg)
1750	Body	300.67 g	716.56 g	4.0 g	—	—	—	1.0L(Kg)
1900	Body	300.67 g	716.56 g	4.0 g	—	—	—	1.0L(Kg)
2450	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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1.11 Evaluation Procedures

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

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

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

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

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

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

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

1.12 Probe Calibration Procedures

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

1.12.1 Transfer Calibration with Temperature Probes

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

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

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

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

- The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.

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

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about ±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 ±5% (RSS) when the same liquid is used for the calibration and for actual measurements and ±7-9% (RSS) when not, which is in good agreement with the estimates given in [2].

1.12.2 Calibration with Analytical Fields

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

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

- The setup must enable accurate determination of the incident power.
- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small 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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1.13 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 C95.1–1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in ‘‘Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields,’’ NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).

(2) Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

(3) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of 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)

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of this section. (Table 4.)

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

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.

2. Summary of Results

GPRS 850 MHz (without power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
GPRS (1D2UP)	Back side	25mm	251	848.8	33	32.8	4.71%	0.198	0.207	-
	Top side	5mm	128	824.2	33	32.6	9.65%	1.24	1.360	-
	Top side	5mm	190	836.6	33	32.6	9.65%	1.11	1.217	-
	Top side	5mm	251	848.8	33	32.8	4.71%	1.35	1.414	261
	Top side*	5mm	251	848.8	33	32.8	4.71%	1.34	1.403	-
	Right side	4mm	251	848.8	33	32.8	4.71%	0.545	0.571	-

GPRS 850 MHz (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
GPRS (1D2UP)	Back side	0mm	128	824.2	25	24.6	9.65%	1.07	1.173	-
	Back side	0mm	190	836.6	25	24.5	12.20%	1.07	1.201	-
	Back side	0mm	251	848.8	25	24.9	2.33%	1.14	1.167	-
	Back side*	0mm	251	848.8	25	24.9	2.33%	1.12	1.146	-
	Top side	0mm	251	848.8	25	24.9	2.33%	0.222	0.227	-
	Right side	0mm	251	848.8	25	24.9	2.33%	0.24	0.246	-

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

GPRS 850 MHz - 2nd battery spot check (without power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
GPRS (1D2UP)	Top side	5mm	251	848.8	33	32.8	4.71%	1.3	1.361	262

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GPRS 1900 MHz (without power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GPRS (1Dn2UP)	Back side	25mm	512	1850.2	30.5	30.1	9.65%	0.207	0.227	-
	Top side	5mm	512	1850.2	30.5	30.1	9.65%	0.34	0.373	-
	Right side	4mm	512	1850.2	30.5	30.1	9.65%	0.289	0.317	-

GPRS 1900 MHz (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GPRS (1Dn2UP)	Back side	0mm	512	1850.2	20	19.4	14.82%	0.776	0.891	-
	Back side	0mm	661	1880	20	19.4	14.82%	0.794	0.912	-
	Back side	0mm	810	1909.8	20	19.6	9.65%	0.824	0.903	-
	Back side*	0mm	810	1909.8	20	19.6	9.65%	0.831	0.911	263
	Top side	0mm	810	1909.8	20	19.6	9.65%	0.085	0.093	-
	Right side	0mm	810	1909.8	20	19.6	9.65%	0.079	0.087	-

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

GPRS 1900 MHz - 2nd battery spot check (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GPRS (1Dn2UP)	Back side	0mm	661	1880	20	19.4	14.82%	0.763	0.876	264

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WCDMA Band II (without power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back side	25mm	9538	1907.6	24.5	23.98	12.72%	0.318	0.358	-
	Top side	5mm	9538	1907.6	24.5	23.98	12.72%	0.459	0.517	-
	Right side	4mm	9538	1907.6	24.5	23.98	12.72%	0.341	0.384	-

WCDMA Band II (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back side	0mm	9262	1852.4	13	12.96	0.93%	0.998	1.007	265
	Back side	0mm	9400	1880	13	11.48	41.91%	0.638	0.905	-
	Back side	0mm	9538	1907.6	13	12.09	23.31%	0.72	0.888	-
	Back side*	0mm	9262	1852.4	13	12.96	0.93%	0.905	0.913	-
	Top side	0mm	9262	1852.4	13	12.96	0.93%	0.064	0.065	-
	Right side	0mm	9262	1852.4	13	12.96	0.93%	0.067	0.068	-

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

WCDMA Band II - 2nd battery spot check (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back side	0mm	9262	1852.4	13	12.96	0.93%	0.877	0.885	266

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WCDMA Band IV (without power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band IV	Back side	25mm	1513	1752.6	24.5	23.65	21.62%	0.177	0.215	-
	Top side	5mm	1513	1752.6	24.5	23.65	21.62%	0.393	0.478	-
	Right side	4mm	1513	1752.6	24.5	23.65	21.62%	0.379	0.461	-

WCDMA Band IV (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band IV	Back side	0mm	1312	1712.4	14.5	13.49	26.18%	0.758	0.956	-
	Back side	0mm	1412	1732.4	14.5	13.8	17.49%	0.911	1.070	-
	Back side	0mm	1513	1752.6	14.5	14.46	0.93%	1.07	1.080	267
	Back side*	0mm	1513	1752.6	14.5	14.46	0.93%	1.01	1.019	-
	Top side	0mm	1513	1752.6	14.5	14.46	0.93%	0.115	0.116	-
	Right side	0mm	1513	1752.6	14.5	14.46	0.93%	0.134	0.135	-

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

WCDMA Band IV - 2nd battery spot check (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band IV	Back side	0mm	1513	1752.6	14.5	14.46	0.93%	0.969	0.978	268

WCDMA Band V (without power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band V	Back side	25mm	4183	836.6	24.5	24.39	2.57%	0.178	0.183	-
	Top side	5mm	4132	826.4	24.5	23.96	13.24%	0.905	1.025	-
	Top side	5mm	4183	836.6	24.5	24.39	2.57%	1.13	1.159	269
	Top side	5mm	4233	846.6	24.5	23.9	14.82%	0.882	1.013	-
	Top side*	5mm	4183	836.6	24.5	24.39	2.57%	1.07	1.097	-
	Right side	4mm	4183	836.6	24.5	24.39	2.57%	0.753	0.772	-

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

WCDMA Band V (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band V	Back side	0mm	4132	826.4	19.5	18.7	20.23%	0.882	1.060	-
	Back side	0mm	4183	836.6	19.5	19.17	7.89%	0.891	0.961	-
	Back side	0mm	4233	846.6	19.5	18.68	20.78%	0.991	1.197	-
	Back side*	0mm	4233	846.6	19.5	18.68	20.78%	0.952	1.150	-
	Top side	0mm	4183	836.6	19.5	19.17	7.89%	0.225	0.243	-
	Right side	0mm	4183	836.6	19.5	19.17	7.89%	0.246	0.265	-

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

WCDMA Band V - 2nd battery spot check (with power reduction)

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band V	Back side	0mm	4233	846.6	19.5	18.68	20.78%	0.901	1.088	270

LTE FDD Band II (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 2	20MHz	QPSK	1 RB	99	Back side	25mm	19100	1900	24	23.73	6.41%	0.265	0.282	-
					Top side	5mm	19100	1900	24	23.73	6.41%	0.405	0.431	-
					Right side	4mm	19100	1900	24	23.73	6.41%	0.355	0.378	-
			50 RB	0	Back side	25mm	18700	1860	23	22.17	21.06%	0.115	0.139	-
					Top side	5mm	18700	1860	23	22.17	21.06%	0.215	0.260	-
					Right side	4mm	18700	1860	23	22.17	21.06%	0.192	0.232	-
			100 RB		Back side	25mm	18700	1860	23	22.13	22.18%	0.104	0.127	-
					Top side	5mm	18700	1860	23	22.13	22.18%	0.201	0.246	-
					Right side	4mm	18700	1860	23	22.13	22.18%	0.172	0.210	-

LTE FDD Band II (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 2	20MHz	QPSK	1 RB	0	Back side	0mm	18700	1860	12.5	12.39	2.57%	0.79	0.810	271
				50	Back side	0mm	18900	1880	12.5	12.09	9.90%	0.623	0.685	-
					Back side	0mm	19100	1900	12.5	11.9	14.82%	0.531	0.610	-
				0	Top side	0mm	18700	1860	12.5	12.39	2.57%	0.042	0.043	-
					Right side	0mm	18700	1860	12.5	12.39	2.57%	0.041	0.042	-
			50 RB	0	Back side	0mm	18700	1860	12.5	12.16	8.14%	0.742	0.802	-
				25	Back side	0mm	18900	1880	12.5	12.04	11.17%	0.619	0.688	-
				50	Back side	0mm	19100	1900	12.5	12.04	11.17%	0.543	0.604	-
				0	Top side	0mm	18700	1860	12.5	12.16	8.14%	0.041	0.044	-
					Right side	0mm	18700	1860	12.5	12.16	8.14%	0.043	0.047	-
			100 RB		Back side	0mm	18700	1860	12.5	12.07	10.41%	0.61	0.673	-
					Top side	0mm	18700	1860	12.5	12.07	10.41%	0.05	0.055	-
					Right side	0mm	18700	1860	12.5	12.07	10.41%	0.054	0.060	-

LTE FDD Band II - 2nd battery spot check (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 2	20MHz	QPSK	1 RB	0	Back side	0mm	18700	1860	12.5	12.39	2.57%	0.706	0.724	272

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LTE FDD Band IV (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
LTE Band 4	20MHz	QPSK	1 RB	50	Back side	25mm	20175	1732.5	24	22.97	26.77%	0.121	0.153	-
					Top side	5mm	20175	1732.5	24	22.97	26.77%	0.277	0.351	-
					Right side	4mm	20175	1732.5	24	22.97	26.77%	0.288	0.365	-
			50 RB	50	Back side	25mm	20300	1745	23	21.81	31.52%	0.104	0.137	-
					Top side	5mm	20300	1745	23	21.81	31.52%	0.23	0.303	-
					Right side	4mm	20300	1745	23	21.81	31.52%	0.249	0.327	-
			100 RB		Back side	25mm	20175	1732.5	23	21.75	33.35%	0.099	0.132	-
					Top side	5mm	20175	1732.5	23	21.75	33.35%	0.214	0.285	-
					Right side	4mm	20175	1732.5	23	21.75	33.35%	0.232	0.309	-

* - repeated at the highest SAR measurement according to the FCC KDB865664D01v01r03

LTE FDD Band IV (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
LTE Band 4	20MHz	QPSK	1 RB	0	Back side	0mm	20050	1720	15	14.8	4.71%	0.992	1.039	-
				99	Back side	0mm	20175	1732.5	15	14.47	12.98%	1.08	1.220	-
					Back side	0mm	20300	1745	15	14.68	7.65%	1.07	1.152	-
				0	Top side	0mm	20050	1720	15	14.8	4.71%	0.115	0.120	-
					Right side	0mm	20050	1720	15	14.8	4.71%	0.136	0.142	-
			50 RB	0	Back side	0mm	20050	1720	15	14.1	23.03%	0.966	1.188	-
				25	Back side	0mm	20300	1745	15	14.22	19.67%	1.12	1.340	273
				50	Back side	0mm	20175	1732.5	15	14	25.89%	1.06	1.334	-
				25	Back side*	0mm	20300	1745	15	14.22	19.67%	1.11	1.328	-
				25	Top side	0mm	20300	1745	15	14.22	19.67%	0.096	0.115	-
					Right side	0mm	20300	1745	15	14.22	19.67%	0.105	0.126	-
			100 RB		Back side	0mm	20050	1720	15	13.97	26.77%	0.969	1.228	-
					Back side	0mm	20175	1732.5	15	13.88	29.42%	1.02	1.320	-
					Back side	0mm	20300	1745	15	14.13	22.18%	1.08	1.320	-
					Top side	0mm	20300	1745	15	14.13	22.18%	0.097	0.119	-
					Right side	0mm	20300	1745	15	14.13	22.18%	0.11	0.134	-

LTE FDD Band IV - 2nd battery spot check (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 4	20MHz	QPSK	50 RB	25	Back side	0mm	20300	1745	15	14.22	19.67%	1.1	1.316	274

LTE FDD Band V (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 5	10MHz	QPSK	1 RB	49	Back side	25mm	20525	836.5	24	23.28	18.03%	0.137	0.162	-
				0	Top side	5mm	20600	844	24	23.06	24.17%	0.767	0.952	-
				49	Top side	5mm	20450	829	24	22.95	27.35%	0.633	0.806	-
				49	Top side	5mm	20525	836.5	24	23.28	18.03%	0.776	0.916	-
				49	Right side	4mm	20525	836.5	24	23.28	18.03%	0.453	0.535	-
			25 RB	25	Back side	25mm	20525	836.5	23	22.01	25.60%	0.105	0.132	-
					Top side	5mm	20525	836.5	23	22.01	25.60%	0.411	0.516	-
					Right side	4mm	20525	836.5	23	22.01	25.60%	0.36	0.452	-
			50 RB		Back side	25mm	20525	836.5	23	21.73	33.97%	0.09	0.121	-
					Top side	5mm	20525	836.5	23	21.73	33.97%	0.523	0.701	-
					Right side	4mm	20525	836.5	23	21.73	33.97%	0.369	0.494	-

LTE FDD Band V (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 5	10MHz	QPSK	1 RB	0	Back side	0mm	20600	844	20	19.72	6.66%	1.04	1.109	-
				49	Back side	0mm	20450	829	20	19.7	7.15%	1.19	1.275	275
				49	Back side	0mm	20525	836.5	20	19.59	9.90%	1.03	1.132	-
				49	Back side*	0mm	20450	829	20	19.7	7.15%	1.15	1.232	-
				0	Top side	0mm	20600	844	20	19.72	6.66%	0.173	0.185	-
				0	Right side	0mm	20600	844	20	19.72	6.66%	0.273	0.291	-
			25 RB	0	Back side	0mm	20600	844	20	19.49	12.46%	1.03	1.158	-
				25	Back side	0mm	20450	829	20	19.07	23.88%	1.1	1.363	-
				25	Back side	0mm	20525	836.5	20	19.46	13.24%	1.04	1.178	-
				0	Top side	0mm	20600	844	20	19.49	12.46%	0.167	0.188	-
				0	Right side	0mm	20600	844	20	19.49	12.46%	0.287	0.323	-
			50 RB		Back side	0mm	20450	829	20	18.81	31.52%	1.08	1.420	-
					Back side	0mm	20525	836.5	20	19.27	18.30%	1.04	1.230	-
					Back side	0mm	20600	844	20	19.03	25.03%	1.05	1.313	-
					Top side	0mm	20525	836.5	20	19.27	18.30%	0.169	0.200	-
					Right side	0mm	20525	836.5	20	19.27	18.30%	0.274	0.324	-

* - repeated at the highest SAR measurement according to the FCC KDB865664D01v01r03

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LTE FDD Band V - 2nd battery spot check (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 5	10MHz	QPSK	50 RB		Back side	0mm	20450	829	20	18.81	31.52%	1.07	1.407	276

LTE FDD Band XIII (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
LTE Band 13	10MHz	QPSK	1 RB	25	Back side	25mm	23230	782	24	23.3	17.49%	0.085	0.100	-
					Top side	5mm	23230	782	24	23.3	17.49%	0.619	0.727	-
					Right side	4mm	23230	782	24	23.3	17.49%	0.312	0.367	-
			25 RB	12	Back side	25mm	23230	782	23	22.01	25.60%	0.077	0.097	-
					Top side	5mm	23230	782	23	22.01	25.60%	0.45	0.565	-
					Right side	4mm	23230	782	23	22.01	25.60%	0.227	0.285	-
			50 RB		Back side	25mm	23230	782	23	21.76	33.05%	0.075	0.100	-
					Top side	5mm	23230	782	23	21.76	33.05%	0.447	0.595	-
					Right side	4mm	23230	782	23	21.76	33.05%	0.247	0.329	-

LTE FDD Band XIII (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
LTE Band 13	10MHz	QPSK	1 RB	0	Back side	0mm	23230	782	20	19.46	13.24%	1.24	1.404	277
				25	Back side	0mm	23230	782	20	19.82	4.23%	1.13	1.178	-
				49	Back side	0mm	23230	782	20	19.78	5.20%	1.11	1.168	-
				0	Back side*	0mm	23230	782	20	19.46	13.24%	1.19	1.348	-
				25	Top side	0mm	23230	782	20	19.82	4.23%	0.19	0.198	-
				25	Right side	0mm	23230	782	20	19.82	4.23%	0.267	0.278	-
			25 RB	0	Back side	0mm	23230	782	20	19.49	12.46%	1.16	1.305	-
				12	Back side	0mm	23230	782	20	19.61	9.40%	1.08	1.181	-
				25	Back side	0mm	23230	782	20	19.58	10.15%	1.04	1.146	-
				12	Top side	0mm	23230	782	20	19.61	9.40%	0.175	0.191	-
				12	Right side	0mm	23230	782	20	19.61	9.40%	0.249	0.272	-
			50 RB		Back side	0mm	23230	782	20	19.45	13.50%	1.07	1.214	-
					Top side	0mm	23230	782	20	19.45	13.50%	0.182	0.207	-
					Right side	0mm	23230	782	20	19.45	13.50%	0.245	0.278	-

* - repeated at the highest SAR measurement according to the FCC KDB865664D01v01r03

LTE FDD Band XIII - 2nd battery spot check (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 13	10MHz	QPSK	1 RB	0	Back side	0mm	23230	782	20	19.46	13.24%	1.19	1.348	278

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LTE FDD Band XVII (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 17	10MHz	QPSK	1 RB	49	Back side	25mm	23800	711	24	22.66	36.14%	0.031	0.042	-
					Top side	5mm	23800	711	24	22.66	36.14%	0.339	0.462	-
					Right side	4mm	23800	711	24	22.66	36.14%	0.099	0.135	-
			25 RB	0	Back side	25mm	23780	709	23	21.45	42.89%	0.027	0.039	-
					Top side	5mm	23780	709	23	21.45	42.89%	0.184	0.263	-
					Right side	4mm	23780	709	23	21.45	42.89%	0.076	0.109	-
			50 RB		Back side	25mm	23790	710	23	21.26	49.28%	0.024	0.036	-
					Top side	5mm	23790	710	23	21.26	49.28%	0.175	0.261	-
					Right side	4mm	23790	710	23	21.26	49.28%	0.059	0.088	-

LTE FDD Band XVII (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 17	10MHz	QPSK	1 RB	49	Back side	0mm	23780	709	19.5	19.45	1.16%	0.964	0.975	-
					Back side	0mm	23790	710	19.5	19.39	2.57%	0.999	1.025	-
					Back side	0mm	23800	711	19.5	19.48	0.46%	1.03	1.035	279
					Back side*	0mm	23800	711	19.5	19.48	0.46%	1.02	1.025	-
					Top side	0mm	23800	711	19.5	19.48	0.46%	0.152	0.153	-
					Right side	0mm	23800	711	19.5	19.48	0.46%	0.163	0.164	-
			25 RB	0	Back side	0mm	23780	709	19.5	19.19	7.40%	0.953	1.024	-
				0	Back side	0mm	23790	710	19.5	19.11	9.40%	0.912	0.998	-
				25	Back side	0mm	23800	711	19.5	19.15	8.39%	0.945	1.024	-
				0	Top side	0mm	23780	709	19.5	19.19	7.40%	0.147	0.158	-
				0	Right side	0mm	23780	709	19.5	19.19	7.40%	0.152	0.163	-
			50 RB		Back side	0mm	23780	709	19.5	19.06	10.66%	0.906	1.003	-
					Back side	0mm	23790	710	19.5	19.09	9.90%	0.914	1.004	-
					Back side	0mm	23800	711	19.5	19.13	8.89%	0.916	0.997	-
					Top side	0mm	23800	711	19.5	19.13	8.89%	0.173	0.188	-
					Right side	0mm	23800	711	19.5	19.13	8.89%	0.161	0.175	-

* - repeated at the highest SAR measurement according to the FCC KDB865664D01v01r03

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LTE FDD Band XVII - 2nd battery spot check (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 17	10MHz	QPSK	1 RB	49	Back side	0mm	23800	711	19.5	19.48	0.46%	1.03	1.035	280

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LTE FDD Band XXV (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
LTE Band 25	20MHz	QPSK	1 RB	0	Back side	25mm	26140	1860	24	24	0.00%	0.235	0.235	-
					Top side	5mm	26140	1860	24	24	0.00%	0.35	0.350	-
					Right side	4mm	26140	1860	24	24	0.00%	0.332	0.332	-
			50 RB	25	Back side	25mm	26590	1905	23	22.58	10.15%	0.204	0.225	-
					Top side	5mm	26590	1905	23	22.58	10.15%	0.311	0.343	-
					Right side	4mm	26590	1905	23	22.58	10.15%	0.319	0.351	-
			100 RB		Back side	25mm	26590	1905	23	22.43	14.02%	0.146	0.166	-
					Top side	5mm	26590	1905	23	22.43	14.02%	0.283	0.323	-
					Right side	4mm	26590	1905	23	22.43	14.02%	0.252	0.287	-

LTE FDD Band XXV (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg) Measured	Averaged SAR over 1g (W/kg) Reported	Plot page
LTE Band 25	20MHz	QPSK	1 RB	0	Back side	0mm	26140	1860	13.5	13.46	0.93%	0.898	0.906	-
				0	Back side	0mm	26365	1882.5	13.5	13.17	7.89%	0.732	0.790	-
				50	Back side	0mm	26590	1905	13.5	13.47	0.69%	0.825	0.831	-
				50	Top side	0mm	26590	1905	13.5	13.47	0.69%	0.086	0.087	-
				50	Right side	0mm	26590	1905	13.5	13.47	0.69%	0.106	0.107	-
			50 RB	0	Back side	0mm	26140	1860	13.5	13.33	3.99%	0.933	0.970	281
				25	Back side	0mm	26365	1882.5	13.5	13.2	7.15%	0.902	0.967	-
				25	Back side	0mm	26590	1905	13.5	13.29	4.95%	0.824	0.865	-
				0	Back side*	0mm	26140	1860	13.5	13.33	3.99%	0.857	0.891	-
				0	Top side	0mm	26140	1860	13.5	13.33	3.99%	0.063	0.066	-
				0	Right side	0mm	26140	1860	13.5	13.33	3.99%	0.061	0.063	-
			100 RB		Back side	0mm	26140	1860	13.5	13.17	7.89%	0.843	0.910	-
					Back side	0mm	26365	1882.5	13.5	13.1	9.65%	0.868	0.952	-
					Back side	0mm	26590	1905	13.5	13.05	10.92%	0.787	0.873	-
					Top side	0mm	26140	1860	13.5	13.17	7.89%	0.069	0.074	-
					Right side	0mm	26140	1860	13.5	13.17	7.89%	0.069	0.074	-

* - repeated at the highest SAR measurement according to the FCC KDB865664D01v01r03

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LTE FDD Band XXV - 2nd battery spot check (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 25	20MHz	QPSK	50 RB	0	Back side	0mm	26140	1860	13.5	13.33	3.99%	0.907	0.943	282

CDMA / EVDO (BC0) (without power reduction)

Mode		Service	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
CDMA BC 0	EVDO	Rev. 0 Subtype 0/1	Back side	25mm	777	848.31	24.5	23.71	19.95%	0.124	0.149	-
			Top side	5mm	1013	824.7	24.5	23.46	27.06%	0.826	1.049	-
			Top side	5mm	384	836.52	24.5	23.55	24.45%	0.972	1.210	-
			Top side	5mm	777	848.31	24.5	23.71	19.95%	0.848	1.017	-
			Right side	4mm	777	848.31	24.5	23.71	19.95%	0.527	0.632	-

CDMA / EVDO (BC0) (with power reduction)

Mode		Service	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
CDMA BC 0	EVDO	Rev. 0 Subtype 0/1	Back side	0mm	1013	824.7	19	18.82	4.23%	1	1.042	-
			Back side	0mm	384	836.52	19	18.86	3.28%	1.11	1.146	-
			Back side	0mm	777	848.31	19	18.94	1.39%	1.36	1.379	283
			Back side*	0mm	777	848.31	19	18.94	1.39%	1.36	1.379	-
			Top side	0mm	777	848.31	19	18.94	1.39%	0.285	0.289	-
			Right side	0mm	777	848.31	19	18.94	1.39%	0.305	0.309	-

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

CDMA / EVDO (BC0) - 2nd battery spot check (with power reduction)

Mode		Service	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
CDMA BC 0	EVDO	Rev. 0 Subtype 0/1	Back side	0mm	777	848.31	19	18.94	1.39%	1.33	1.349	284

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CDMA / EVDO (BC1) (without power reduction)

Mode		Service	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
CDMA BC1	EVDO	Rev. 0 Subtype 0/1	Back side	25mm	600	1880	24.5	24	12.20%	0.265	0.297	-
			Top side	5mm	600	1880	24.5	24	12.20%	0.499	0.560	-
			Right side	4mm	600	1880	24.5	24	12.20%	0.428	0.480	-

CDMA / EVDO (BC1) (with power reduction)

Mode		Service	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
CDMA BC1	EVDO	Rev. 0 Subtype 0/1	Back side	0mm	25	1851.25	12.5	12.41	2.09%	1	1.021	285
			Back side	0mm	600	1880	12.5	12.44	1.39%	0.826	0.837	-
			Back side	0mm	1175	1908.75	12.5	12.48	0.46%	0.876	0.880	-
			Back side*	0mm	25	1851.25	12.5	12.41	2.09%	0.994	1.015	-
			Top side	0mm	1175	1908.75	12.5	12.48	0.46%	0.082	0.082	-
			Right side	0mm	1175	1908.75	12.5	12.48	0.46%	0.083	0.083	-

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

CDMA / EVDO (BC1) - 2nd battery spot check (with power reduction)

Mode		Service	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
CDMA BC1	EVDO	Rev. 0 Subtype 0/1	Back side	0mm	25	1851.25	12.5	12.41	2.09%	0.984	1.005	286

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WLAN802.11 Main Antenna

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Main	WLAN802.11 b	Back side	-	1	2412	16.00	15.95	1.16%	0.52	0.526	-
		Back side	-	6	2437	16.00	15.67	7.89%	0.631	0.681	-
		Back side	-	11	2462	16.00	15.81	4.47%	0.705	0.737	287
		Left side	-	1	2412	16.00	15.95	1.16%	0.175	0.177	-
	WLAN802.11 g	Back side	-	2	2417	15.50	15.44	1.39%	0.412	0.418	-
		Back side	-	6	2437	16.50	16.32	4.23%	0.61	0.636	288
		Back side	-	10	2457	15.50	15.41	2.09%	0.549	0.560	-
		Left side	-	6	2437	16.50	16.32	4.23%	0.21	0.219	-
	WLAN802.11 n (20M)	Back side	-	2	2417	15.50	15.41	2.09%	0.519	0.530	-
		Back side	-	6	2437	16.50	16.22	6.66%	0.742	0.791	289
		Back side	-	10	2457	15.5	15.37	3.04%	0.527	0.543	-
		Left side	-	6	2437	16.50	16.22	6.66%	0.262	0.279	-
	WLAN802.11 n (40M)	Back side	-	4	2427	14.50	14.24	6.17%	0.38	0.403	-
		Back side	-	6	2437	16.50	16.27	5.44%	0.746	0.787	290
		Back side	-	8	2447	13.50	13.42	1.86%	0.35	0.357	-
		Left side	-	6	2437	16.50	16.27	5.44%	0.234	0.247	-
	WLAN802.11 a 5.2G	Back side	-	40	5200	12.50	12.28	5.20%	0.492	0.518	-
		Back side	-	44	5220	12.50	12.31	4.47%	0.532	0.556	291
		Left side	-	44	5220	12.50	12.31	4.47%	0.253	0.264	-
	WLAN802.11 n(40M) 5.2G	Back side	-	46	5230	12.50	12.25	5.93%	0.558	0.591	292
	WLAN802.11 ac(40M) 5.2G	Back side	-	46	5230	12.50	12.30	4.71%	0.52	0.545	293
	WLAN802.11 ac(80M) 5.2G	Back side	-	42	5210	12.50	12.15	8.39%	0.511	0.554	294
	WLAN802.11 a 5.3G	Back side	-	52	5260	12.50	12.26	5.68%	0.622	0.657	-
		Back side	-	60	5300	12.50	12.33	3.99%	0.64	0.666	295
		Left side	-	60	5300	12.50	12.33	3.99%	0.287	0.298	-
	WLAN802.11 n(40M) 5.3G	Back side	-	54	5270	12.50	12.24	6.17%	0.495	0.526	-
		Back side	-	62	5310	12.50	12.24	6.17%	0.572	0.607	296
	WLAN802.11 ac(40M) 5.3G	Back side	-	54	5270	12.50	12.32	4.23%	0.483	0.503	297
	WLAN802.11 ac(80M) 5.3G	Back side	-	58	5290	12.50	12.04	11.17%	0.593	0.659	298
	WLAN802.11 a 5.6G	Back side	-	108	5540	12.50	12.29	4.95%	0.571	0.599	-
		Back side	-	112	5560	12.50	12.26	5.68%	0.548	0.579	-
		Back side	-	140	5700	12.50	12.31	4.47%	0.738	0.771	299
		Left side	-	140	5700	12.50	12.31	4.47%	0.28	0.293	-

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

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Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Main	WLAN802.11 n(40M) 5.6G	Back side	-	102	5510	12.50	12.22	6.66%	0.614	0.655	-
		Back side	-	110	5550	12.50	12.33	3.99%	0.613	0.637	-
		Back side	-	134	5670	12.50	12.26	5.68%	0.692	0.731	300
	WLAN802.11 ac(20M) 5.6G	Back side	-	144	5720	12.50	12.15	8.39%	0.704	0.763	301
		Left side	-	144	5720	12.50	12.15	8.39%	0.269	0.292	-
	WLAN802.11 ac(40M) 5.6G	Back side	-	102	5510	12.50	12.22	6.66%	0.68	0.725	302
		Back side	-	110	5550	12.50	12.33	3.99%	0.652	0.678	-
		Back side	-	134	5670	12.50	12.26	5.68%	0.676	0.714	-
		Back side	-	142	5710	12.50	12.15	8.39%	0.593	0.643	-
		Left side	-	142	5710	12.50	12.15	8.39%	0.28	0.303	-
	WLAN802.11 ac(80M) 5.6G	Back side	-	106	5530	12.50	12.02	11.69%	0.476	0.532	-
		Back side	-	138	5690	12.50	12.04	11.17%	0.644	0.716	303
	WLAN802.11 a 5.8G	Back side	-	153	5765	12.50	12.38	2.80%	0.712	0.732	304
		Back side	-	157	5785	12.50	12.37	3.04%	0.646	0.666	-
		Back side	-	165	5825	12.50	12.34	3.75%	0.627	0.651	-
		Left side	-	153	5765	12.50	12.38	2.80%	0.262	0.269	-
	WLAN802.11 n(40M) 5.8G	Back side	-	151	5755	12.50	12.27	5.44%	0.669	0.705	305
	WLAN802.11 ac(40M) 5.8G	Back side	-	151	5755	12.50	12.39	2.57%	0.674	0.691	306
	WLAN802.11 ac(80M) 5.8G	Back side	-	155	5775	12.50	12.12	9.14%	0.661	0.721	307

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

WLAN802.11 Main Antenna_2nd battery spot check

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Main	WLAN802.11 n (20M)	Back side	-	6	2437	16.50	16.22	6.66%	0.763	0.814	308
	WLAN802.11 a 5.2G	Back side	-	44	5220	12.50	12.31	4.47%	0.536	0.560	309
	WLAN802.11 a 5.3G	Back side	-	60	5300	12.50	12.33	3.99%	0.644	0.670	310
	WLAN802.11 a 5.6G	Back side	-	140	5700	12.50	12.31	4.47%	0.693	0.724	311
	WLAN802.11 a 5.8G	Back side	-	153	5765	12.50	12.38	2.80%	0.702	0.722	312

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WLAN802.11 Aux Antenna

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Aux	WLAN802.11 b	Back side	-	1	2412	16.00	15.78	5.20%	0.765	0.805	-
		Back side	-	6	2437	16.00	15.61	9.40%	0.771	0.843	313
		Back side	-	11	2462	16.00	15.71	6.91%	0.707	0.756	-
		Bottom side	-	1	2412	16.00	15.78	5.20%	0.04	0.042	-
		Left side	-	1	2412	16.00	15.78	5.20%	0.00954	0.010	-
	WLAN802.11 g	Back side	-	2	2417	15.50	15.37	3.04%	0.811	0.836	-
		Back side	-	6	2437	16.50	16.18	7.65%	0.993	1.069	314
		Back side	-	10	2457	15.50	15.36	3.28%	0.691	0.714	-
		Back side*	-	6	2437	16.50	16.18	7.65%	0.878	0.945	-
		Bottom side	-	6	2437	16.50	16.18	7.65%	0.048	0.052	-
		Left side	-	6	2437	16.50	16.18	7.65%	0.013	0.014	-
	WLAN802.11 n (20M)	Back side	-	2	2417	15.50	15.21	6.91%	0.621	0.664	-
		Back side	-	6	2437	16.50	16.14	8.64%	0.923	1.003	315
		Back side	-	10	2457	15.5	15.34	3.75%	0.728	0.755	-
		Bottom side	-	6	2437	16.50	16.14	8.64%	0.233	0.253	-
		Left side	-	6	2437	16.50	16.14	8.64%	0.182	0.198	-
	WLAN802.11 n (40M)	Back side	-	4	2427	14.50	14.21	6.91%	0.642	0.686	-
		Back side	-	6	2437	16.50	16.15	8.39%	0.918	0.995	316
		Back side	-	8	2447	12.50	12.13	8.89%	0.396	0.431	-
		Bottom side	-	6	2437	16.50	16.15	8.39%	0.228	0.247	-
		Left side	-	6	2437	16.50	16.15	8.39%	0.192	0.208	-
	WLAN802.11 a 5.2G	Back side	-	40	5200	12.50	12.4	2.33%	0.72	0.737	-
		Back side	-	44	5220	12.50	12.41	2.09%	0.902	0.921	317
		Back side*	-	44	5220	12.50	12.41	2.09%	0.857	0.875	-
		Bottom side	-	44	5220	12.50	12.41	2.09%	0.24	0.245	-
		Left side	-	44	5220	12.50	12.41	2.09%	0.194	0.198	-
	WLAN802.11 n(40M) 5.2G	Back side	-	38	5190	12.50	12.32	4.23%	0.775	0.808	-
		Back side	-	46	5230	12.50	12.31	4.47%	0.822	0.859	318
	WLAN802.11 ac(40M) 5.2G	Back side	-	38	5190	12.50	12.37	3.04%	0.783	0.807	-
		Back side	-	46	5230	12.50	12.34	3.75%	0.805	0.835	319
	WLAN802.11 ac(80M) 5.2G	Back side	-	42	5210	12.50	12.22	6.66%	0.819	0.874	320
	WLAN802.11 a 5.3G	Back side	-	52	5260	12.50	12.36	3.28%	0.826	0.853	-
		Back side	-	60	5300	12.50	12.41	2.09%	1.01	1.031	321
		Back side*	-	60	5300	12.50	12.41	2.09%	0.884	0.903	-
		Bottom side	-	60	5300	12.50	12.41	2.09%	0.267	0.273	-
		Left side	-	60	5300	12.50	12.41	2.09%	0.264	0.270	-
	WLAN802.11 n(40M) 5.3G	Back side	-	54	5270	12.50	12.31	4.47%	0.8	0.836	-
		Back side	-	62	5310	12.50	12.25	5.93%	0.937	0.993	322

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

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Aux	WLAN802.11 ac(40M) 5.3G	Back side	-	54	5270	12.50	12.36	3.28%	0.7	0.723	323
	WLAN802.11 ac(80M) 5.3G	Back side	-	58	5290	12.50	12.23	6.41%	0.768	0.817	324
	WLAN802.11 a 5.6G	Back side	-	104	5520	12.50	12.40	2.33%	1.3	1.330	-
		Back side	-	116	5580	12.50	12.35	3.51%	1.24	1.284	-
		Back side	-	140	5700	12.50	12.39	2.57%	1.32	1.354	325
		Back side*	-	140	5700	12.50	12.39	2.57%	1.3	1.333	-
		Bottom side	-	104	5520	12.50	12.40	2.33%	0.28	0.287	-
		Left side	-	104	5520	12.50	12.40	2.33%	0.264	0.270	-
	WLAN802.11 n(40M) 5.6G	Back side	-	102	5510	12.50	12.29	4.95%	0.929	0.975	-
		Back side	-	110	5550	12.50	12.42	1.86%	1.12	1.141	-
		Back side	-	134	5670	12.50	12.41	2.09%	1.23	1.256	326
	WLAN802.11 ac(20M) 5.6G	Back side	-	144	5720	12.50	12.24	6.17%	1.27	1.348	327
		Bottom side	-	144	5720	12.50	12.24	6.17%	0.235	0.249	-
		Left side	-	144	5720	12.50	12.24	6.17%	0.163	0.173	-
	WLAN802.11 ac(40M) 5.6G	Back side	-	102	5510	12.50	12.29	4.95%	0.97	1.018	-
		Back side	-	110	5550	12.50	12.42	1.86%	0.991	1.009	-
		Back side	-	134	5670	12.50	12.41	2.09%	1.31	1.337	328
		Back side	-	142	5710	12.50	12.23	6.41%	1.19	1.266	-
		Bottom side	-	142	5710	12.50	12.23	6.41%	0.261	0.278	-
		Left side	-	142	5710	12.50	12.23	6.41%	0.112	0.119	-
	WLAN802.11 ac(80M) 5.6G	Back side	-	106	5530	12.50	12.26	5.68%	1.08	1.141	-
		Back side	-	138	5690	12.50	12.19	7.40%	1.25	1.342	329
	WLAN802.11 a 5.8G	Back side	-	153	5765	12.50	12.47	0.69%	1.31	1.319	-
		Back side	-	157	5785	12.50	12.45	1.16%	1.46	1.477	330
		Back side	-	165	5825	12.50	12.42	1.86%	1.34	1.365	-
		Back side*	-	157	5785	12.50	12.45	1.16%	1.31	1.325	-
		Bottom side	-	153	5765	12.50	12.47	0.69%	0.248	0.250	-
		Left side	-	153	5765	12.50	12.47	0.69%	0.195	0.196	-
	WLAN802.11 n(40M) 5.8G	Back side	-	151	5755	12.50	12.38	2.80%	1.43	1.470	331
		Back side	-	159	5795	12.50	12.33	3.99%	1.37	1.425	-
	WLAN802.11 ac(40M) 5.8G	Back side	-	151	5755	12.50	12.44	1.39%	1.17	1.186	-
		Back side	-	159	5795	12.50	12.39	2.57%	1.29	1.323	332
	WLAN802.11 ac(80M) 5.8G	Back side	-	155	5775	12.50	12.34	3.75%	1.38	1.432	333

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

WLAN802.11 Aux Antenna_2nd battery spot check

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Aux	WLAN802.11 g	Back side	-	6	2437	16.50	16.18	7.65%	0.97	1.044	334
	WLAN802.11 a 5.2G	Back side	-	44	5220	12.50	12.41	2.09%	0.813	0.830	335
	WLAN802.11 a 5.3G	Back side	-	60	5300	12.50	12.41	2.09%	0.921	0.940	336
	WLAN802.11 a 5.6G	Back side	-	140	5700	12.50	12.39	2.57%	1.29	1.323	337
	WLAN802.11 a 5.8G	Back side	-	157	5785	12.50	12.45	1.16%	1.41	1.426	338

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
GPRS850/1900 + 2.4/5GHz WLAN Main	Yes
GPRS850/1900 + 2.4/5GHz WLAN Aux	Yes
GPRS850/1900 + 2.4/5GHz WLAN MIMO	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN Main	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN Aux	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN MIMO	Yes
LTE B2/4/5/13/17/25 + 2.4/5GHz WLAN Main	Yes
LTE B2/4/5/13/17/25 + 2.4/5GHz WLAN Aux	Yes
LTE B2/4/5/13/17/25 + 2.4/5GHz WLAN MIMO	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN Main	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN Aux	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN MIMO	Yes
GPRS850/1900 + BT + 2.4/5GHz WLAN Aux	Yes
WCDMA B2/4/5 + BT + 2.4/5GHz WLAN Aux	Yes
LTE B2/4/5/13/17/25 + BT + 2.4/5GHz WLAN Aux	Yes
CDMA BC0/BC1 + BT + 2.4/5GHz WLAN Aux	Yes

Note:
1. WWAN and WLAN antennas may transmit simultaneously.
2. Bluetooth and WLAN share the same antenna path, and BT may transmit with WLAN Aux simultaneously.
3. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission (for 802.11n/ac) is much less than that used in standalone transmission (for 802.11a/b/g/n/ac), so it is more conservative to use the sum of 1-g SAR provision in KDB447498D01 to exclude the SAR measurement for 802.11n/ac MIMO.

3.1 Estimated SAR calculation

According to KDB447498 D01v05 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

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

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

Mode / Band	frequency(GHz)	Max. tune-up power(dBm)	Test position	test separation distance(mm)	Estimated SAR(W/kg)
GPRS 850 (class 10)	0.8488	33	Left / Bottom side	78.11/188.16	0.4
GPRS 1900 (class 10)	1.9098	30.5	Left / Bottom side	78.11/188.16	0.4
WCDMA B2	1.9076	24.5	Left / Bottom side	78.11/188.16	0.4
WCDMA B4	1.7526	24.5	Left / Bottom side	78.11/188.16	0.4
WCDMA B5	0.8466	24.5	Left / Bottom side	78.11/188.16	0.4
CDMA BC0	0.848	24.5	Left / Bottom side	78.11/188.16	0.4
CDMA BC1	1.908	24.5	Left / Bottom side	78.11/188.16	0.4
LTE B2	1.9	24	Left / Bottom side	78.11/188.16	0.4
LTE B4	1.745	24	Left / Bottom side	78.11/188.16	0.4
LTE B5	0.844	24	Left / Bottom side	78.11/188.16	0.4

Mode / Band	frequency(GHz)	Max. tune-up power(dBm)	Test position	test separation distance(mm)	Estimated SAR(W/kg)
LTE B13	0.782	24	Left / Bottom side	78.11/188.16	0.4
LTE B17	0.711	24	Left / Bottom side	78.11/188.16	0.4
LTE B25	1.905	24	Left / Bottom side	78.11/188.16	0.4
WLAN Main	2.462	16.5	Top side	25.47	0.367
WLAN Main	5.825	12.5	Top side	25.47	0.225
WLAN Main	2.462	16.5	Right / Bottom side	124.32/151.46	0.4
WLAN Main	5.825	12.5	Right / Bottom side	124.32/151.46	0.4
WLAN Aux	2.462	16.5	Top / Right side	195.93 / 110.32	0.4
WLAN Aux	5.825	12.5	Top / Right side	195.93 / 110.32	0.4

Mode / Band	frequency(GHz)	Maximum power(dBm)	Test position	test separation distance(mm)	Estimated SAR(W/kg)
BT	2.48	4.41	Top side	25.47	0.023
BT	2.48	4.41	Left / Back side	Less than 5	0.116
BT	2.48	4.41	Right / Bottom sides	Larger than 50	0.4

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3.2 SPLSR evaluation and analysis

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

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

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

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

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

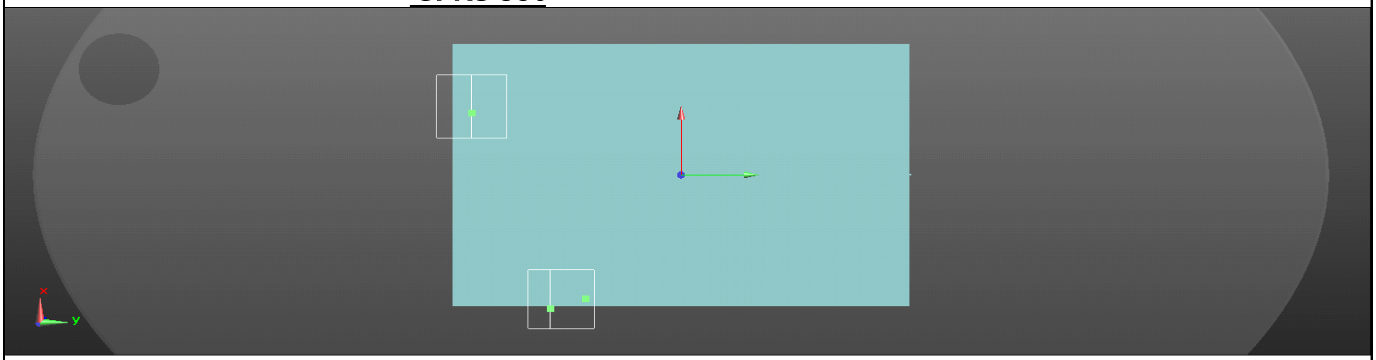
GPRS 850 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. GPRS850	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR GPRS850 & WLAN Main	SPLSR GPRS850 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
1	GPRS850 + 2.4GHz WLAN MIMO	Back side	0	1.201	0.814	1.069	**3.084**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.207	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.227	0.367	0.4	0.994	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.414	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.246	0.4	0.4	1.046	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.571	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR GPRS850 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
GPRS850 CH 190	Back side	1.201	3.18	-9.5	-0.25	2.015	106.3	0.027	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

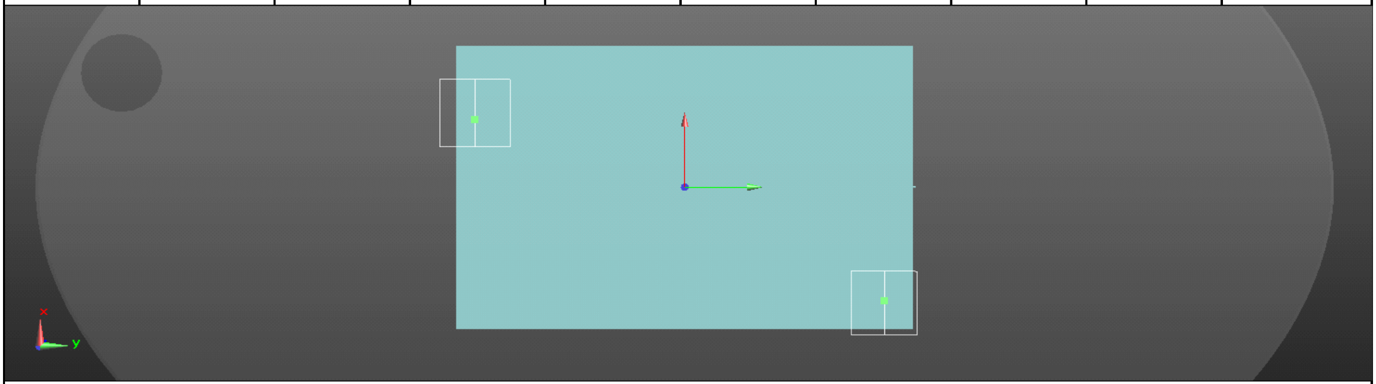
GPRS 850



WLAN Main

SPLSR GPRS850 & WLAN Aux

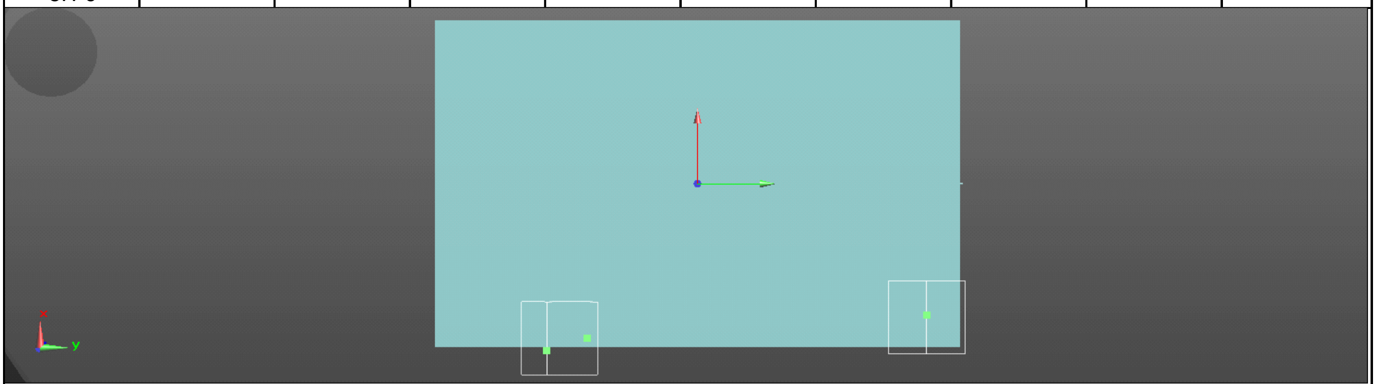
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
GPRS850 CH 190	Back side	1.201	3.18	-9.5	-0.25	2.27	204.2	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



GPRS 850 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

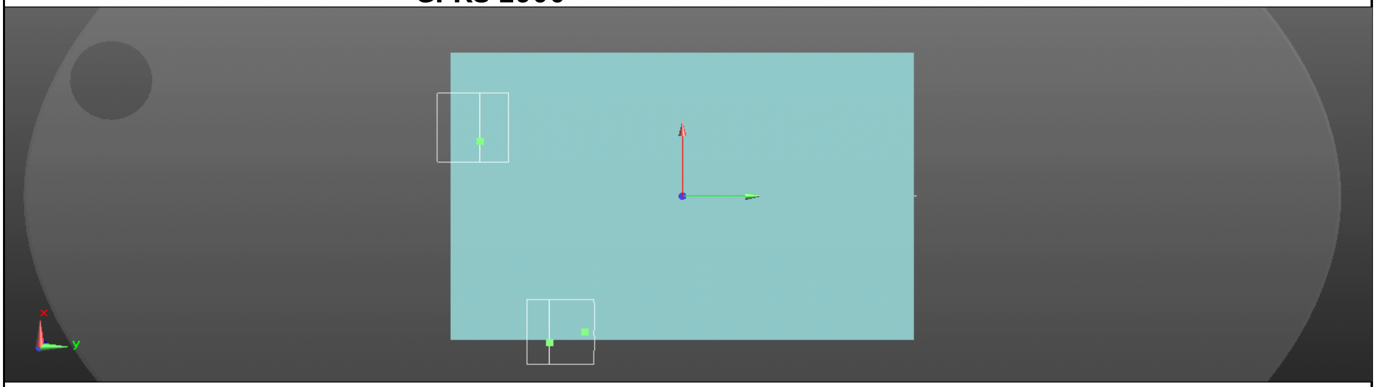
GPRS 1900 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. GPRS1900	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR GPRS1900 & WLAN Main	SPLSR GPRS1900 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
2	GPRS1900 + 2.4GHz WLAN MIMO	Back side	0	0.912	0.814	1.069	**2.795**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.227	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.093	0.367	0.4	0.86	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.373	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.087	0.4	0.4	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.317	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR GPRS1900 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
GPRS1900 CH 661	Back side	0.912	2.56	-9.03	-0.19	1.726	98.9	0.023	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

GPRS 1900



WLAN Main

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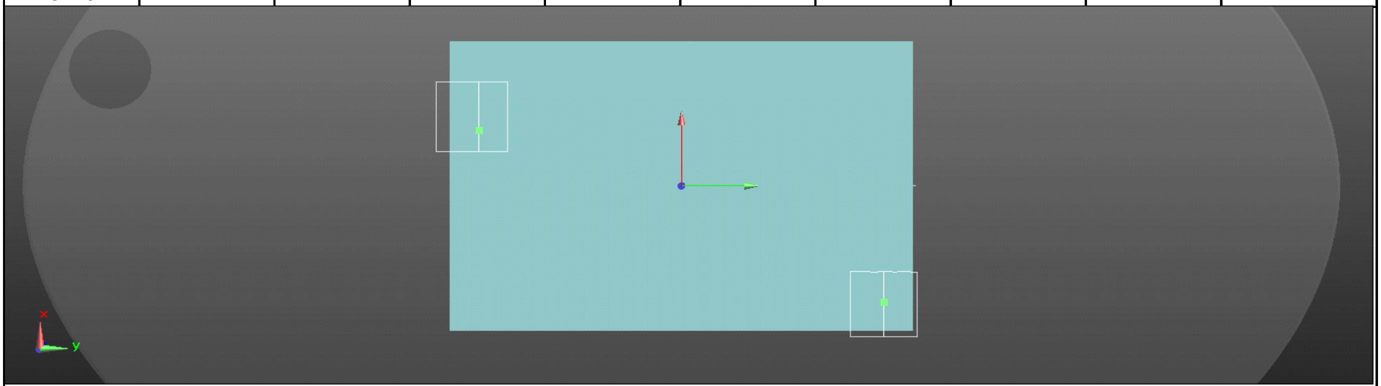
SPLSR GPRS1900 & WLAN Aux

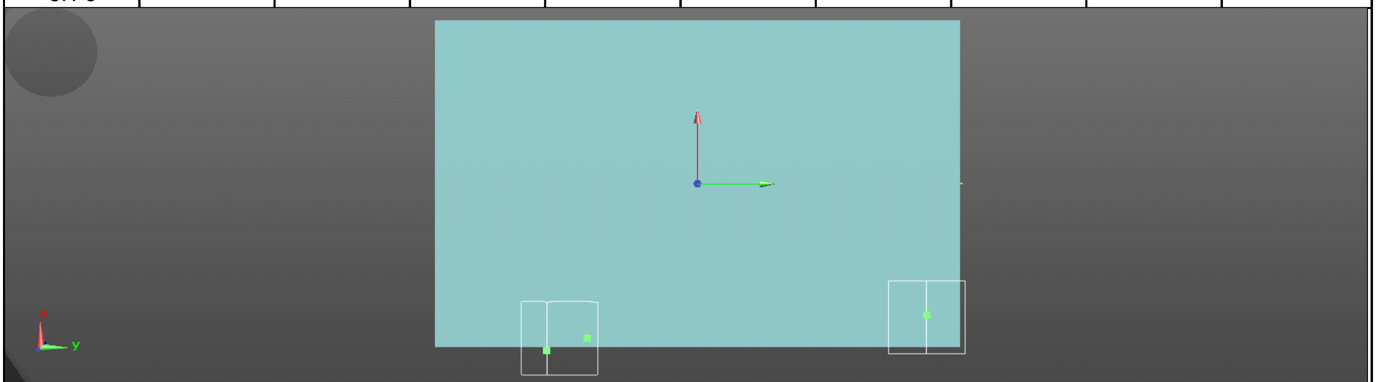
Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	Coordinates (cm) y	Coordinates (cm) z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
GPRS1900 CH 661	Back side	0.912	2.56	-9.03	-0.19	1.981	197.4	0.014	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



GPRS 1900 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	Coordinates (cm) y	Coordinates (cm) z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

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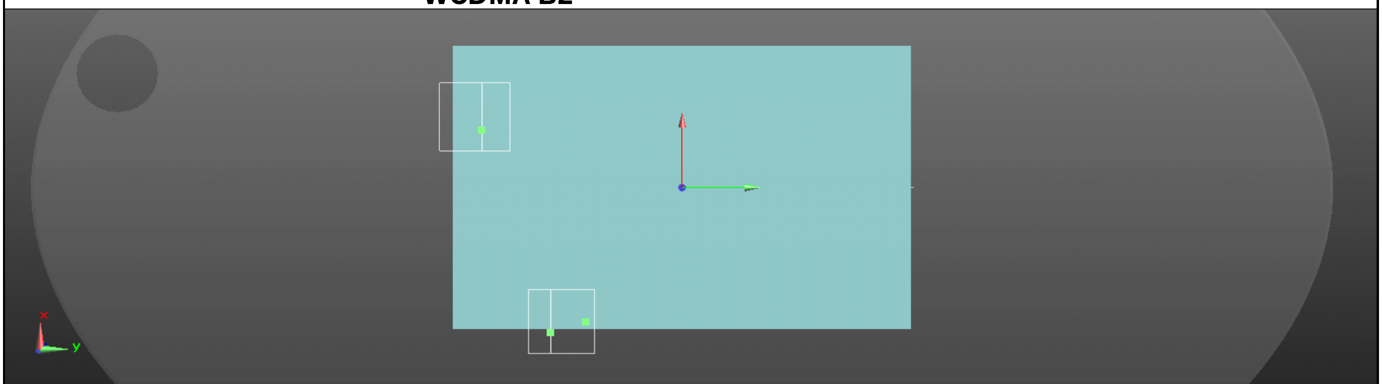
WCDMA Band II + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WCDMA B2	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B2 & WLAN Main	SPLSR WCDMA B2 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
3	WCDMA B2 + 2.4GHz WLAN MIMO	Back side	0	1.007	0.814	1.069	**2.89**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.358	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.065	0.367	0.4	0.832	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.517	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.068	0.4	0.4	0.868	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.384	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR WCDMA B2 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B2 CH 9262	Back side	1.007	2.71	-9.03	-0.23	1.821	100.3	0.024	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

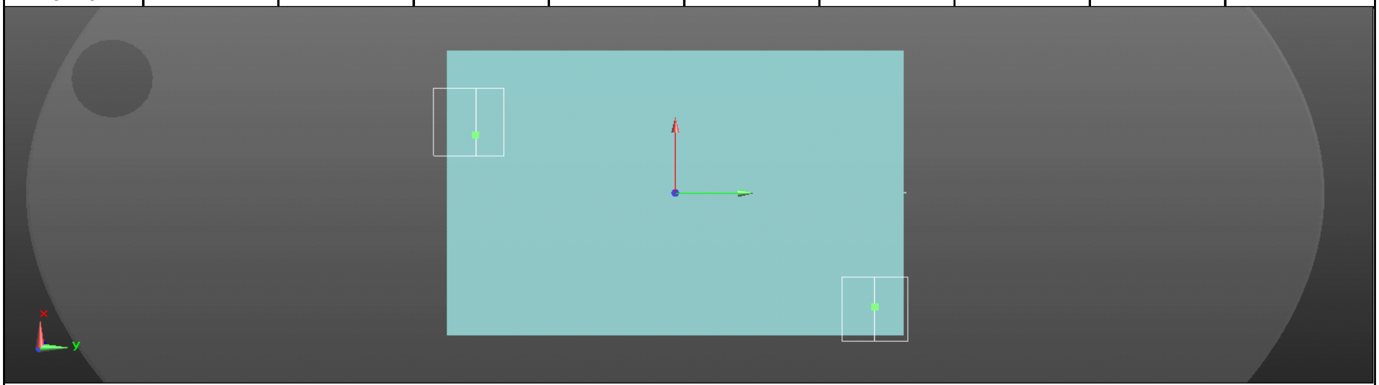
WCDMA B2



WLAN Main

SPLSR WCDMA B2 & WLAN Aux

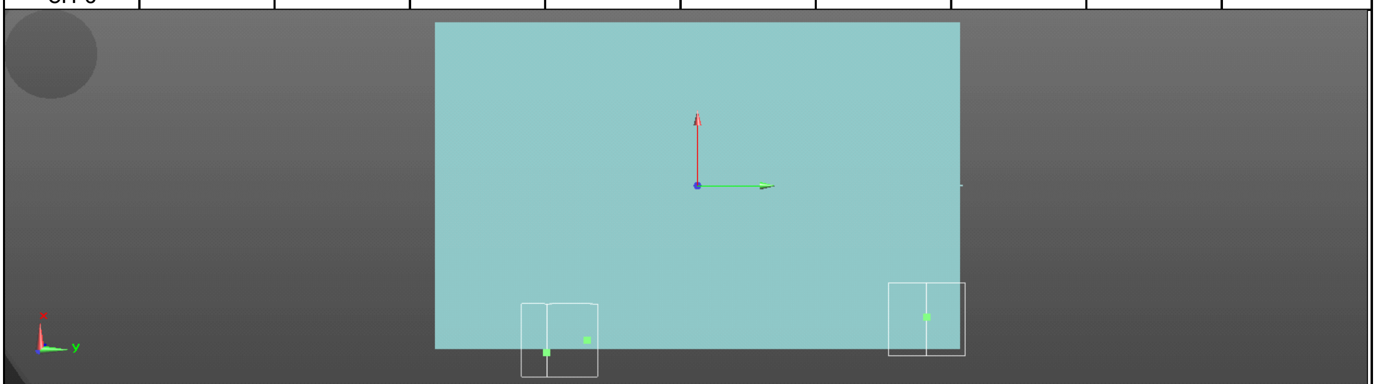
Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B2 CH 9262	Back side	1.007	2.71	-9.03	-0.23	2.076	198	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WCDMA B2 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

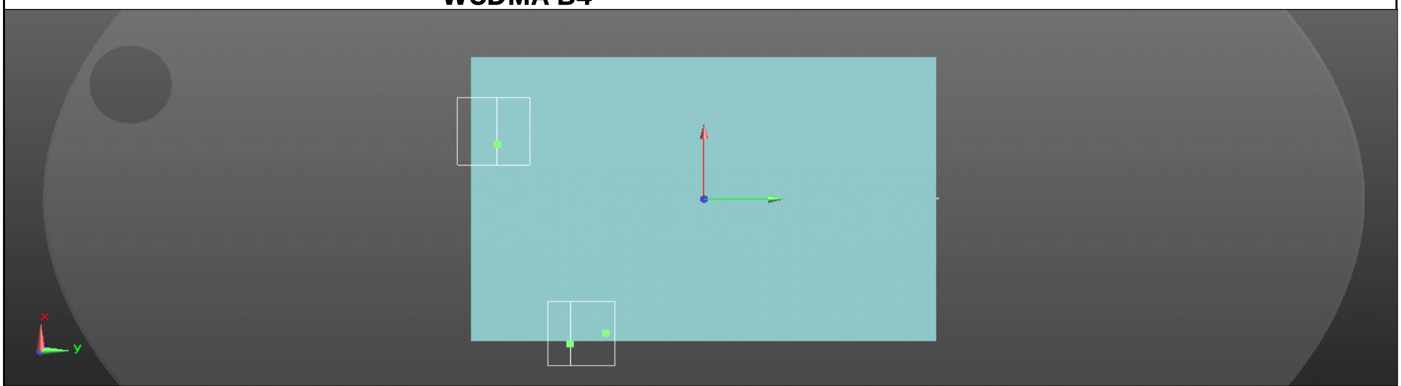
WCDMA Band IV + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WCDMA B4	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B4 & WLAN Main	SPLSR WCDMA B4 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
4	WCDMA B4 + 2.4GHz WLAN MIMO	Back side	0	1.08	0.814	1.069	**2.963**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.215	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.116	0.367	0.4	0.883	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.478	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.135	0.4	0.4	0.935	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.461	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR WCDMA B4 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B4 CH 1513	Back side	1.08	2.56	-9.19	-0.26	1.894	99.4	0.026	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

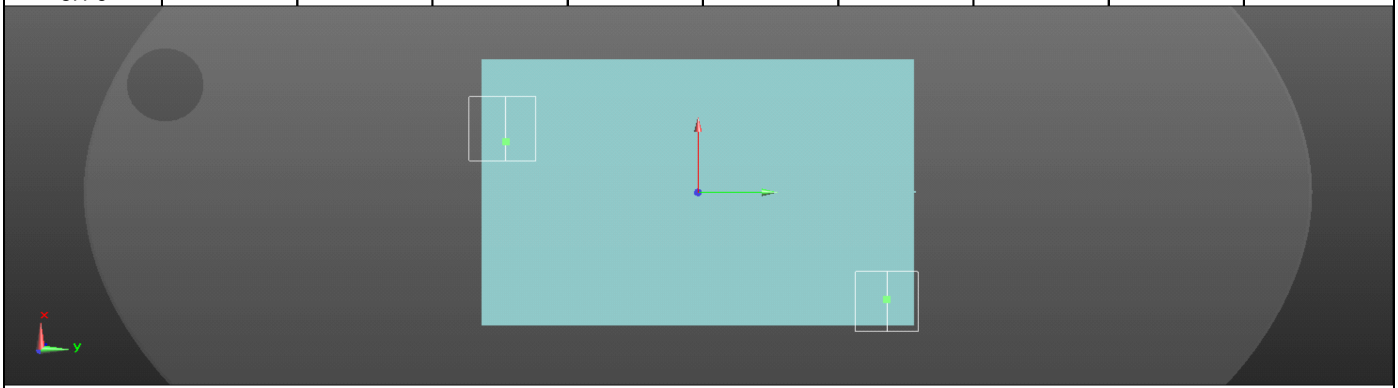
WCDMA B4



WLAN Main

SPLSR WCDMA B4 & WLAN Aux

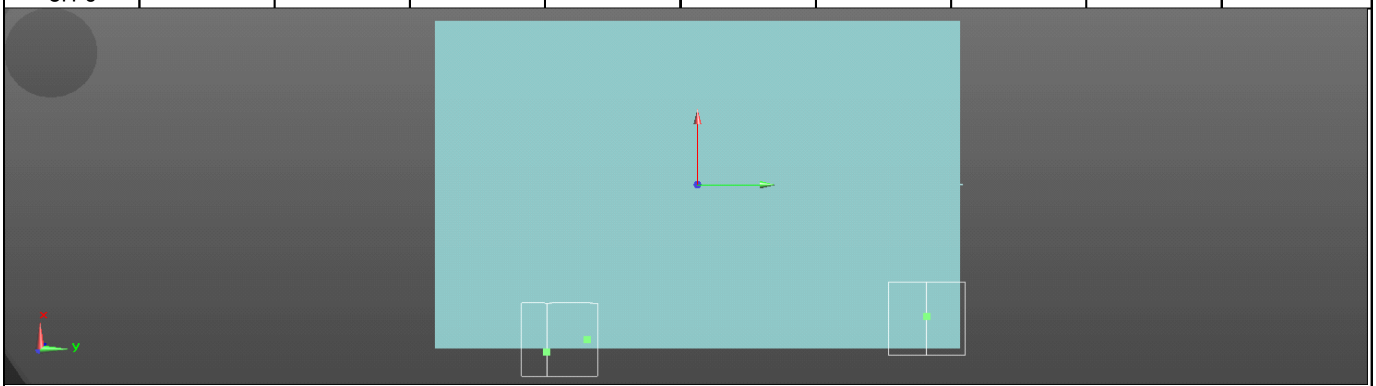
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B4 CH 1513	Back side	1.08	2.56	-9.19	-0.26	2.149	198.8	0.016	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WCDMA B4 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

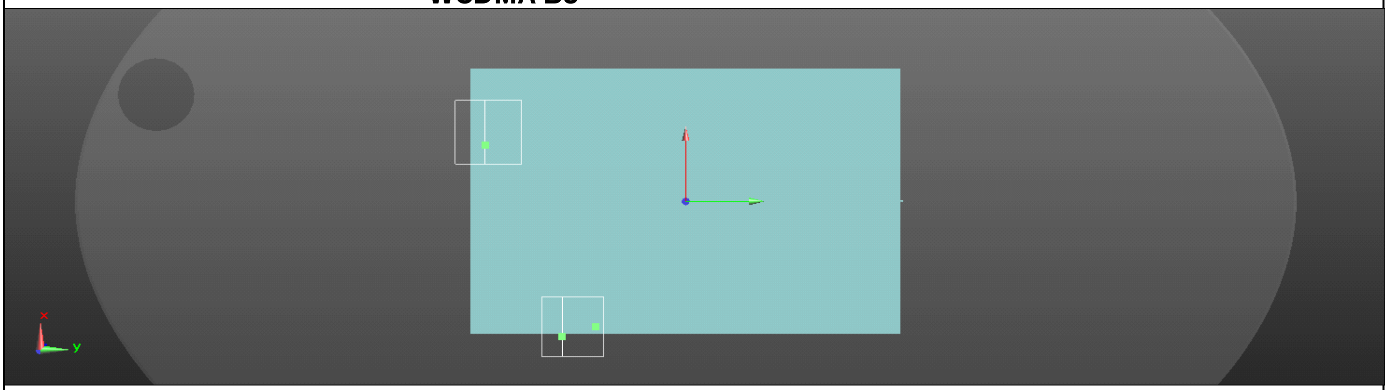
WCDMA Band V + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WCDMA B5	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B5 & WLAN Main	SPLSR WCDMA B5 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
5	WCDMA B5 + 2.4GHz WLAN MIMO	Back side	0	1.197	0.814	1.069	**3.08**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.183	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.243	0.367	0.4	1.01	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.159	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.265	0.4	0.4	1.065	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.772	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR WCDMA B5 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	Coordinates (cm) y	Coordinates (cm) z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B5 CH 4233	Back side	1.197	2.86	-9.66	-0.3	2.011	103.9	0.027	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

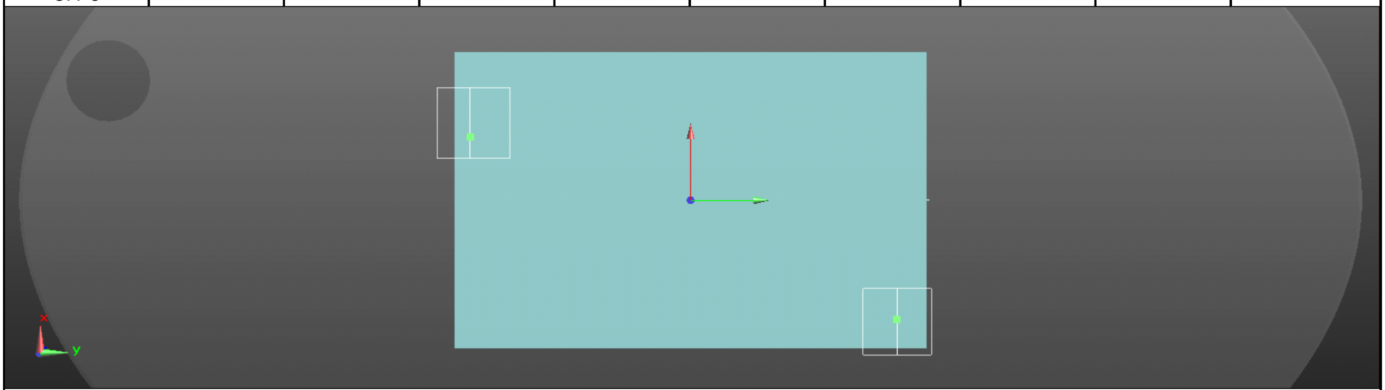
WCDMA B5



WLAN Main

SPLSR WCDMA B5 & WLAN Aux

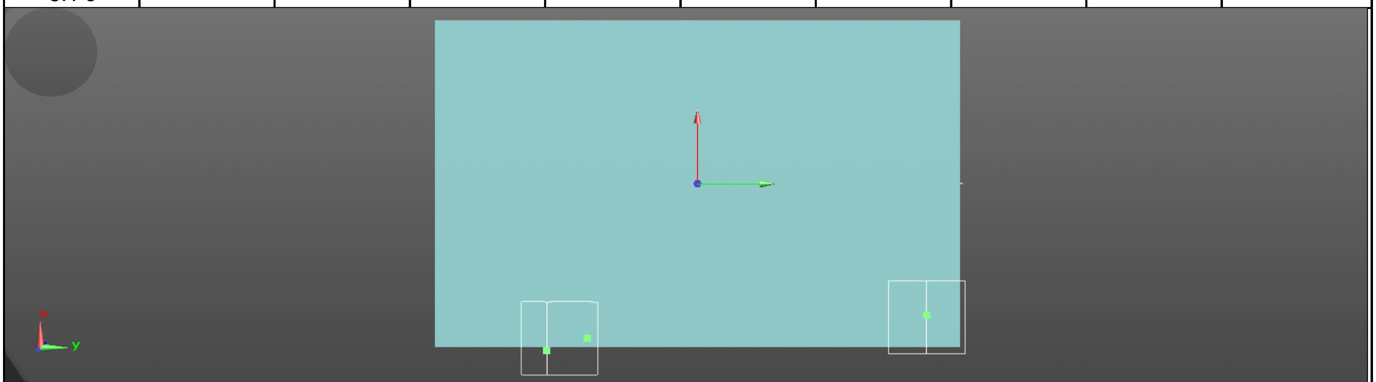
Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B5 CH 4233	Back side	1.197	2.86	-9.66	-0.3	2.266	204.3	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WCDMA B5 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

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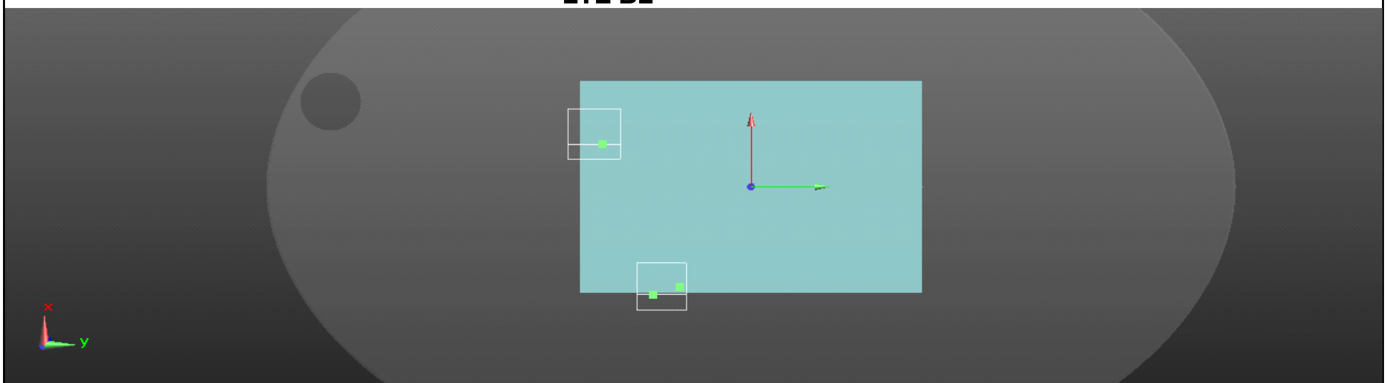
LTE FDD Band II + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B2	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B2 & WLAN Main	SPLSR LTE B2 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
6	LTE B2 + 2.4GHz WLAN MIMO	Back side	0	0.81	0.814	1.069	**2.693**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.282	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.055	0.367	0.4	0.822	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.431	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.06	0.4	0.4	0.86	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.378	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 2 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B2 CH 18700	Back side	0.81	2.71	-9.02	-0.2	1.624	100.3	0.021	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

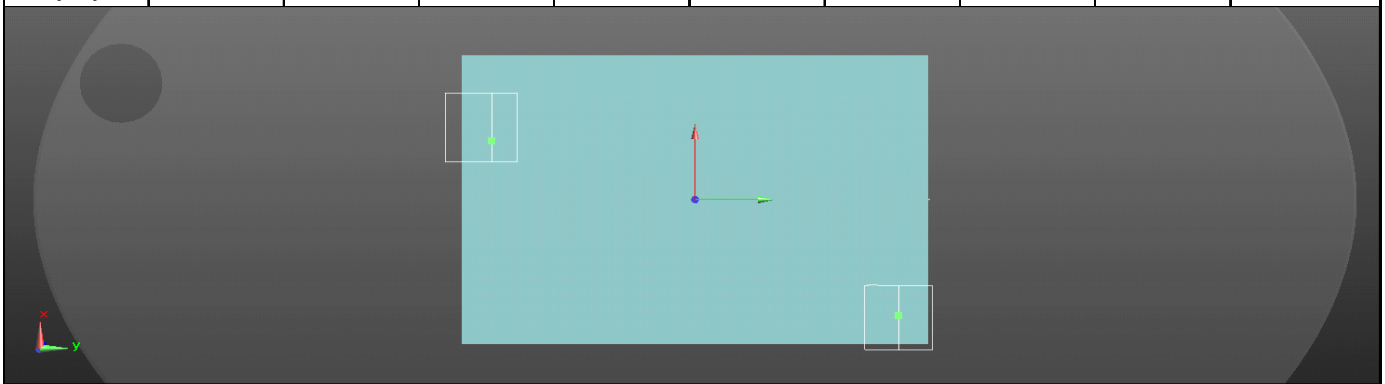
LTE B2



WLAN Main

SPLSR LTE Band 2 & WLAN Aux

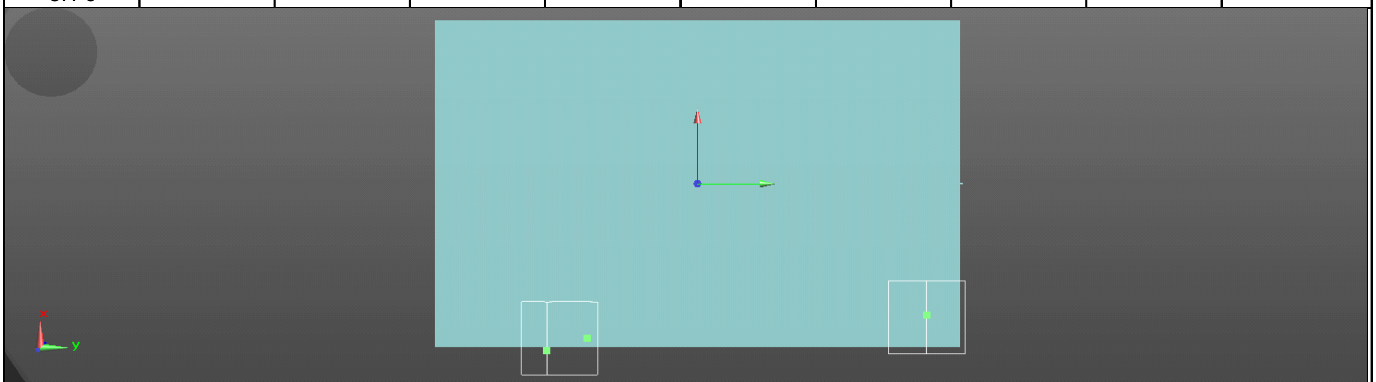
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B2 CH 18700	Back side	0.81	2.71	-9.02	-0.2	1.879	197.9	0.013	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B2 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

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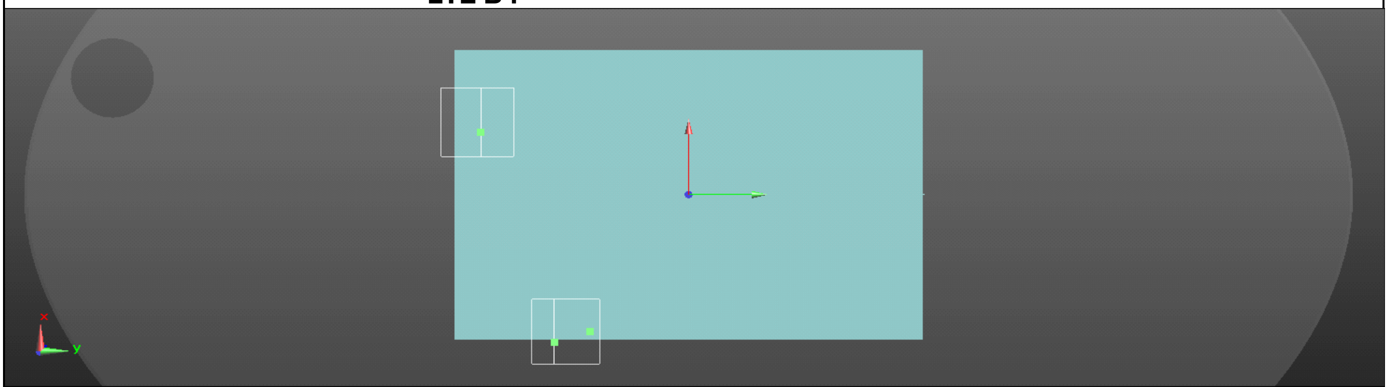
LTE FDD Band IV + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B4	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B4 & WLAN Main	SPLSR LTE B4 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
7	LTE B4 + 2.4GHz WLAN MIMO	Back side	0	1.34	0.814	1.069	**3.223**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.153	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.12	0.367	0.4	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.351	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.142	0.4	0.4	0.942	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.365	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 4 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B4 CH 20300	Back side	1.34	2.87	-9.19	-0.2	2.154	102.4	0.031	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

LTE B4



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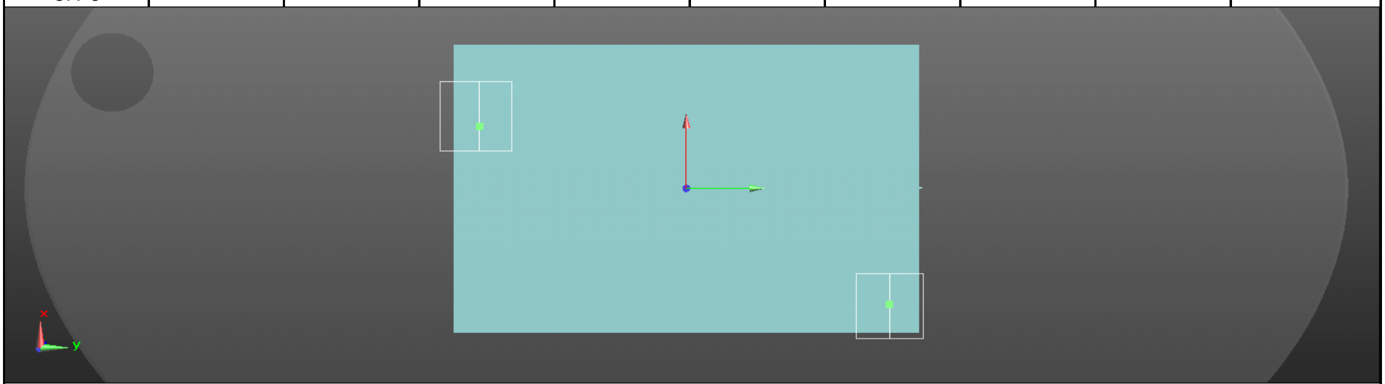
SPLSR LTE Band 4 & WLAN Aux

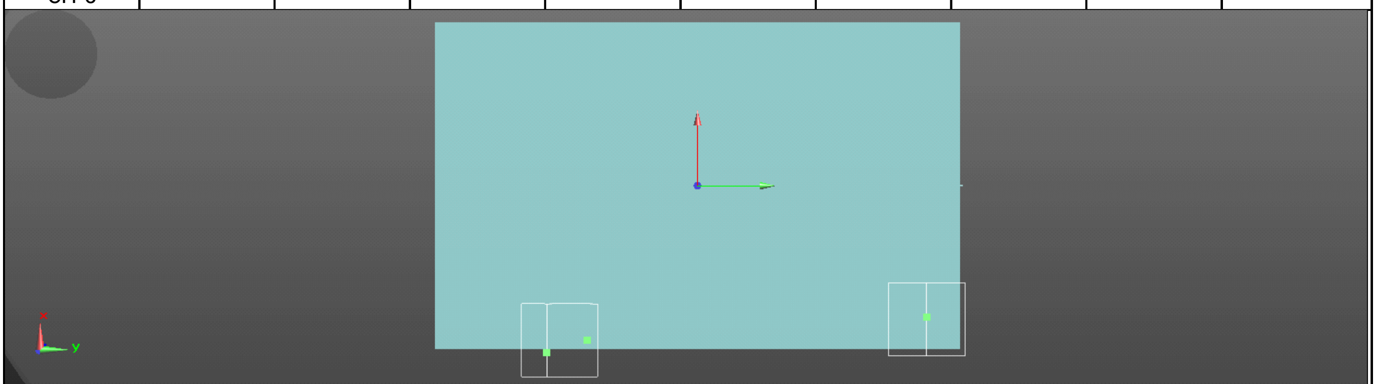
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B4 CH 20300	Back side	1.34	2.87	-9.19	-0.2	2.409	200.1	0.019	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B4 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



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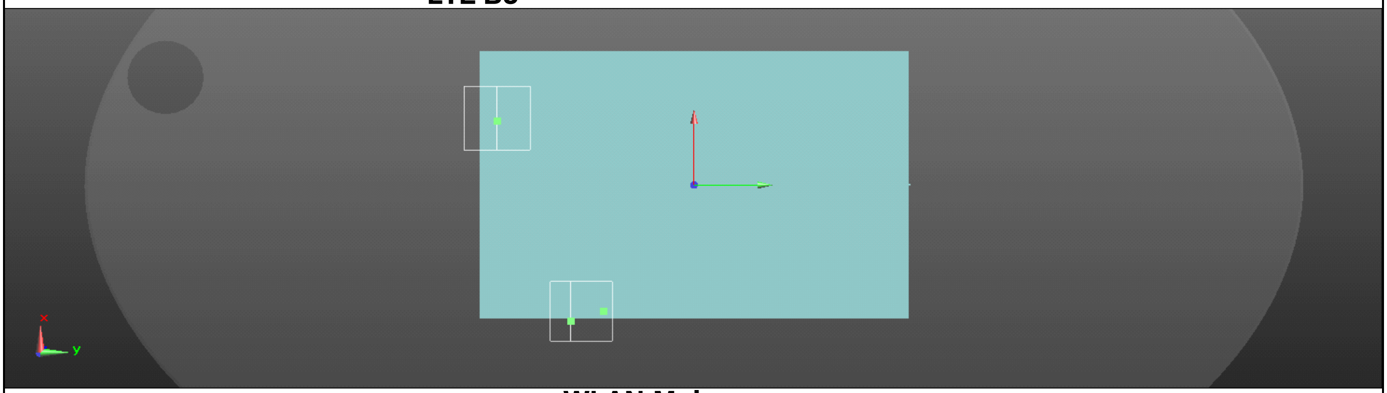
LTE FDD Band V + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B5	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B5 & WLAN Main	SPLSR LTE B5 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
8	LTE B5 + 2.4GHz WLAN MIMO	Back side	0	1.42	0.814	1.069	**3.303**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.162	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.2	0.367	0.4	0.967	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.952	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.324	0.4	0.4	1.124	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.535	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 5 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B5 CH 20450	Back side	1.42	3.19	-9.5	-0.27	2.234	106.4	0.031	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

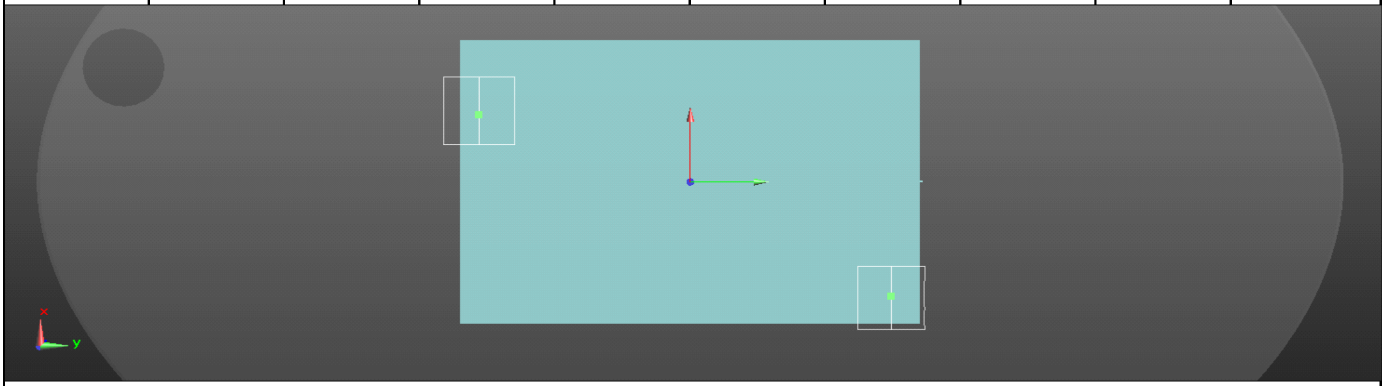
LTE B5



WLAN Main

SPLSR LTE Band 5 & WLAN Aux

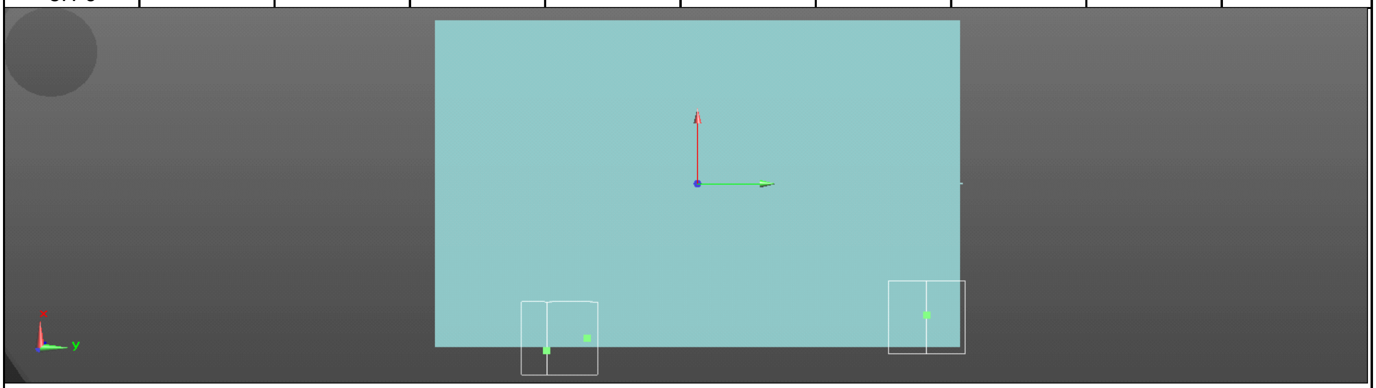
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B5 CH 20450	Back side	1.42	3.19	-9.5	-0.27	2.489	204.2	0.019	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B5 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



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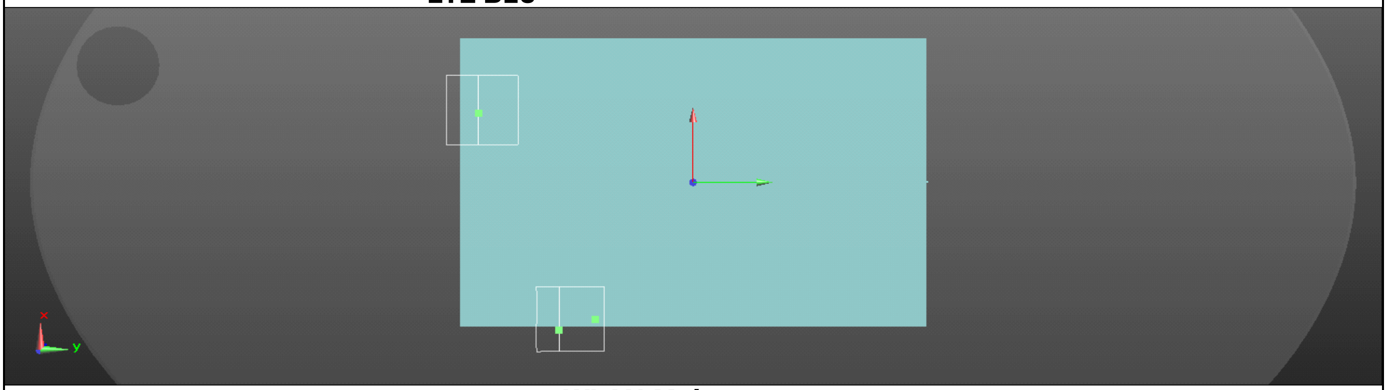
LTE FDD Band XIII + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B13	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B13 & WLAN Main	SPLSR LTE B13 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
9	LTE B13 + 2.4GHz WLAN MIMO	Back side	0	1.404	0.814	1.069	**3.287**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.1	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.207	0.367	0.4	0.974	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.727	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.278	0.4	0.4	1.078	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.367	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 13 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B13 CH 23230	Back side	1.404	3.19	-9.51	-0.27	2.218	106.4	0.031	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

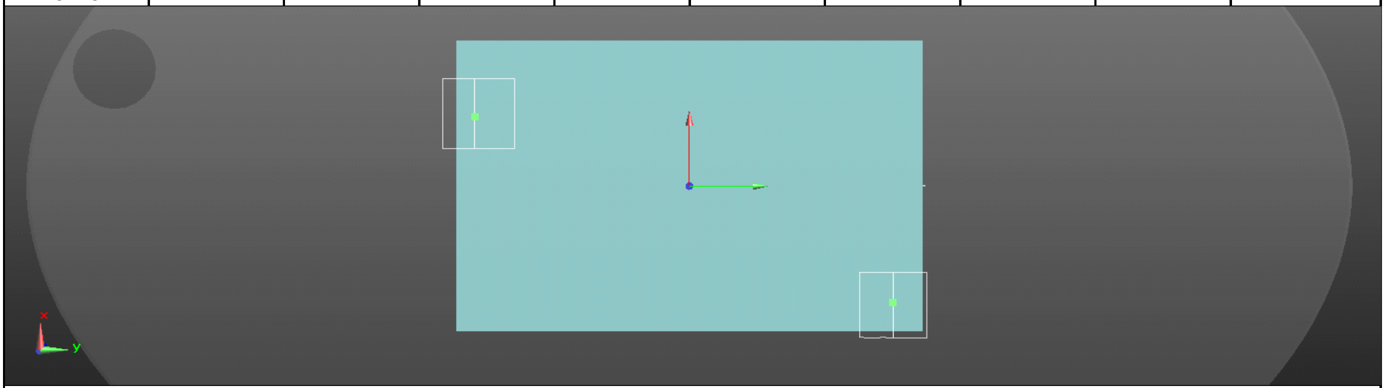
LTE B13



WLAN Main

SPLSR LTE Band 13 & WLAN Aux

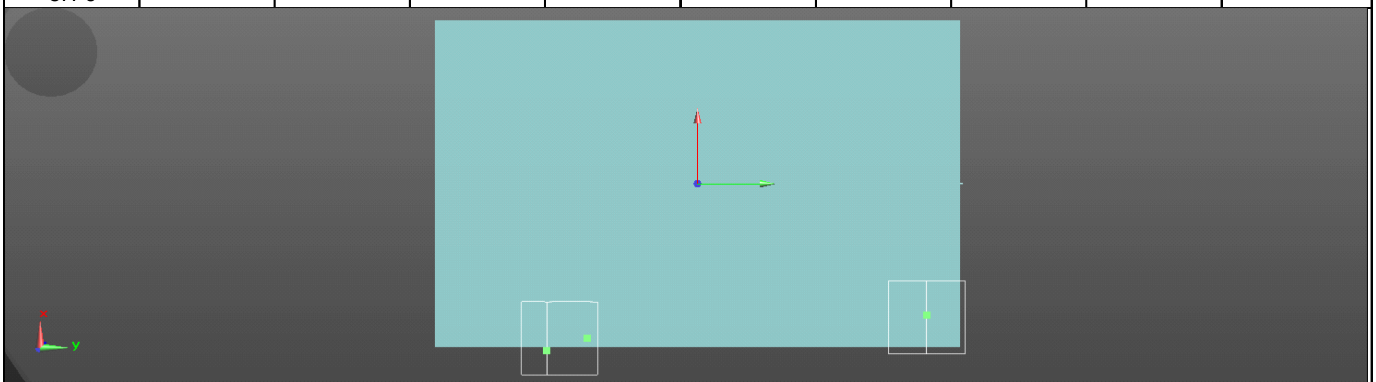
Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	Coordinates (cm) y	Coordinates (cm) z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B13 CH 23230	Back side	1.404	3.19	-9.51	-0.27	2.473	204.3	0.019	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B13 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	Coordinates (cm) y	Coordinates (cm) z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



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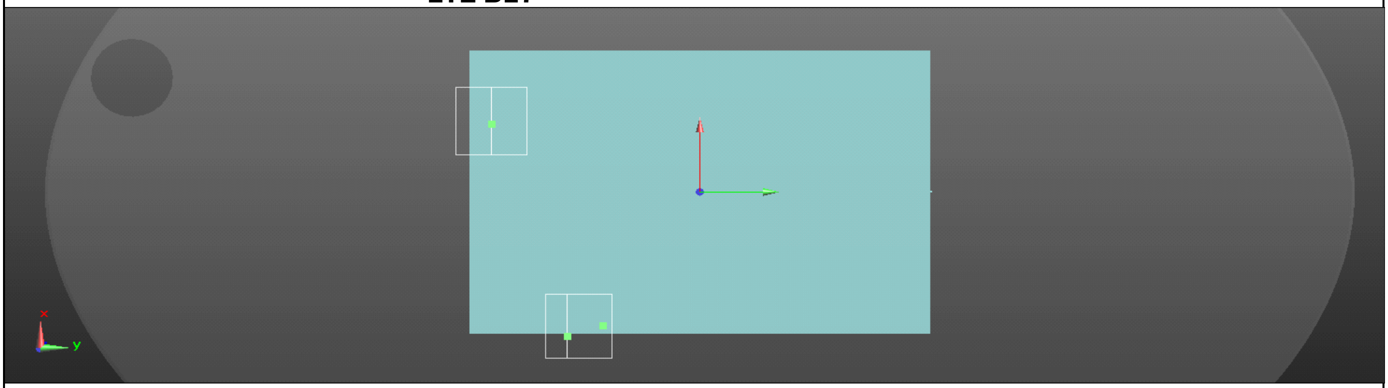
LTE FDD Band XVII + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B17	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B17 & WLAN Main	SPLSR LTE B17 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
10	LTE B17 + 2.4GHz WLAN MIMO	Back side	0	1.035	0.814	1.069	**2.918**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.042	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.188	0.367	0.4	0.955	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.462	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.175	0.4	0.4	0.975	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.135	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 17 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B17 CH 23800	Back side	1.035	3.19	-9.35	-0.27	1.849	105.9	0.024	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

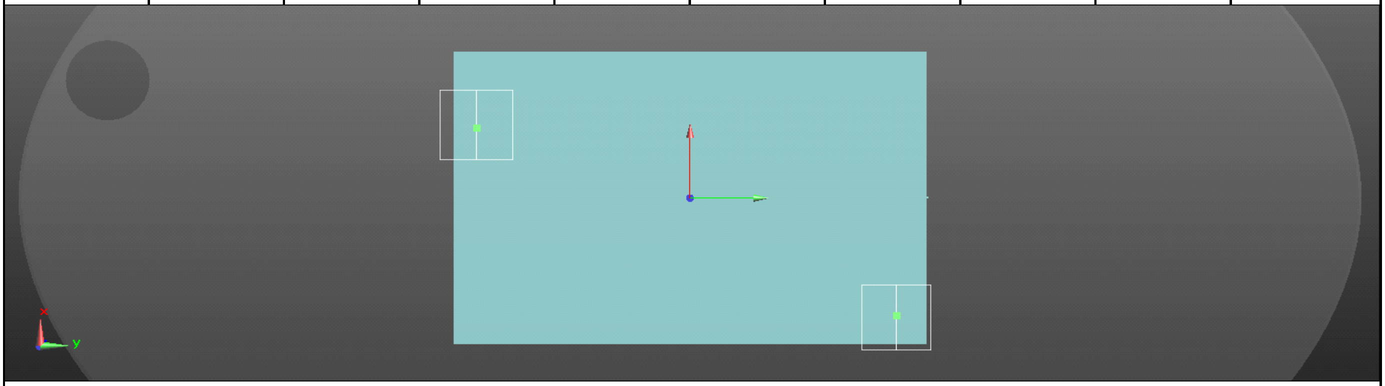
LTE B17



WLAN Main

SPLSR LTE Band 17 & WLAN Aux

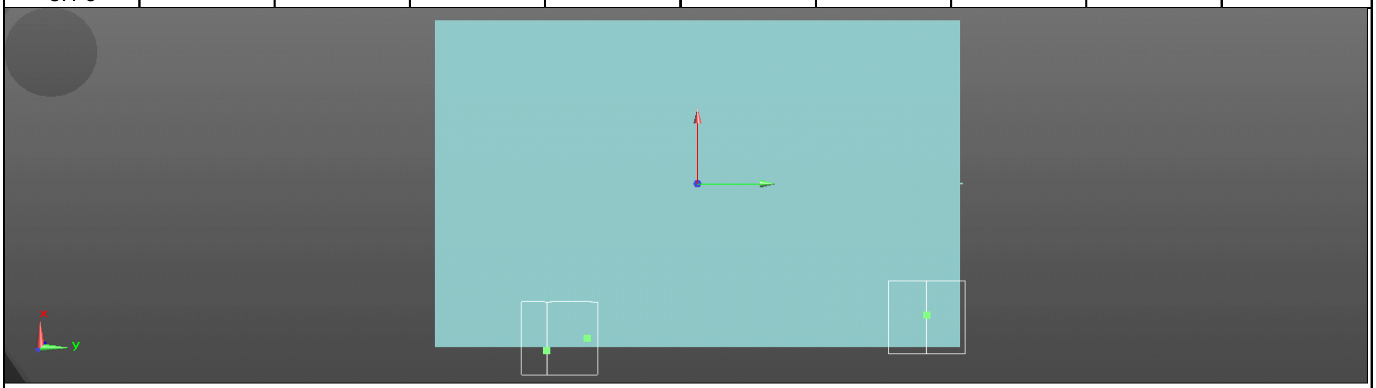
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B17 CH 23800	Back side	1.035	3.19	-9.35	-0.27	2.104	202.9	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B17 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

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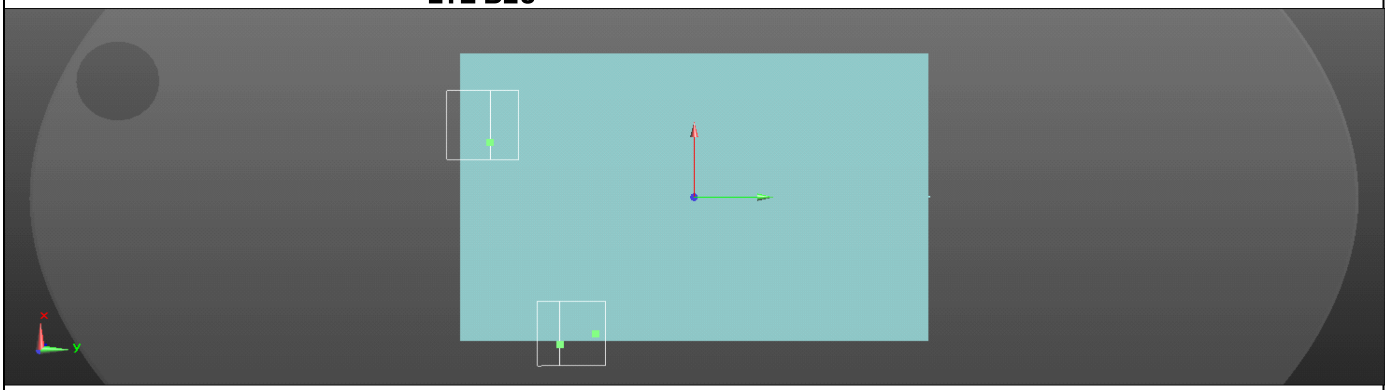
LTE FDD Band XXV + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B25	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B25 & WLAN Main	SPLSR LTE B25 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
11	LTE B25 + 2.4GHz WLAN MIMO	Back side	0	0.97	0.814	1.069	**2.853**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.235	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.087	0.367	0.4	0.854	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.35	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.107	0.4	0.4	0.907	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.351	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 25 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B25 CH 26140	Back side	0.97	2.55	-9.03	-0.22	1.784	98.8	0.024	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

LTE B25



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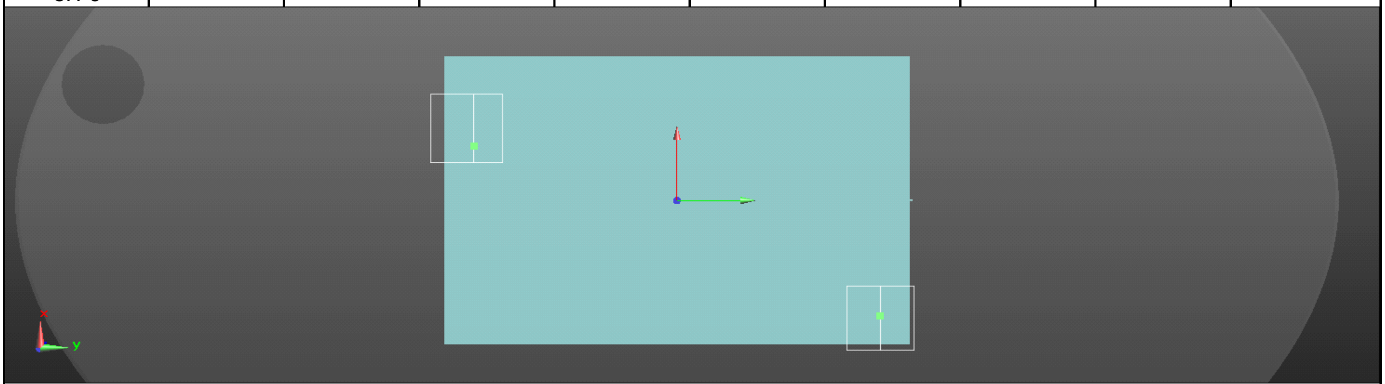
SPLSR LTE Band 25 & WLAN Aux

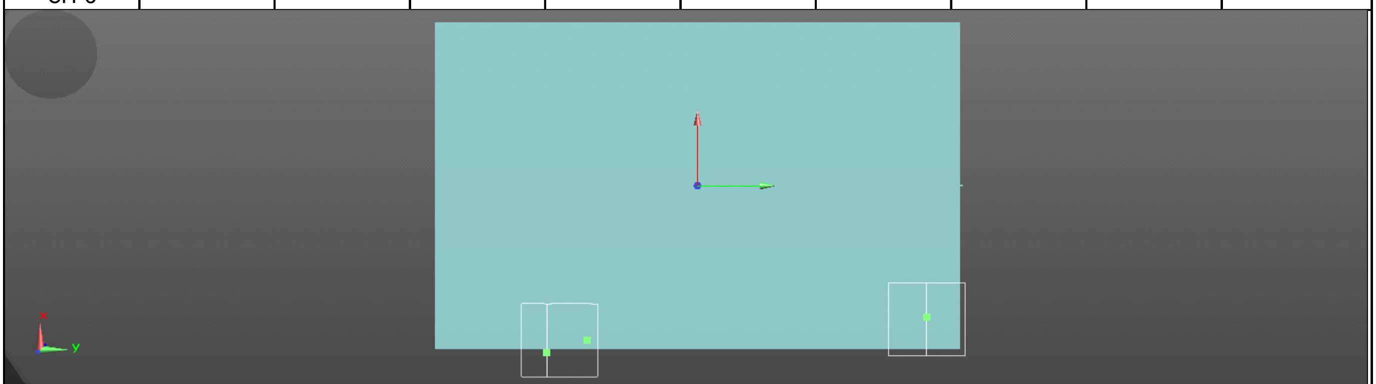
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B25 CH 26140	Back side	0.97	2.55	-9.03	-0.22	2.039	197.3	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B25 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

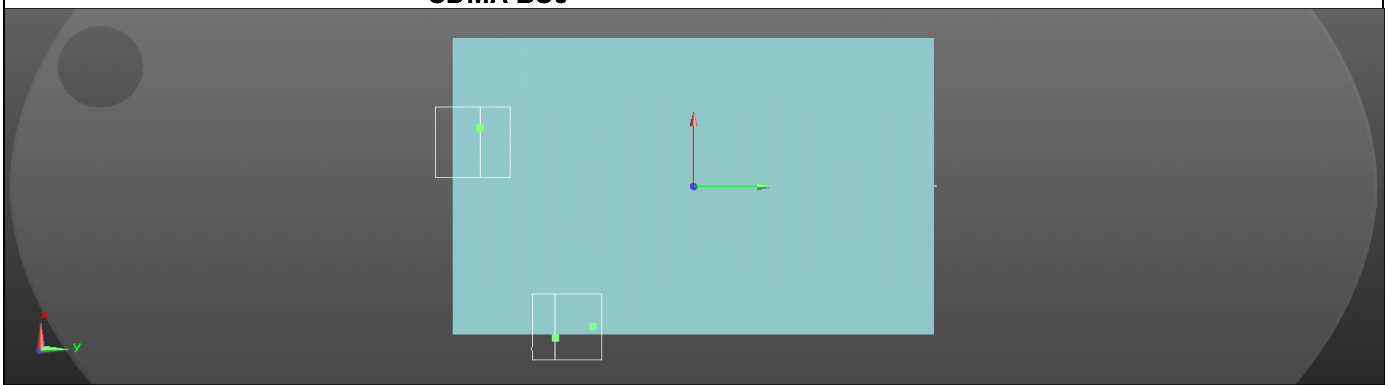
CDMA / EVDO BC0 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. BC0	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR BC0 & WLAN Main	SPLSR BC0 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
12	CDMA / EVDO BC0 + 2.4GHz WLAN MIMO	Back side	0	1.379	0.814	1.069	**3.262**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.149	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.289	0.367	0.4	1.056	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.21	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.309	0.4	0.4	1.109	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.632	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR CDMA / EVDO BC0 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC0 CH 777	Back side	1.379	2.64	-9.18	-0.34	2.193	100.2	0.032	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

CDMA BC0



WLAN Main

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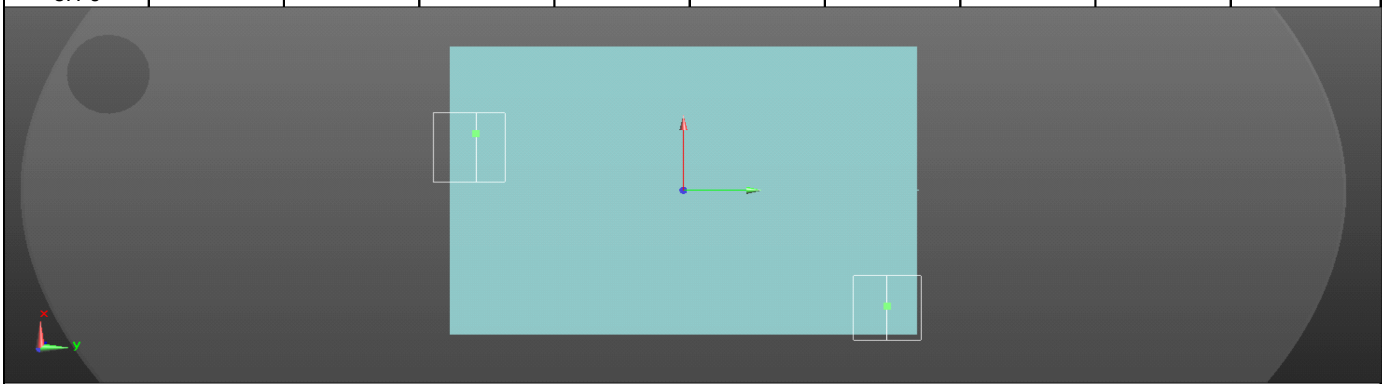
SPLSR CDMA / EVDO BC0 & WLAN Aux

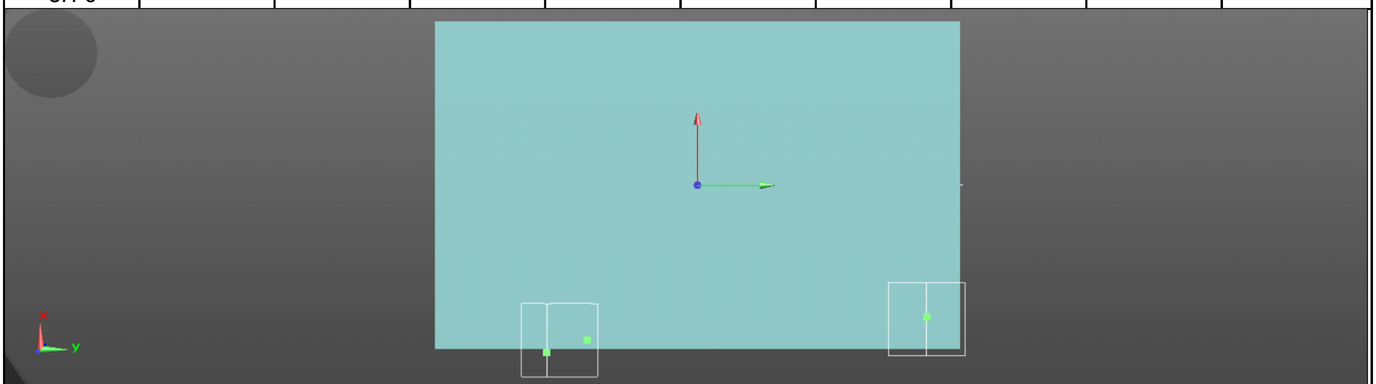
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC0 CH 777	Back side	1.379	2.64	-9.18	-0.34	2.448	199.1	0.019	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



CDMA BC0 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

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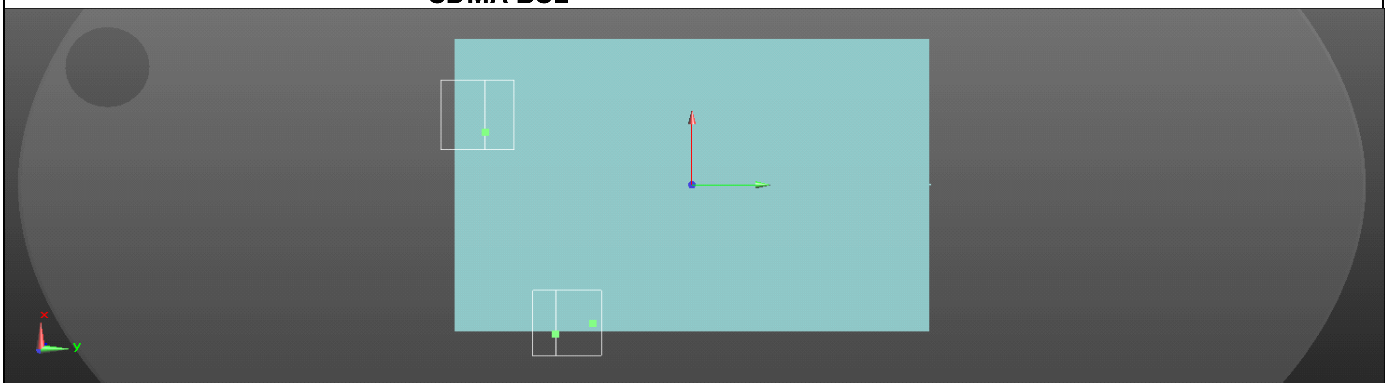
CDMA / EVDO BC1 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. BC1	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR BC1 & WLAN Main	SPLSR BC1 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
13	CDMA / EVDO BC1 + 2.4GHz WLAN MIMO	Back side	0	1.021	0.814	1.069	**2.904**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.297	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.082	0.367	0.4	0.849	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.56	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.279	0.208	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.083	0.4	0.4	0.883	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.48	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR CDMA / EVDO BC1 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC1 CH 25	Back side	1.021	2.4	-9.03	-0.25	1.835	97.4	0.026	SPLSR<0.04, Not required
802.11 n(20M)CH 6		0.814	-6.84	-5.94	-0.19				

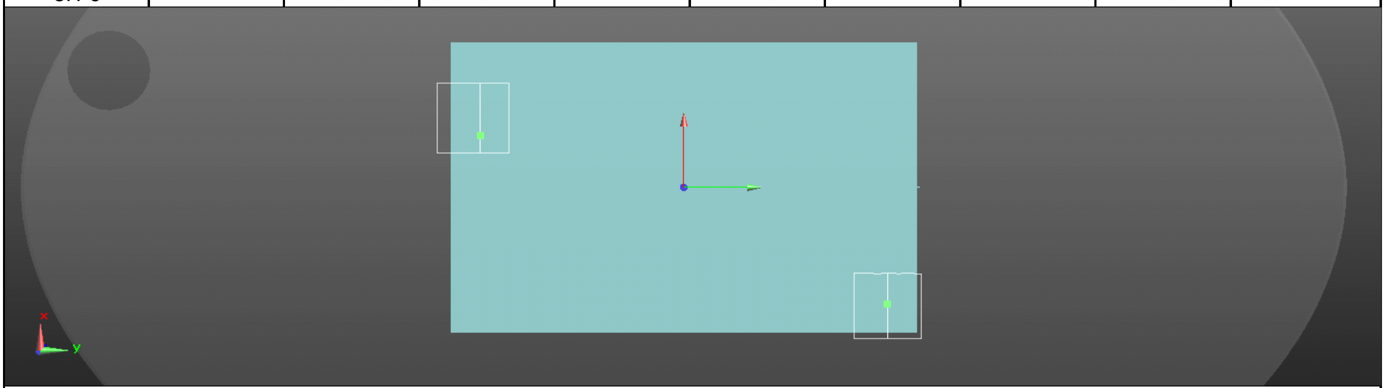
CDMA BC1



WLAN Main

SPLSR CDMA / EVDO BC1 & WLAN Aux

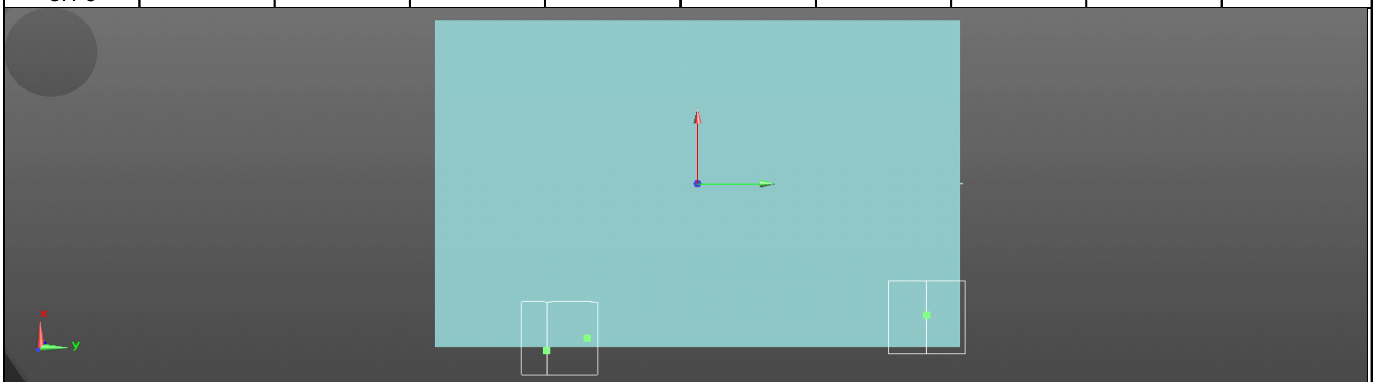
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC1 CH 25	Back side	1.021	2.4	-9.03	-0.25	2.09	196.7	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



CDMA BC1 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11 n(20M)CH 6	Back side	0.814	-6.84	-5.94	-0.19	1.883	150.5	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WLAN Main **WLAN Aux**

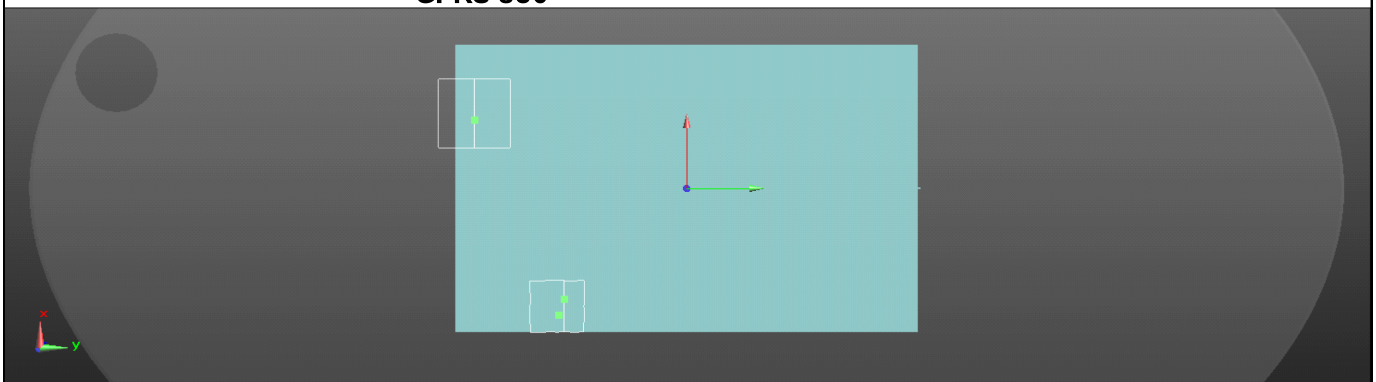
GPRS 850 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. GPRS850	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR GPRS850 & WLAN Main	SPLSR GPRS850 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
14	GPRS850 + 5GHz WLAN MIMO	Back side	0	1.201	0.771	1.477	**3.449**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.207	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.227	0.225	0.4	0.852	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.414	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.246	0.4	0.4	1.046	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.571	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR GPRS850 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
GPRS850 CH 190	Back side	1.201	3.19	-9.19	-0.15	1.972	92.7	0.030	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

GPRS 850



WLAN Main

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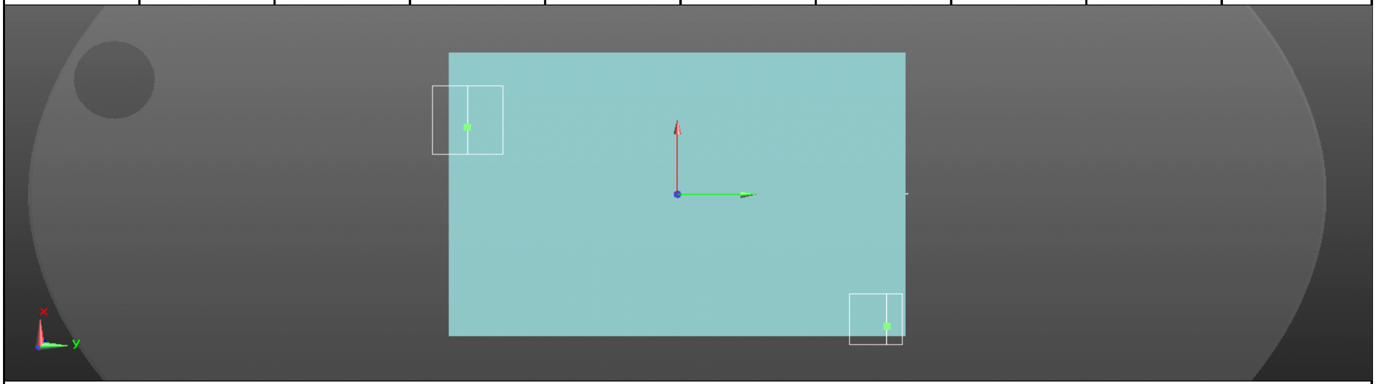
SPLSR GPRS850 & WLAN Aux

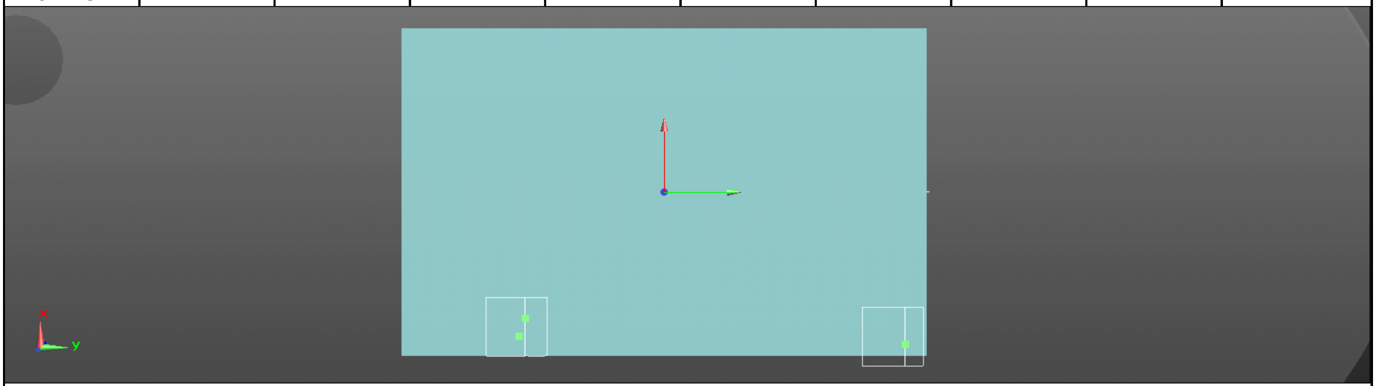
Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
GPRS850 CH 190	Back side	1.201	3.18	-9.5	-0.25	2.678	211.8	0.021	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



GPRS 850 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

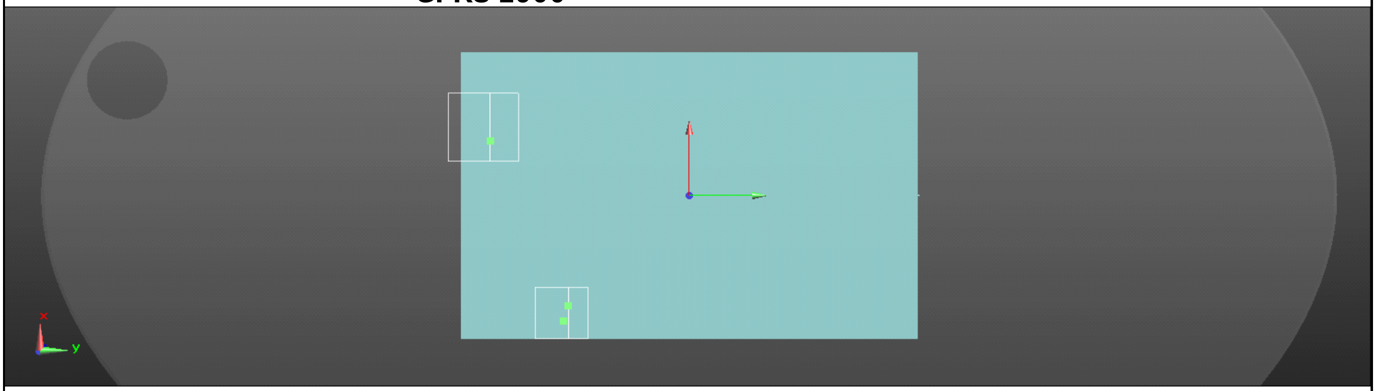
GPRS 1900 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. GPRS1900	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR GPRS1900 & WLAN Main	SPLSR GPRS1900 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
15	GPRS1900 + 5GHz WLAN MIMO	Back side	0	0.912	0.771	1.477	**3.16**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.227	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.093	0.225	0.4	0.718	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.373	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.087	0.4	0.4	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.317	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR GPRS1900 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
GPRS1900 CH 661	Back side	0.912	2.56	-9.03	-0.19	1.683	85.1	0.026	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

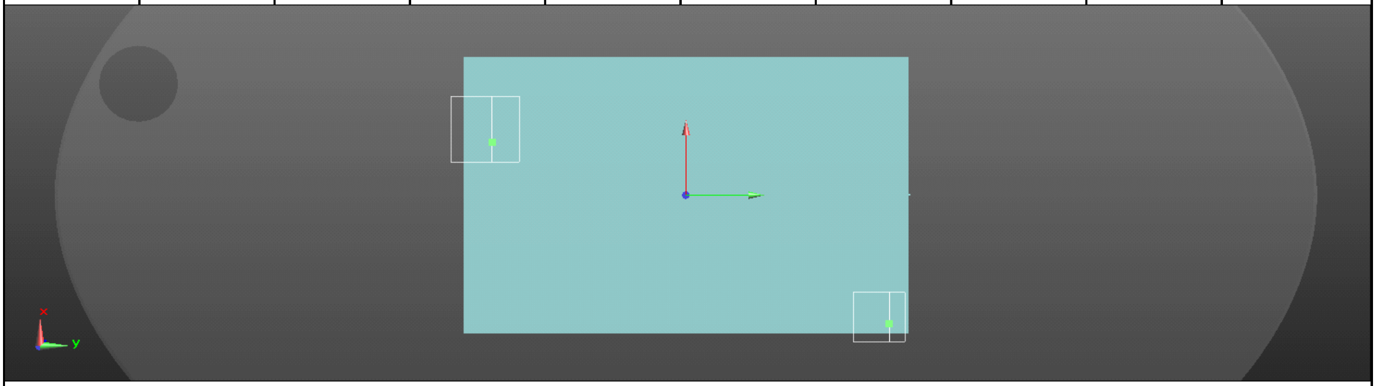
GPRS 1900



WLAN Main

SPLSR GPRS1900 & WLAN Aux

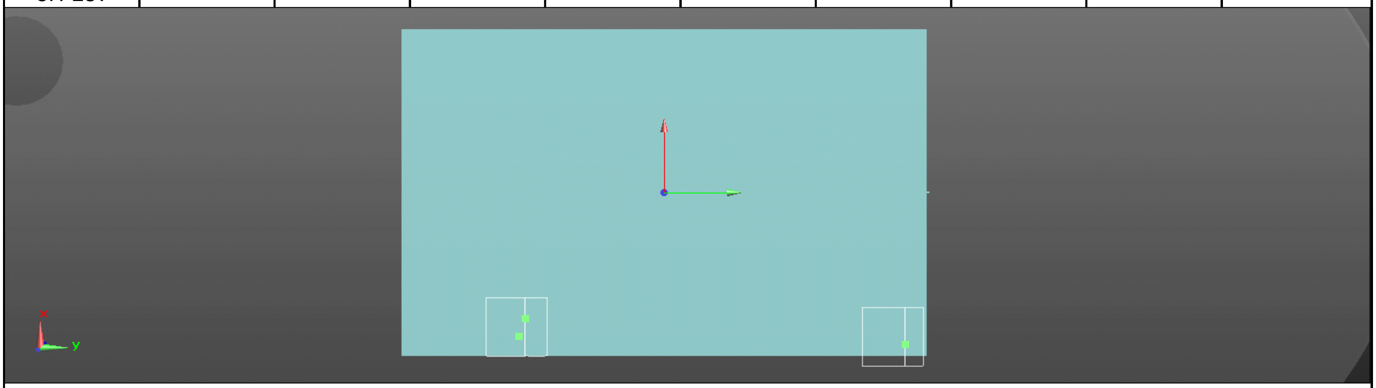
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
GPRS1900 CH 661	Back side	0.912	2.56	-9.03	-0.19	2.389	204.9	0.018	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



GPRS 1900 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

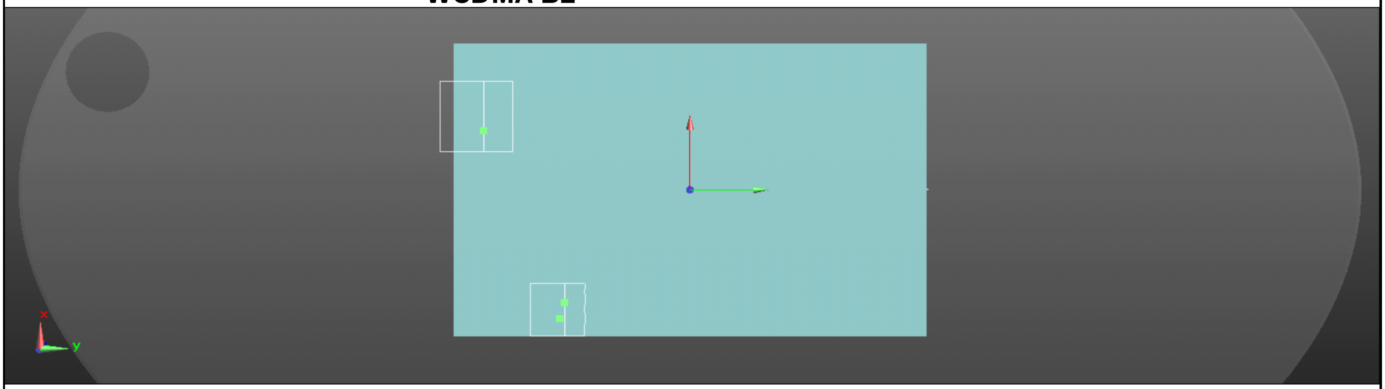
WCDMA Band II + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WCDMA B2	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B2 & WLAN Main	SPLSR WCDMA B2 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
16	WCDMA B2 + 5GHz WLAN MIMO	Back side	0	1.007	0.771	1.477	**3.255**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.358	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.065	0.225	0.4	0.69	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.517	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.068	0.4	0.4	0.868	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.384	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR WCDMA B2 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B2 CH 9262	Back side	1.007	2.71	-9.03	-0.23	1.778	86.5	0.027	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

WCDMA B2



WLAN Main

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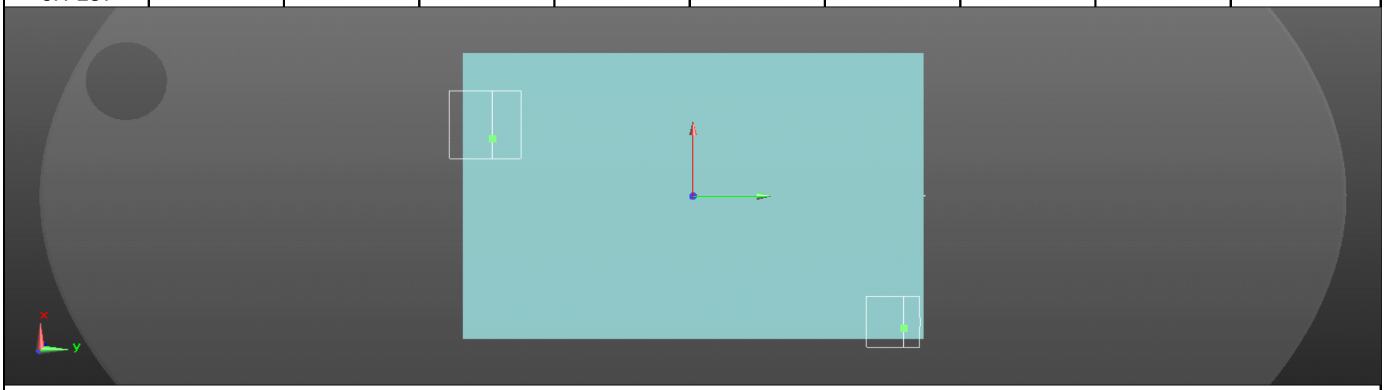
SPLSR WCDMA B2 & WLAN Aux

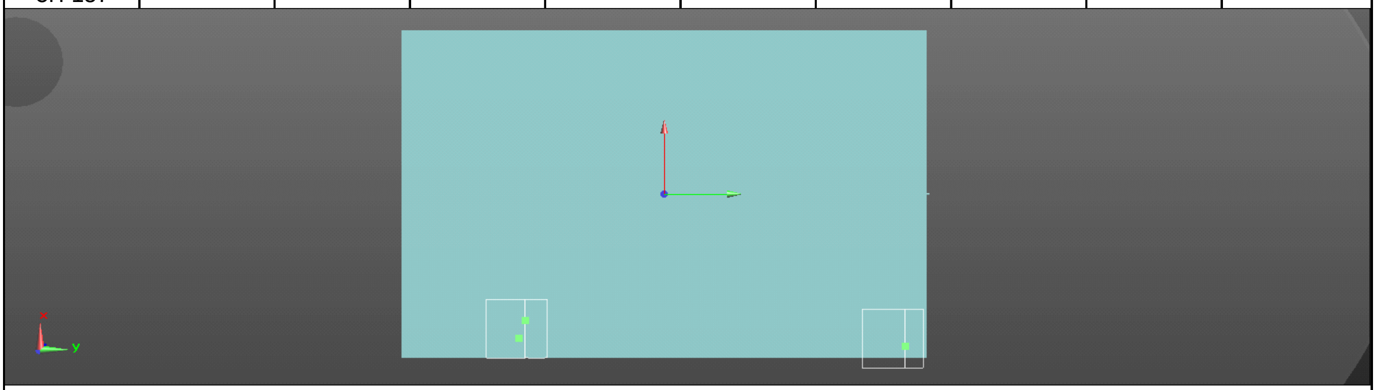
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B2 CH 9262	Back side	1.007	2.71	-9.03	-0.23	2.484	205.5	0.019	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WCDMA B2 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

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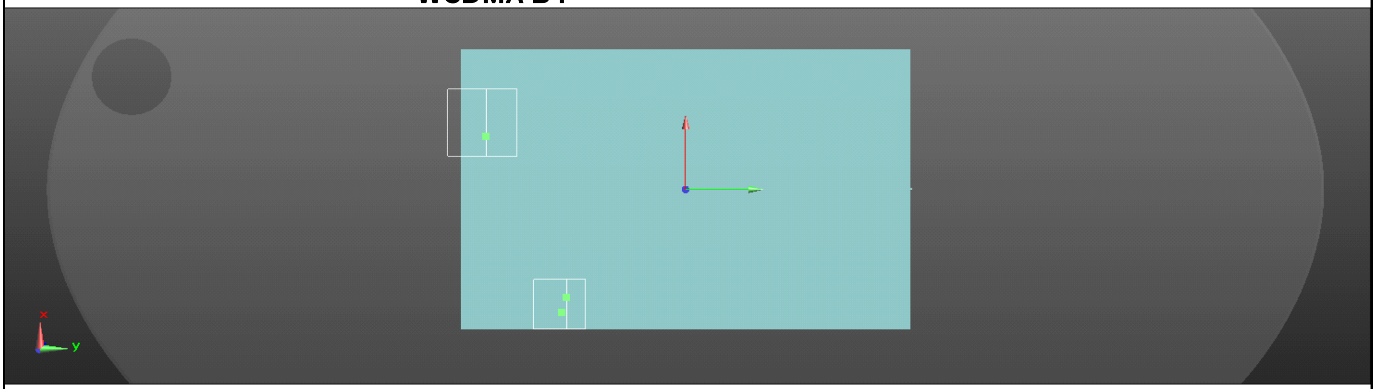
WCDMA Band IV + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WCDMA B4	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B4 & WLAN Main	SPLSR WCDMA B4 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
17	WCDMA B4 + 5GHz WLAN MIMO	Back side	0	1.08	0.771	1.477	**3.328**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.215	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.116	0.225	0.4	0.741	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.478	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.135	0.4	0.4	0.935	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.461	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR WCDMA B4 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B4 CH 1513	Back side	1.08	2.56	-9.19	-0.26	1.851	85.8	0.029	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

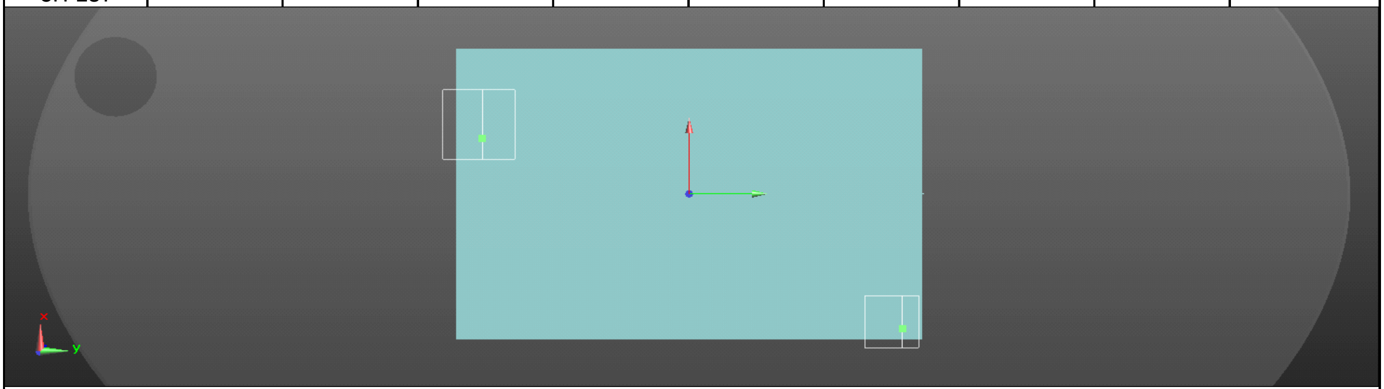
WCDMA B4



WLAN Main

SPLSR WCDMA B4 & WLAN Aux

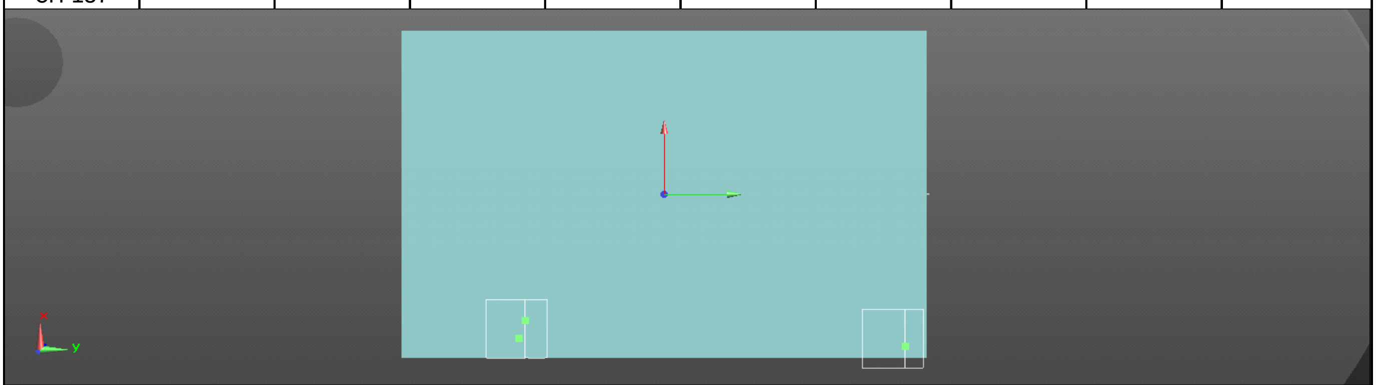
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B4 CH 1513	Back side	1.08	2.56	-9.19	-0.26	2.557	206.3	0.020	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WCDMA B4 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

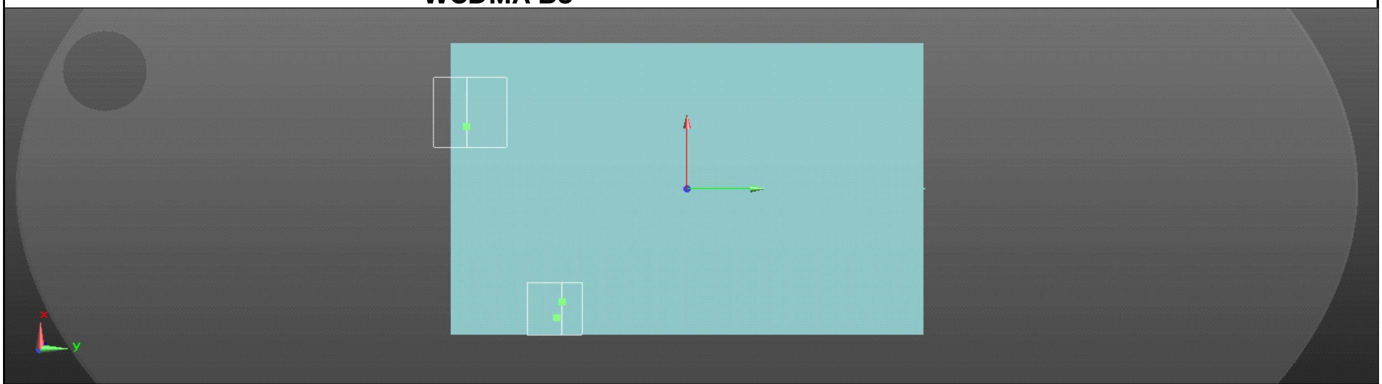
WCDMA Band V + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WCDMA B5	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B5 & WLAN Main	SPLSR WCDMA B5 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
18	WCDMA B5 + 5GHz WLAN MIMO	Back side	0	1.197	0.771	1.477	**3.445**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.183	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.243	0.225	0.4	0.868	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.159	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.265	0.4	0.4	1.065	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.772	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR WCDMA B5 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B5 CH 4233	Back side	1.197	2.86	-9.66	-0.3	1.968	90.6	0.030	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

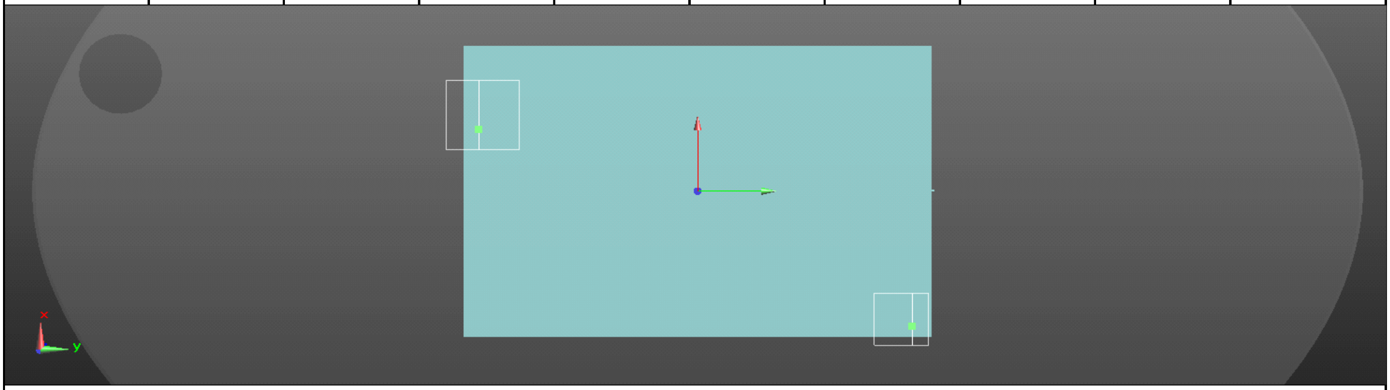
WCDMA B5



WLAN Main

SPLSR WCDMA B5 & WLAN Aux

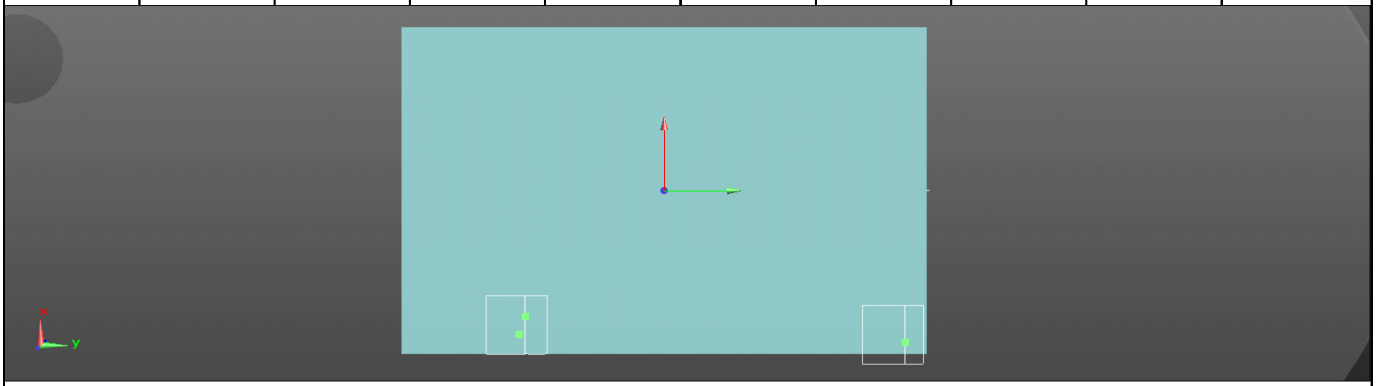
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B5 CH 4233	Back side	1.197	2.86	-9.66	-0.3	2.674	211.9	0.021	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WCDMA B5 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

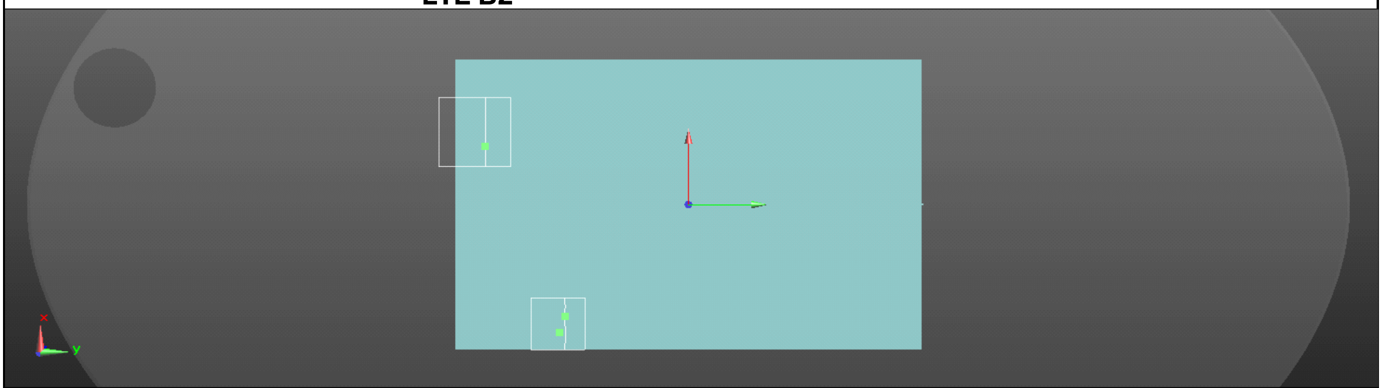
LTE FDD Band II + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B2	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B2 & WLAN Main	SPLSR LTE B2 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
19	LTE B2 + 5GHz WLAN MIMO	Back side	0	0.81	0.771	1.477	**3.058**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.282	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.055	0.225	0.4	0.68	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.431	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.06	0.4	0.4	0.86	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.378	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 2 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B2 CH 18700	Back side	0.81	2.71	-9.02	-0.2	1.581	86.4	0.023	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

LTE B2



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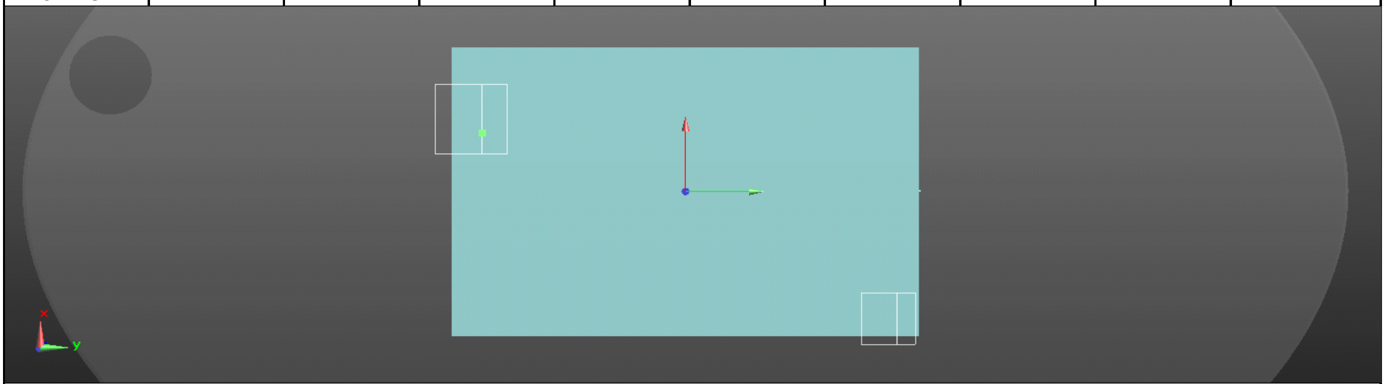
SPLSR LTE Band 2 & WLAN Aux

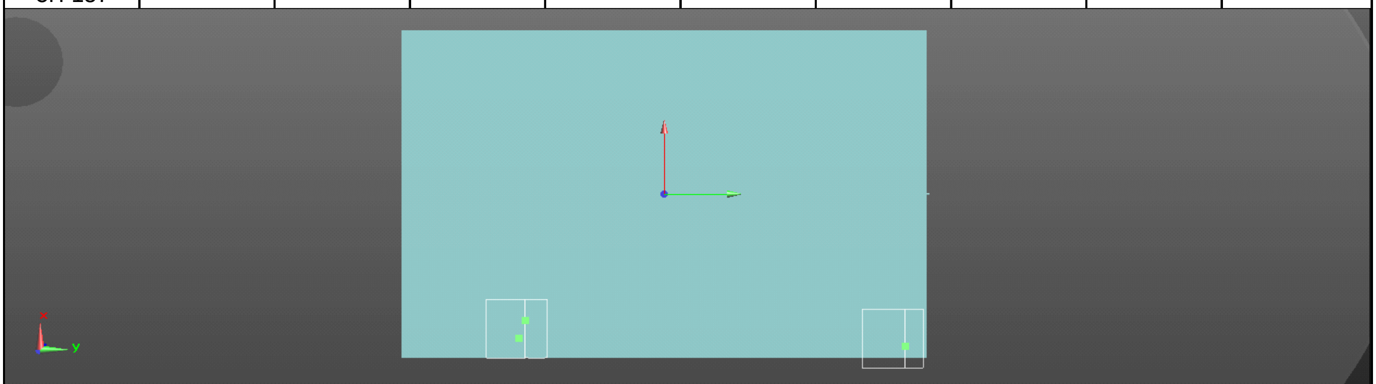
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B2 CH 18700	Back side	0.81	2.71	-9.02	-0.2	2.287	205.4	0.017	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B2 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

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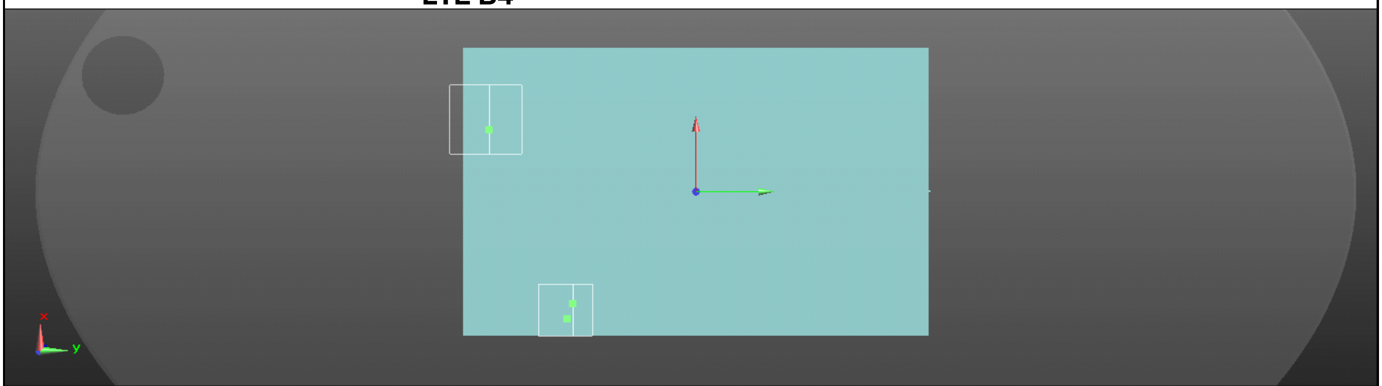
LTE FDD Band IV + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B4	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B4 & WLAN Main	SPLSR LTE B4 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
20	LTE B4 + 5GHz WLAN MIMO	Back side	0	1.34	0.771	1.477	**3.588**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.153	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.12	0.225	0.4	0.745	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.351	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.142	0.4	0.4	0.942	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.365	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 4 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B4 CH 20300	Back side	1.34	2.87	-9.19	-0.2	2.111	88.6	0.035	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

LTE B4



WLAN Main

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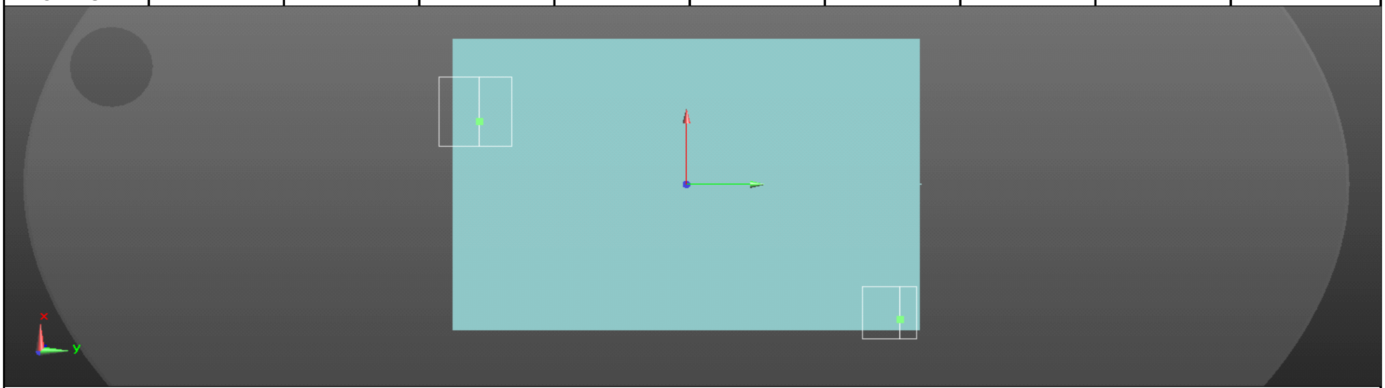
SPLSR LTE Band 4 & WLAN Aux

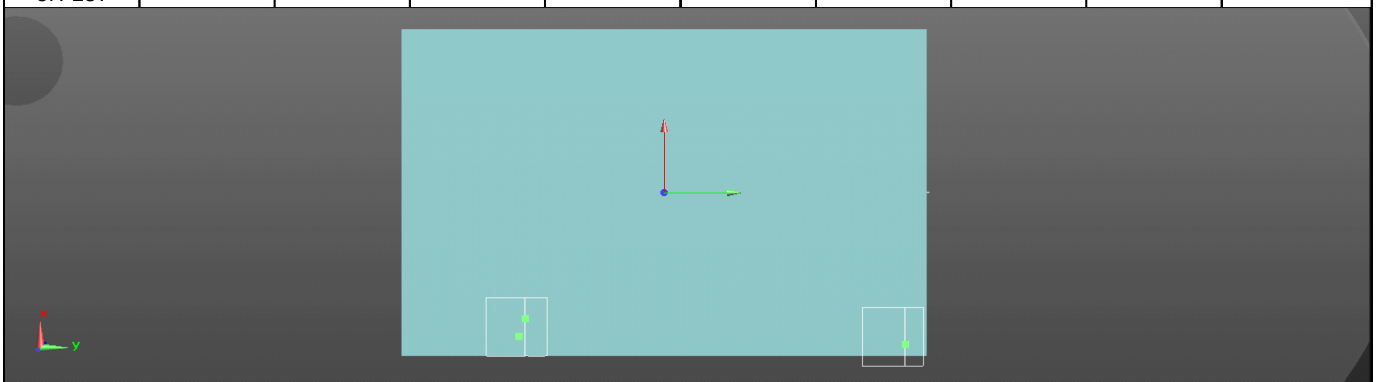
Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B4 CH 20300	Back side	1.34	2.87	-9.19	-0.2	2.817	207.7	0.023	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B4 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

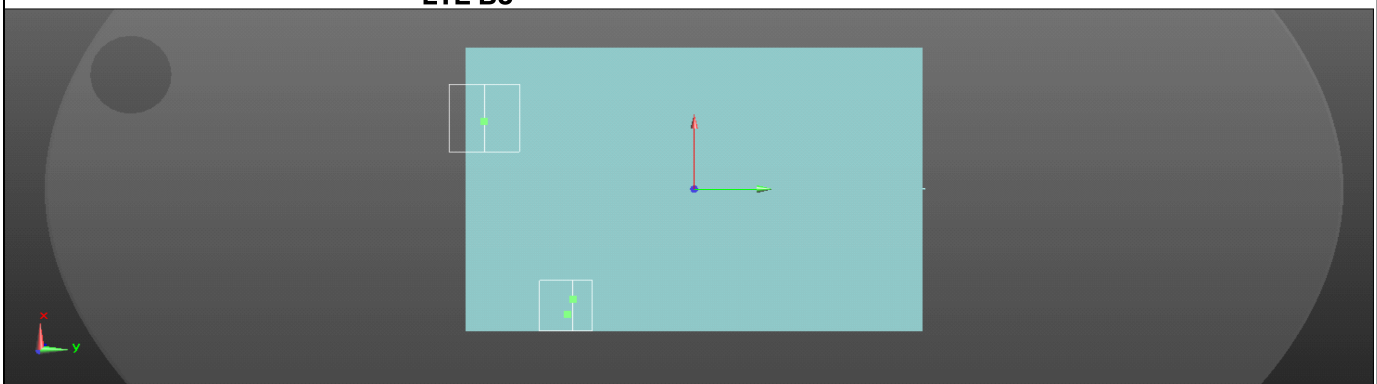
LTE FDD Band V + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B5	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B5 & WLAN Main	SPLSR LTE B5 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
21	LTE B5 + 5GHz WLAN MIMO	Back side	0	1.42	0.771	1.477	**3.668**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.162	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.2	0.225	0.4	0.825	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.952	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.324	0.4	0.4	1.124	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.535	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 5 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B5 CH 20450	Back side	1.42	3.19	-9.5	-0.27	2.191	92.8	0.035	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

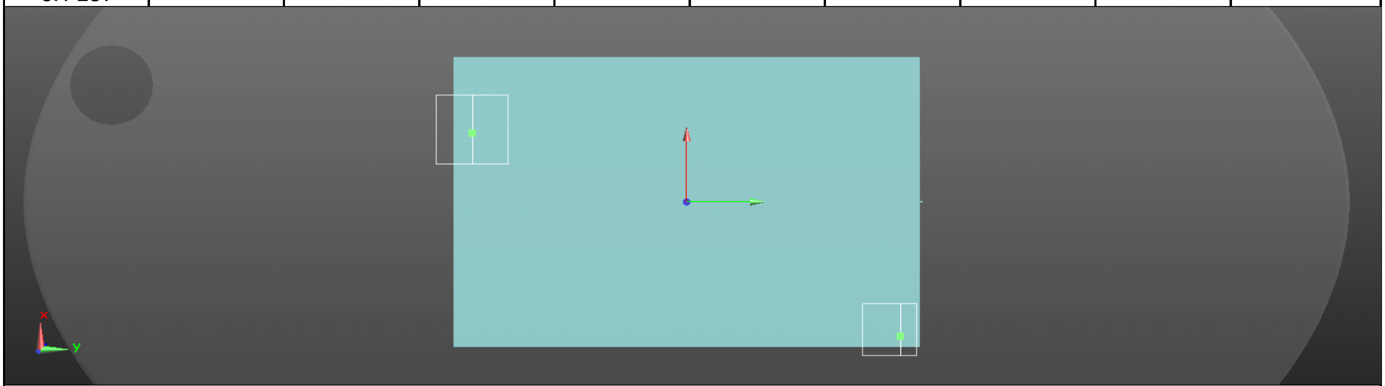
LTE B5



WLAN Main

SPLSR LTE Band 5 & WLAN Aux

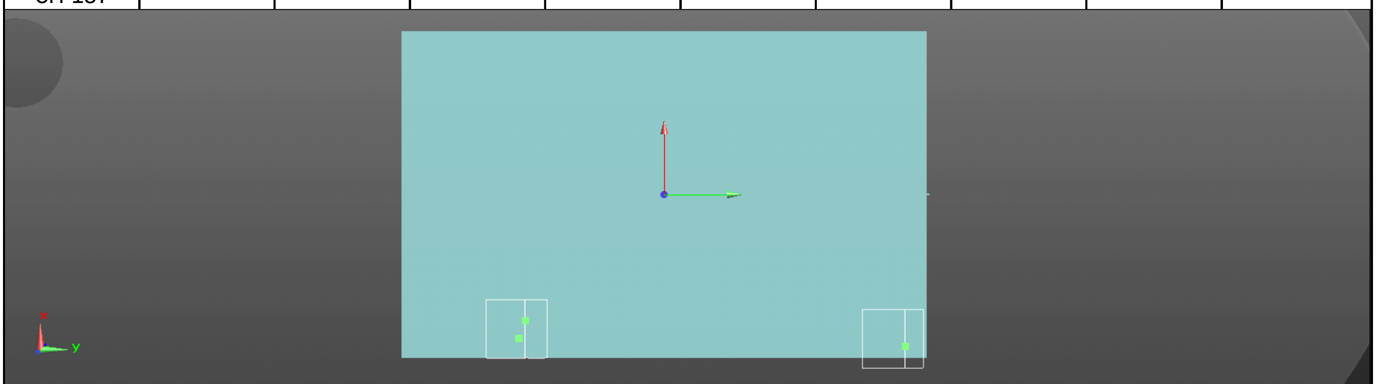
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B5 CH 20450	Back side	1.42	3.19	-9.5	-0.27	2.897	211.8	0.023	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B5 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

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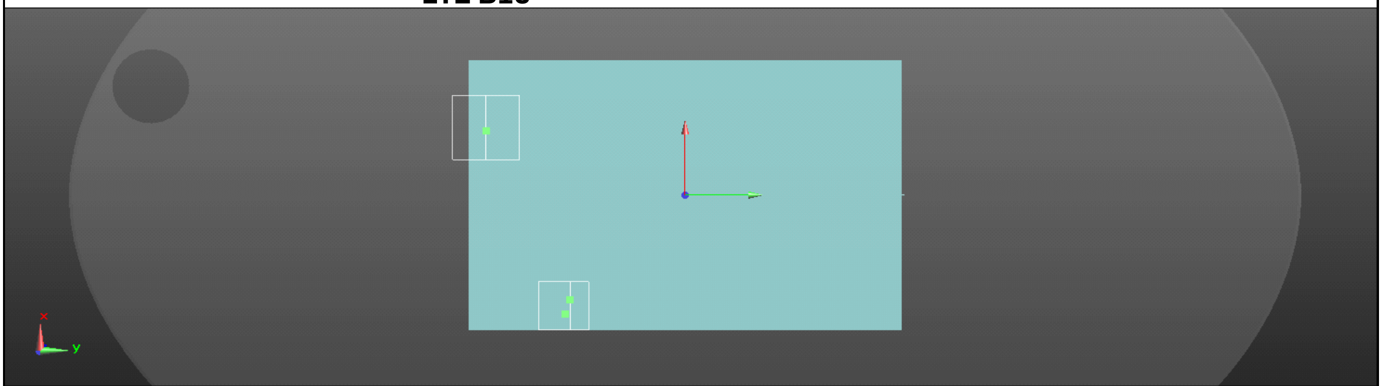
LTE FDD Band XIII + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B13	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B13 & WLAN Main	SPLSR LTE B13 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
22	LTE B13 + 5GHz WLAN MIMO	Back side	0	1.404	0.771	1.477	**3.652**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.1	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.207	0.225	0.4	0.832	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.727	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.278	0.4	0.4	1.078	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.367	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 13 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B13 CH 23230	Back side	1.404	3.19	-9.51	-0.27	2.175	92.8	0.035	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

LTE B13



WLAN Main

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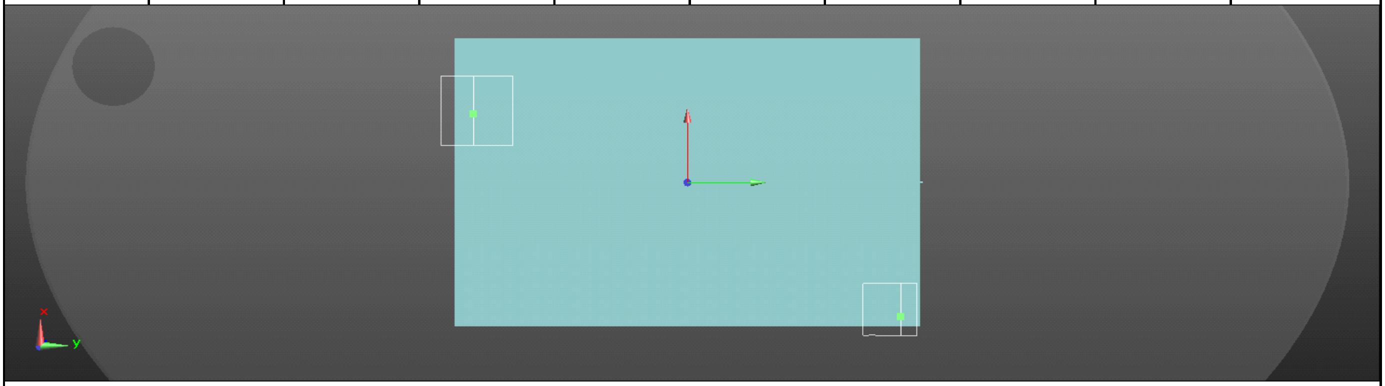
SPLSR LTE Band 13 & WLAN Aux

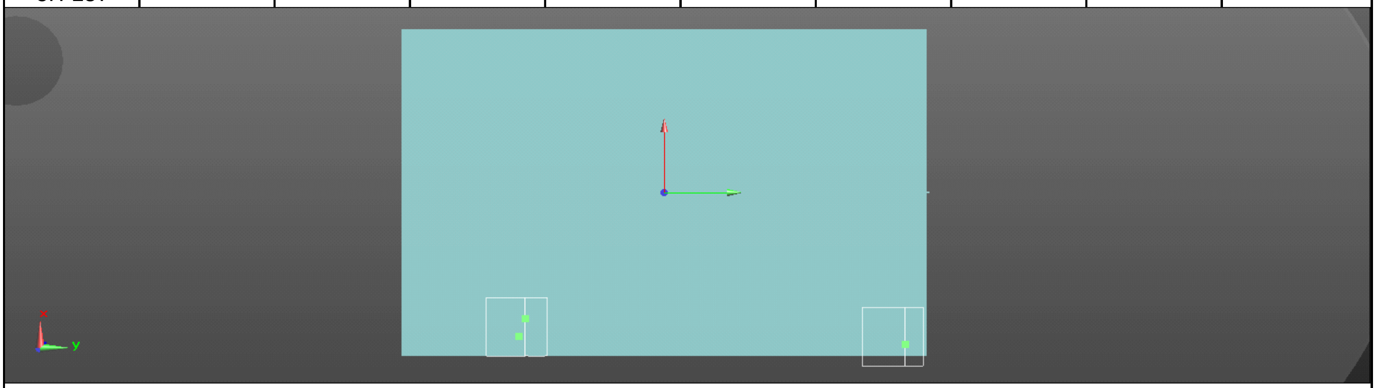
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B13 CH 23230	Back side	1.404	3.19	-9.51	-0.27	2.881	211.9	0.023	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B13 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

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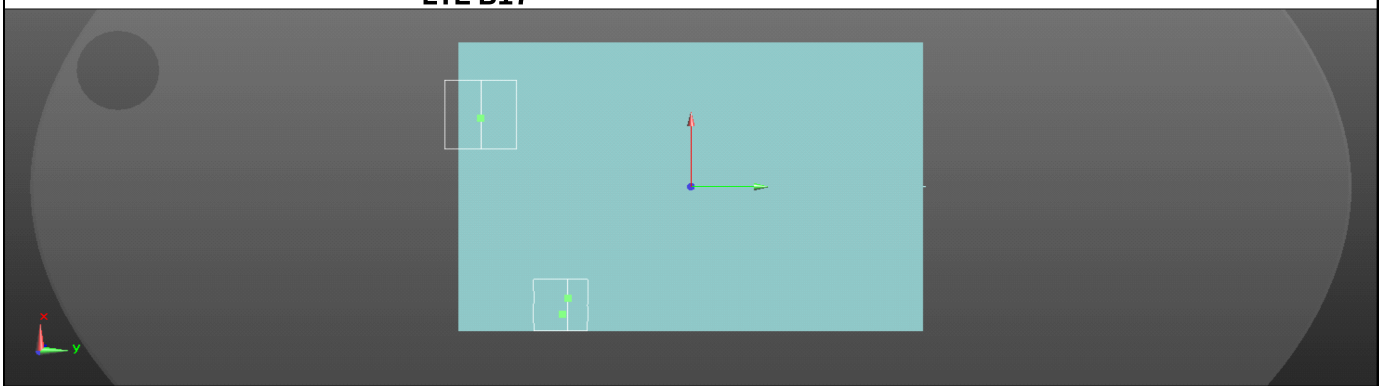
LTE FDD Band XVII + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B17	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B17 & WLAN Main	SPLSR LTE B17 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
23	LTE B17 + 5GHz WLAN MIMO	Back side	0	1.035	0.771	1.477	**3.283**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.042	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.188	0.225	0.4	0.813	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.462	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.175	0.4	0.4	0.975	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.135	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 17 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B17 CH 23800	Back side	1.035	3.19	-9.35	-0.27	1.806	92.2	0.026	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

LTE B17



WLAN Main

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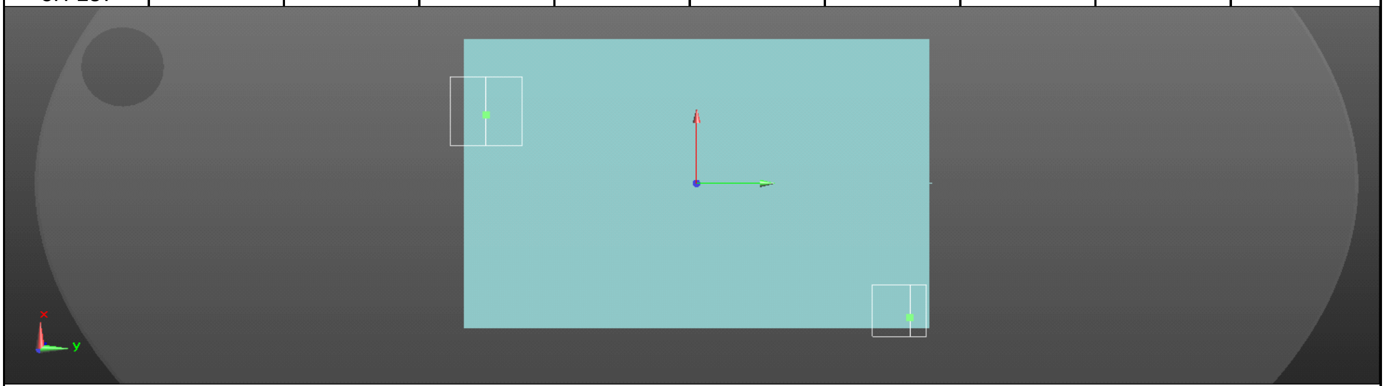
SPLSR LTE Band 17 & WLAN Aux

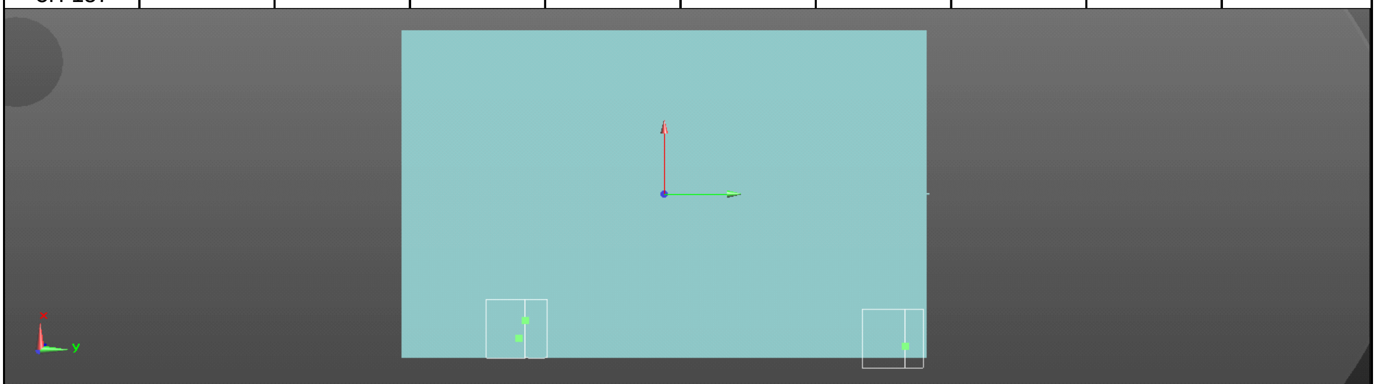
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B17 CH 23800	Back side	1.035	3.19	-9.35	-0.27	2.512	210.5	0.019	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B17 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

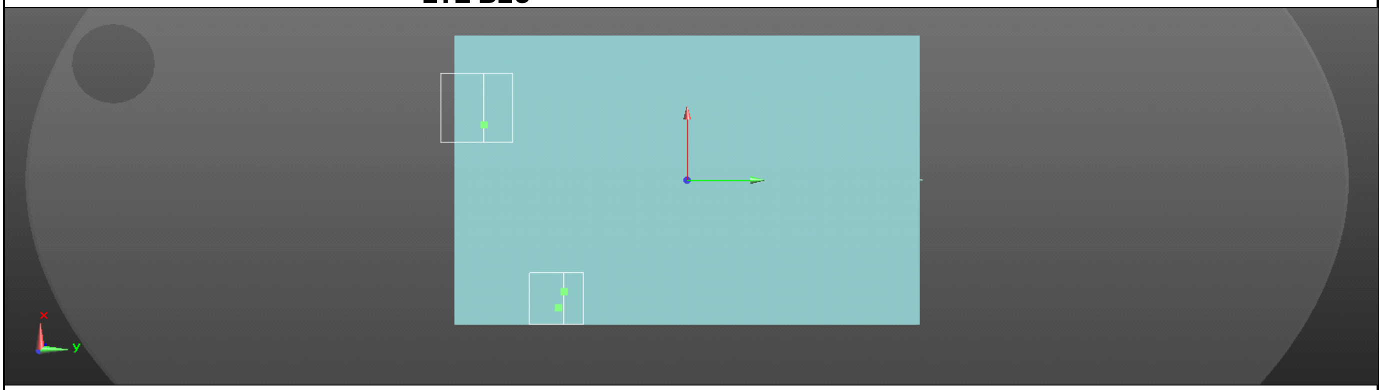
LTE FDD Band XXV + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. LTE B25	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR LTE B25 & WLAN Main	SPLSR LTE B25 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
24	LTE B25 + 5GHz WLAN MIMO	Back side	0	0.97	0.771	1.477	**3.218**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.235	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.087	0.225	0.4	0.712	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.35	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.107	0.4	0.4	0.907	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.351	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 25 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B25 CH 26140	Back side	0.97	2.55	-9.03	-0.22	1.741	85	0.027	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

LTE B25



WLAN Main

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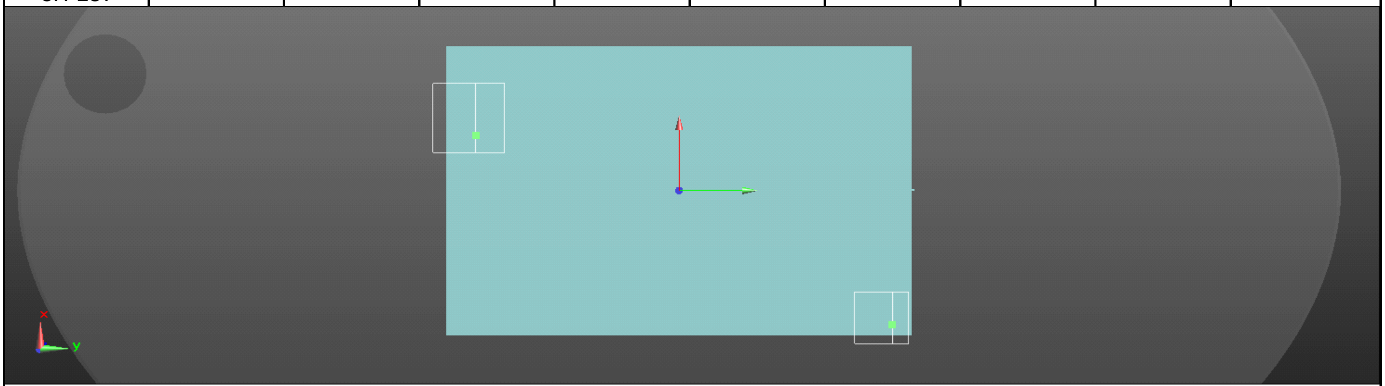
SPLSR LTE Band 25 & WLAN Aux

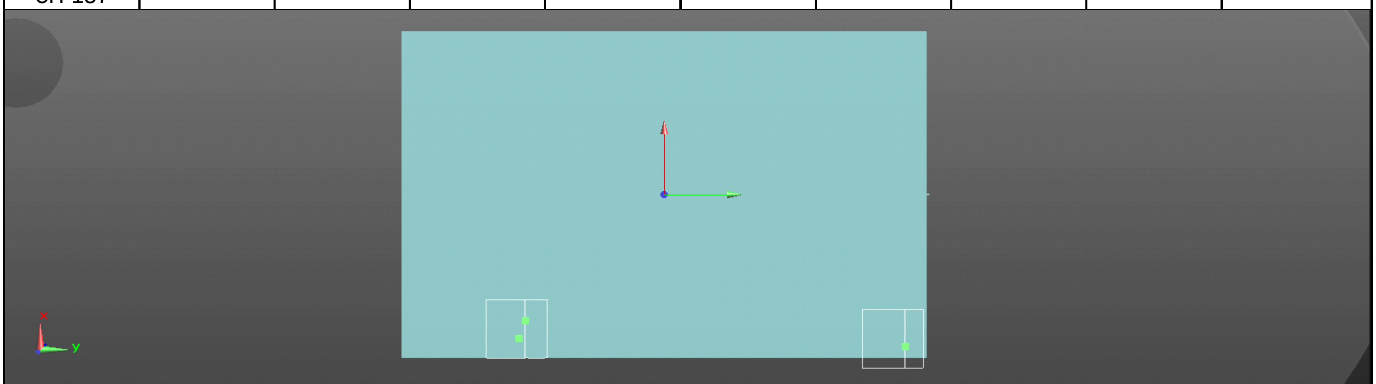
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B25 CH 26140	Back side	0.97	2.55	-9.03	-0.22	2.447	204.8	0.019	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B25 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

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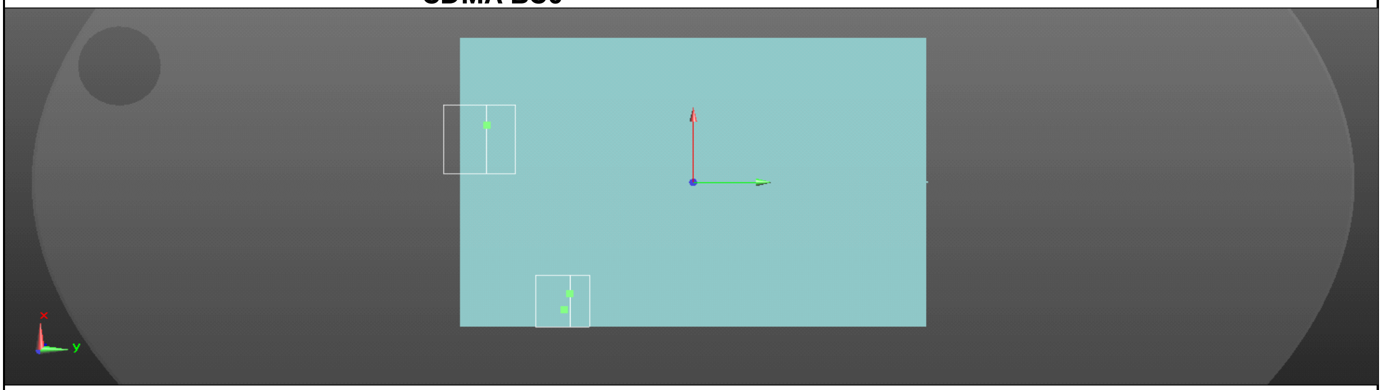
CDMA / EVDO BC0 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. BC0	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR BC0 & WLAN Main	SPLSR BC0 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
25	CDMA / EVDO BC0 + 5GHz WLAN MIMO	Back side	0	1.379	0.771	1.477	**3.627**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.149	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.289	0.225	0.4	0.914	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.21	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.309	0.4	0.4	1.109	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.632	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR CDMA / EVDO BC0 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC0 CH 777	Back side	1.379	2.64	-9.18	-0.34	2.15	86.5	0.036	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

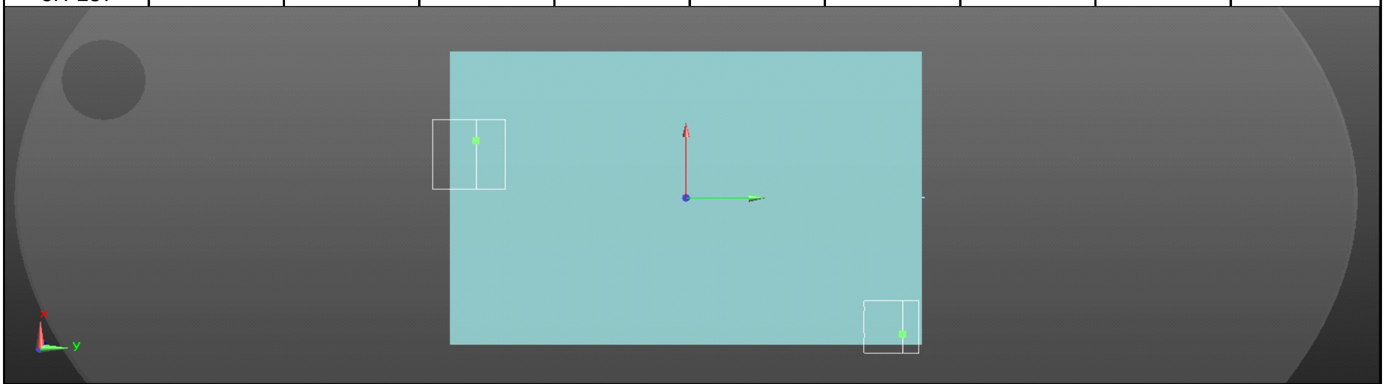
CDMA BC0



WLAN Main

SPLSR CDMA / EVDO BC0 & WLAN Aux

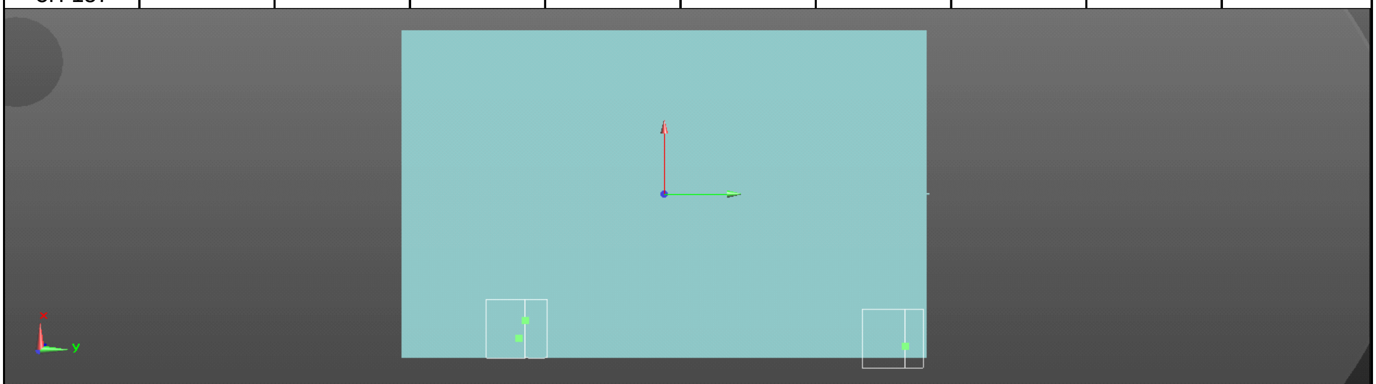
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC0 CH 777	Back side	1.379	2.64	-9.18	-0.34	2.856	206.6	0.023	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



CDMA BC0 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

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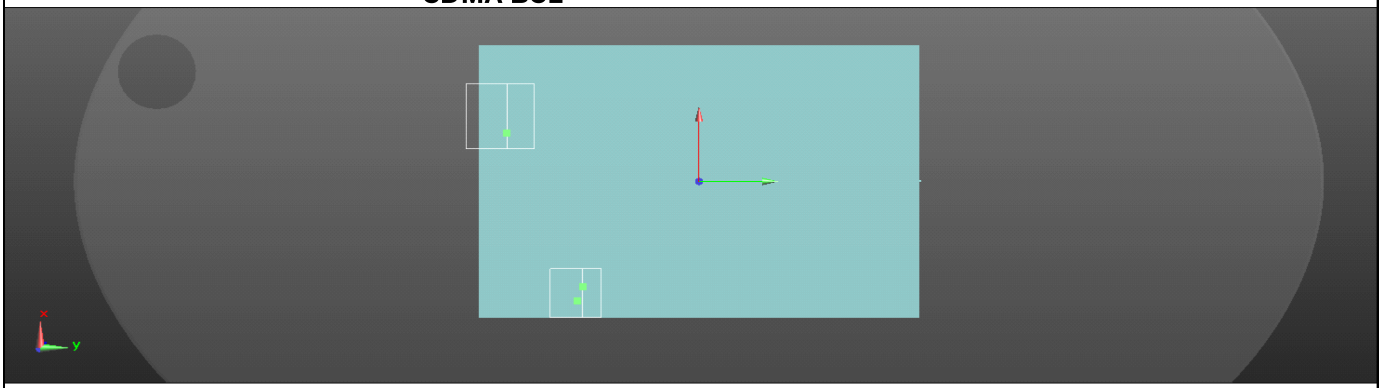
CDMA / EVDO BC1 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. BC1	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR BC1 & WLAN Main	SPLSR BC1 & WLAN Aux	SPLSR WLAN Main & WLAN Aux
26	CDMA / EVDO BC1 + 5GHz WLAN MIMO	Back side	0	1.021	0.771	1.477	**3.269**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.297	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.082	0.225	0.4	0.707	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.56	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.303	0.27	0.973	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.083	0.4	0.4	0.883	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.48	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR CDMA / EVDO BC1 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC1 CH 25	Back side	1.021	2.4	-9.03	-0.25	1.792	83.7	0.029	SPLSR<0.04, Not required
802.11a CH 140		0.771	-5.18	-5.48	-0.23				

CDMA BC1



WLAN Main

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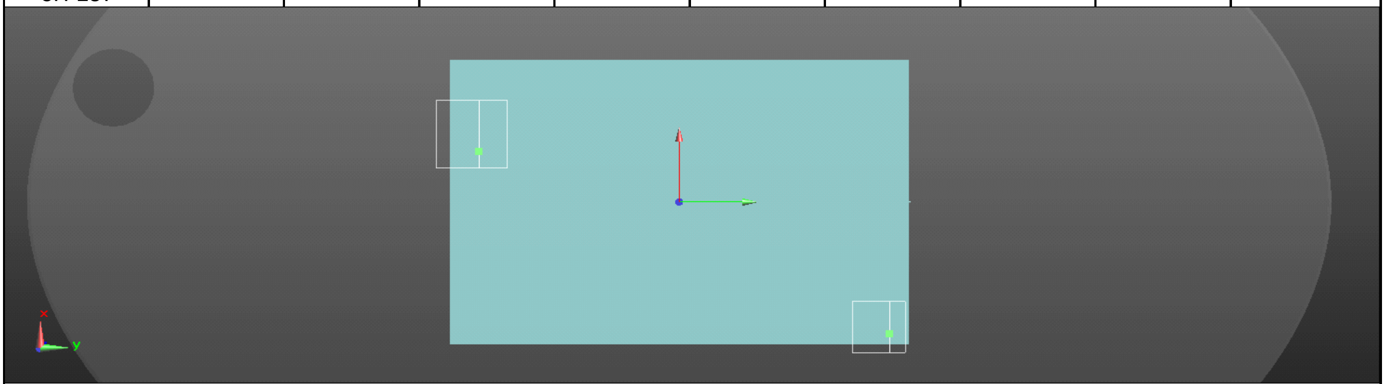
SPLSR CDMA / EVDO BC1 & WLAN Aux

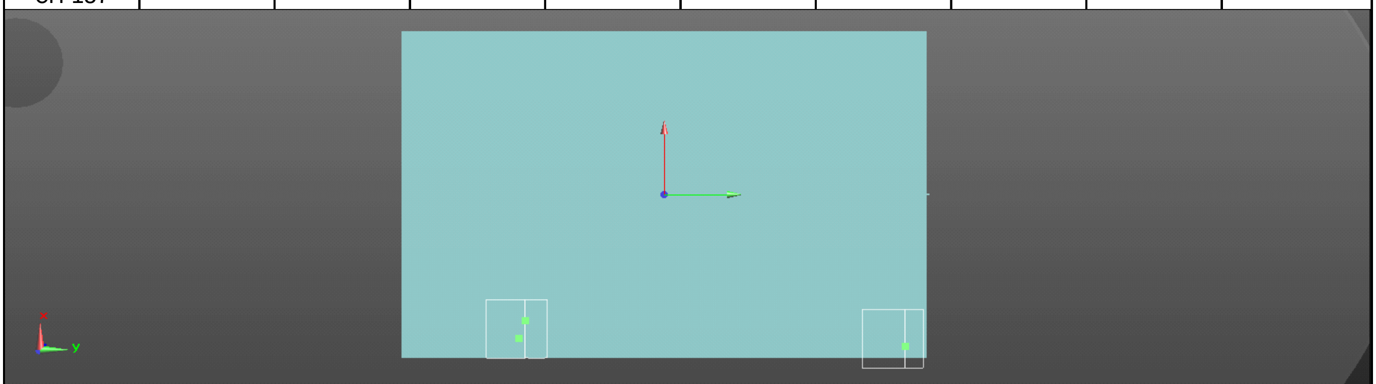
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC1 CH 25	Back side	1.021	2.4	-9.03	-0.25	2.498	204.2	0.019	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



CDMA BC1 **WLAN Aux**

SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
802.11a CH 140	Back side	0.771	-5.18	-5.48	-0.23	2.248	150	0.022	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WLAN Main **WLAN Aux**

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GPRS 850 + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. GPRS850	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR GPRS850 & BT	SPLSR GPRS850 & WLAN Aux	SPLSR BT & WLAN Aux
27	GPRS850 + BT + 2.4GHz WLAN Aux	Back side	0	1.201	0.116	1.069	**2.386**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.207	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.227	0.023	0.4	0.65	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.414	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.246	0.4	0.4	1.046	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.571	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR GPRS850 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
GPRS850 CH 190	Back side	1.201	1.317	66.11	0.023	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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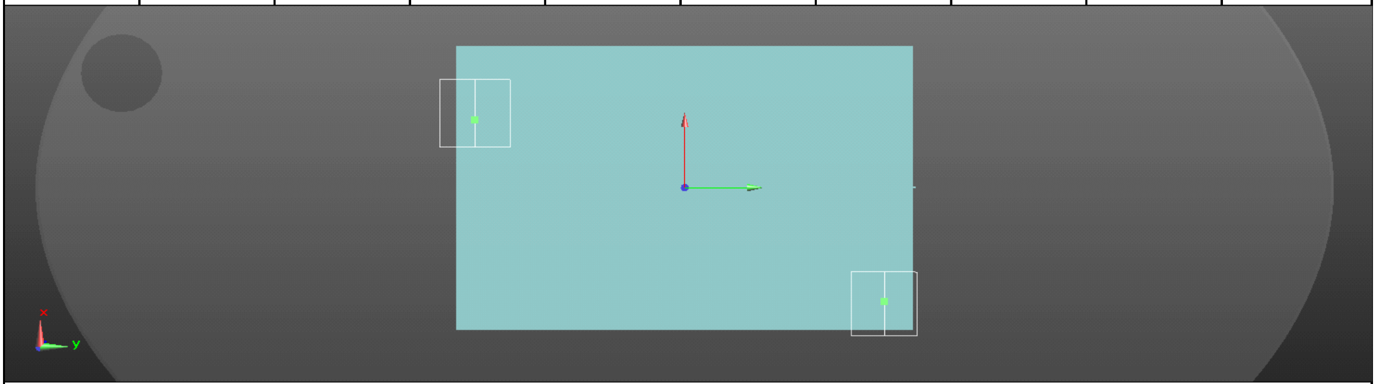
SPLSR GPRS850 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
GPRS850 CH 190	Back side	1.201	3.18	-9.5	-0.25	2.27	204.2	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



GPRS 850 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

GPRS 1900 + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. GPRS1900	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR GPRS1900 & BT	SPLSR GPRS1900 & WLAN Aux	SPLSR BT & WLAN Aux
28	GPRS1900 + BT + 2.4GHz WLAN Aux	Back side	0	0.912	0.116	1.069	**2.097**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.227	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.093	0.023	0.4	0.516	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.373	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.087	0.4	0.4	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.317	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

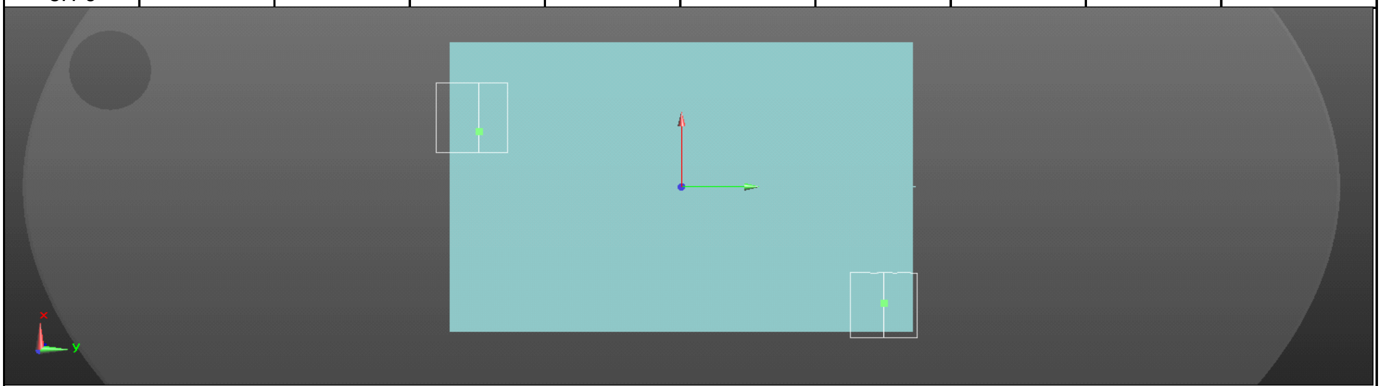
SPLSR GPRS1900 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
GPRS1900 CH 661	Back side	0.912	1.028	66.11	0.016	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR GPRS1900 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
GPRS1900 CH 661	Back side	0.912	2.56	-9.03	-0.19	1.981	197.4	0.014	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



GPRS 1900 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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WCDMA Band II + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. WCDMA B2	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B2 & BT	SPLSR WCDMA B2 & WLAN Aux	SPLSR BT & WLAN Aux
29	WCDMA B2 + BT + 2.4GHz WLAN Aux	Back side	0	1.007	0.116	1.069	**2.192**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.358	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.065	0.023	0.4	0.488	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.517	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.068	0.4	0.4	0.868	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.384	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

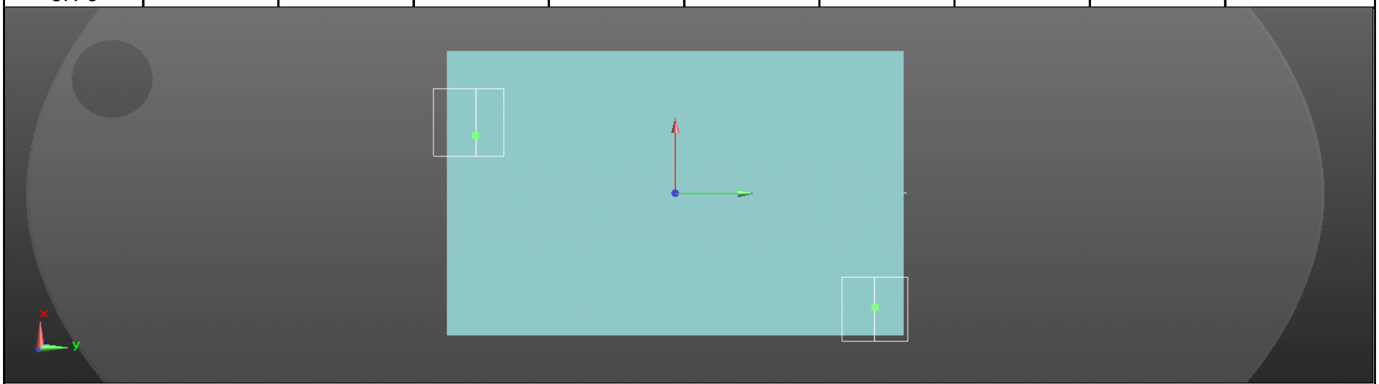
SPLSR WCDMA B2 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B2 CH 9262	Back side	1.007	1.123	66.11	0.018	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR WCDMA B2 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B2 CH 9262	Back side	1.007	2.71	-9.03	-0.23	2.076	198	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WCDMA B2 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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WCDMA Band IV + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. WCDMA B4	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B4 & BT	SPLSR WCDMA B4 & WLAN Aux	SPLSR BT & WLAN Aux
30	WCDMA B4 + BT + 2.4GHz WLAN Aux	Back side	0	1.08	0.116	1.069	**2.265**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.215	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.116	0.023	0.4	0.539	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.478	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.135	0.4	0.4	0.935	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.461	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

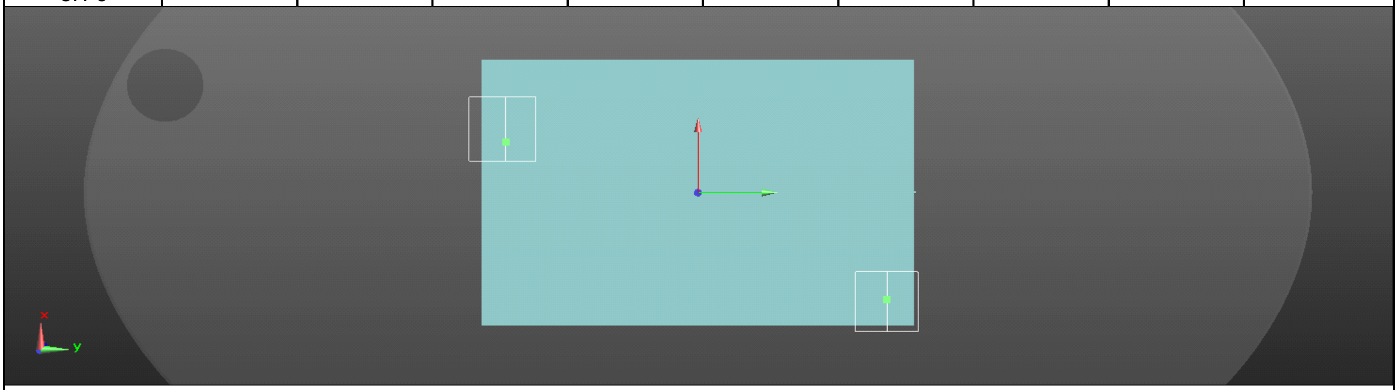
SPLSR WCDMA B4 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B4 CH 1513	Back side	1.08	1.196	66.11	0.020	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR WCDMA B4 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B4 CH 1513	Back side	1.08	2.56	-9.19	-0.26	2.149	198.8	0.016	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WCDMA B4 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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WCDMA Band V + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. WCDMA B5	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B5 & BT	SPLSR WCDMA B5 & WLAN Aux	SPLSR BT & WLAN Aux
31	WCDMA B5 + BT + 2.4GHz WLAN Aux	Back side	0	1.197	0.116	1.069	**2.382**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.183	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.243	0.023	0.4	0.666	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.159	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.265	0.4	0.4	1.065	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.772	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

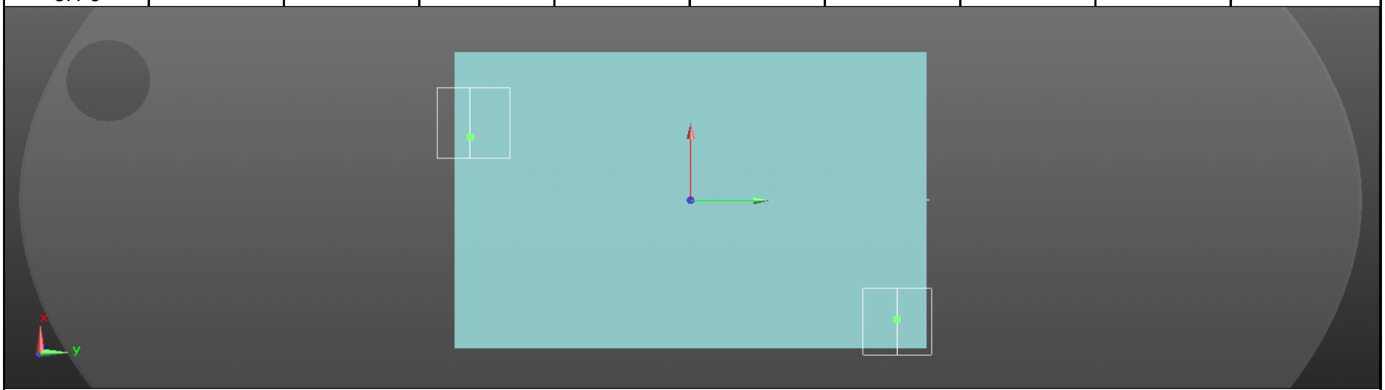
SPLSR WCDMA B5 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B5 CH 4233	Back side	1.197	1.313	66.11	0.023	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR WCDMA B5 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B5 CH 4233	Back side	1.197	2.86	-9.66	-0.3	2.266	204.3	0.017	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



WCDMA B5 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

LTE FDD Band II + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B2	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B2 & BT	SPLSR LTE B2 & WLAN Aux	SPLSR BT & WLAN Aux
32	LTE B2 + BT + 2.4GHz WLAN Aux	Back side	0	0.81	0.116	1.069	**1.995**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.282	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.055	0.023	0.4	0.478	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.431	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.06	0.4	0.4	0.86	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.378	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

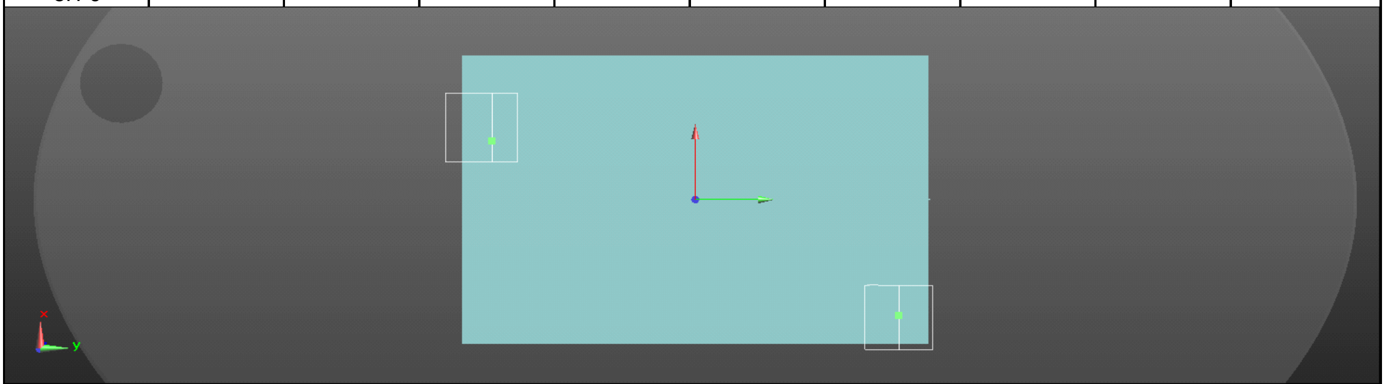
SPLSR LTE Band 2 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B2 CH 18700	Back side	0.81	0.926	66.11	0.013	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR LTE Band 2 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B2 CH 18700	Back side	0.81	2.71	-9.02	-0.2	1.879	197.9	0.013	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B2 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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LTE FDD Band IV + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B4	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B4 & BT	SPLSR LTE B4 & WLAN Aux	SPLSR BT & WLAN Aux
33	LTE B4 + BT + 2.4GHz WLAN Aux	Back side	0	1.34	0.116	1.069	**2.525**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.153	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.12	0.023	0.4	0.543	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.351	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.142	0.4	0.4	0.942	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.365	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

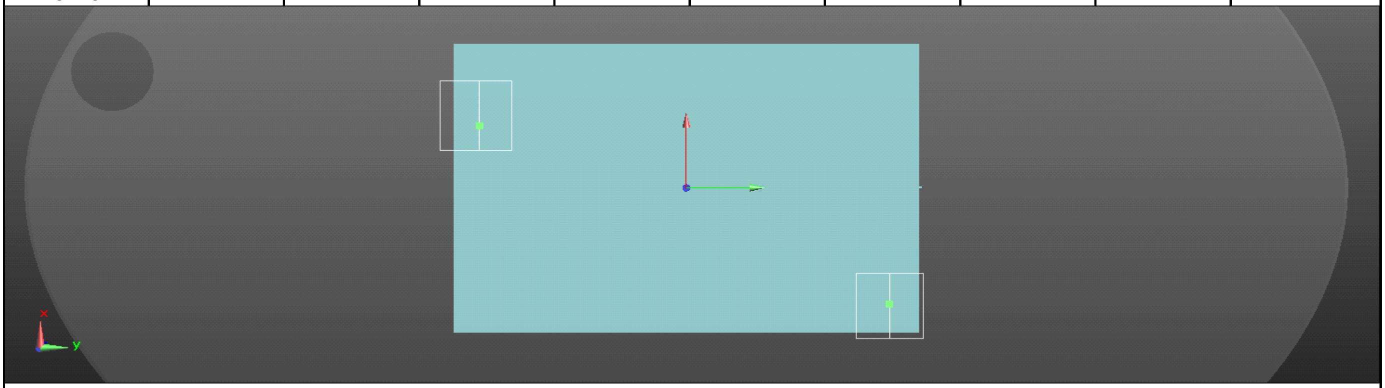
SPLSR LTE Band 4 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B4 CH 20300	Back side	1.34	1.456	66.11	0.027	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR LTE Band 4 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B4 CH 20300	Back side	1.34	2.87	-9.19	-0.2	2.409	200.1	0.019	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B4 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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LTE FDD Band V + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B5	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B5 & BT	SPLSR LTE B5 & WLAN Aux	SPLSR BT & WLAN Aux
34	LTE B5 + BT + 2.4GHz WLAN Aux	Back side	0	1.42	0.116	1.069	**2.605**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.162	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.2	0.023	0.4	0.623	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.952	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.324	0.4	0.4	1.124	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.535	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 5 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B5 CH 20450	Back side	1.42	1.536	66.11	0.029	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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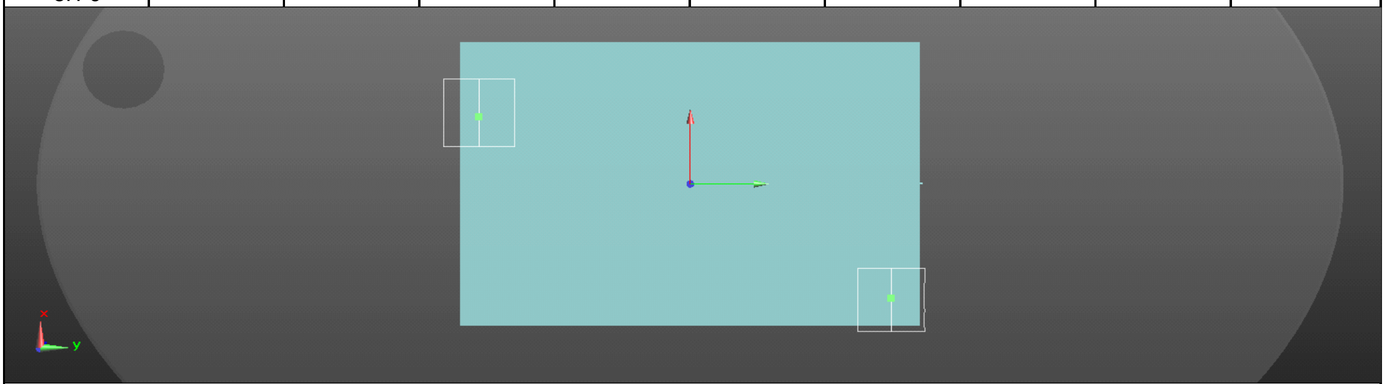
SPLSR LTE Band 5 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B5 CH 20450	Back side	1.42	3.19	-9.5	-0.27	2.489	204.2	0.019	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B5 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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LTE FDD Band XIII + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B13	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B13 & BT	SPLSR LTE B13 & WLAN Aux	SPLSR BT & WLAN Aux
35	LTE B13 + BT + 2.4GHz WLAN Aux	Back side	0	1.404	0.116	1.069	**2.589**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.1	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.207	0.023	0.4	0.63	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.727	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.278	0.4	0.4	1.078	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.367	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

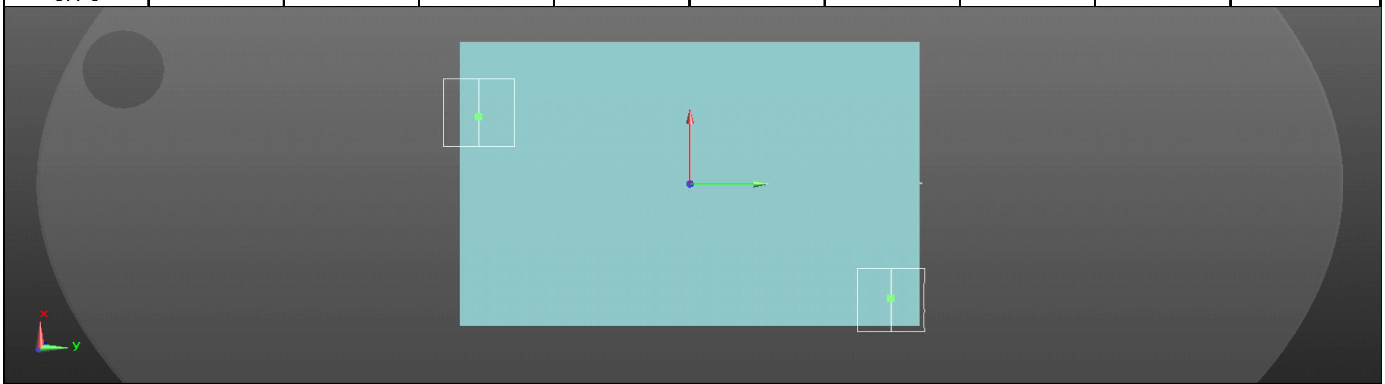
SPLSR LTE Band 13 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B13 CH 23230	Back side	1.404	1.52	66.11	0.028	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR LTE Band 13 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B5 CH 20450	Back side	1.42	3.19	-9.5	-0.27	2.489	204.2	0.019	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B5 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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LTE FDD Band XVII + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B17	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B17 & BT	SPLSR LTE B17 & WLAN Aux	SPLSR BT & WLAN Aux
36	LTE B17 + BT + 2.4GHz WLAN Aux	Back side	0	1.035	0.116	1.069	**2.22**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.042	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.188	0.023	0.4	0.611	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.462	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.175	0.4	0.4	0.975	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.135	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

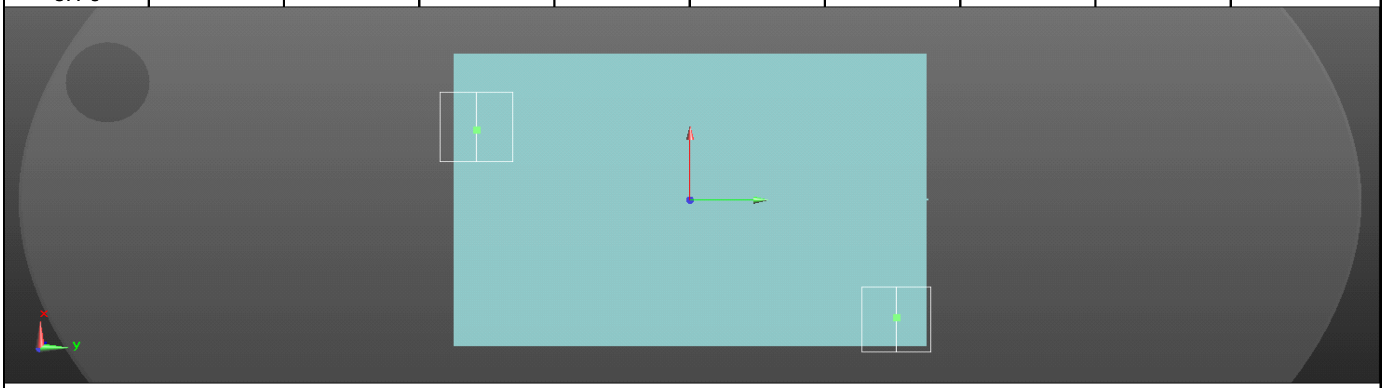
SPLSR LTE Band 17 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B17 CH 23800	Back side	1.035	1.151	66.11	0.019	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR LTE Band 17 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B17 CH 23800	Back side	1.035	3.19	-9.35	-0.27	2.104	202.9	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B17 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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LTE FDD Band XXV + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B25	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B25 & BT	SPLSR LTE B25 & WLAN Aux	SPLSR BT & WLAN Aux
37	LTE B25 + BT + 2.4GHz WLAN Aux	Back side	0	0.97	0.116	1.069	**2.155**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.235	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.087	0.023	0.4	0.51	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.35	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.107	0.4	0.4	0.907	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.351	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 25 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B25 CH 26140	Back side	0.97	1.086	66.11	0.017	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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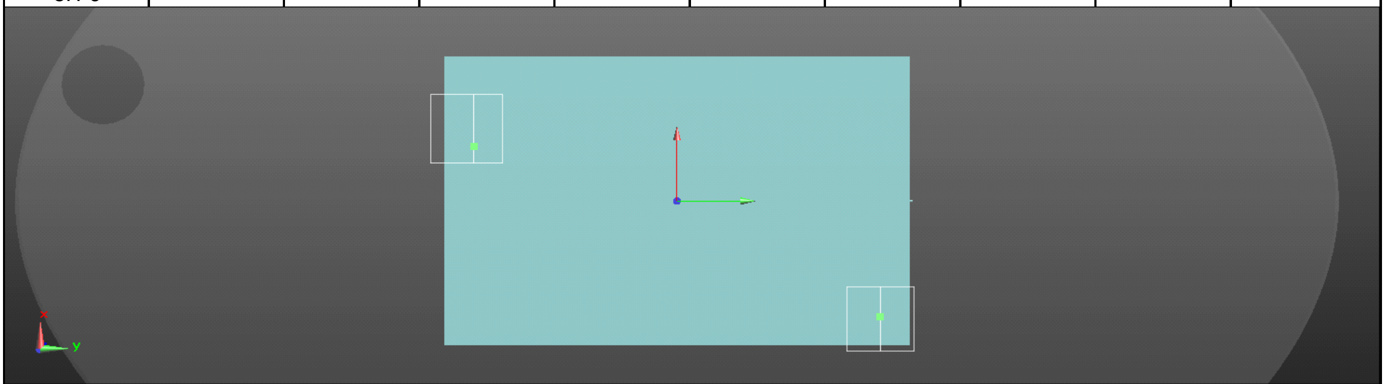
SPLSR LTE Band 25 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm) x	y	z	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B25 CH 26140	Back side	0.97	2.55	-9.03	-0.22	2.039	197.3	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



LTE B25 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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CDMA / EVDO BC0 + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. BC0	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR BC0 & BT	SPLSR BC0 & WLAN Aux	SPLSR BT & WLAN Aux
38	CDMA / EVDO BC0 + BT + 2.4GHz WLAN Aux	Back side	0	1.379	0.116	1.069	**2.564**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.149	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.289	0.023	0.4	0.712	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.21	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.309	0.4	0.4	1.109	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.632	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR CDMA / EVDO BC0 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BC0 CH 777	Back side	1.379	1.495	66.11	0.028	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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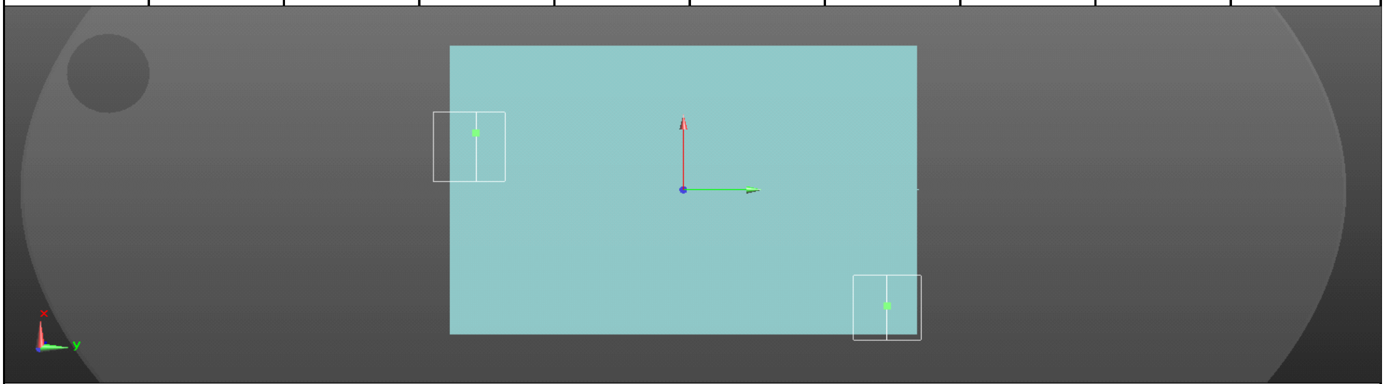
SPLSR CDMA / EVDO BC0 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC0 CH 777	Back side	1.379	2.64	-9.18	-0.34	2.448	199.1	0.019	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



CDMA BC0 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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CDMA / EVDO BC1 + BT+ 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. BC1	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR BC1 & BT	SPLSR BC1 & WLAN Aux	SPLSR BT & WLAN Aux
39	CDMA / EVDO BC1 + BT + 2.4GHz WLAN Aux	Back side	0	1.021	0.116	1.069	**2.206**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.297	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.082	0.023	0.4	0.505	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.56	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.253	1.053	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.208	0.724	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.083	0.4	0.4	0.883	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.48	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR CDMA / EVDO BC1 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BC1 CH 25	Back side	1.021	1.137	66.11	0.018	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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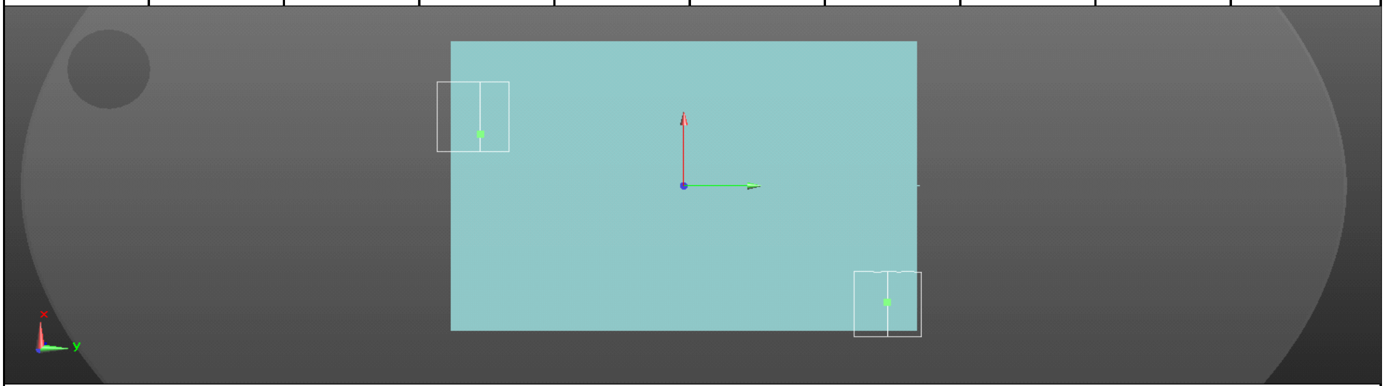
SPLSR CDMA / EVDO BC1 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC1 CH 25	Back side	1.021	2.4	-9.03	-0.25	2.09	196.7	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



CDMA BC1 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.185	140.26	0.009	SPLSR<0.04, Not required
802.11g CH 6		1.069				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

GPRS 850 + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. GPRS850	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR GPRS850 & BT	SPLSR GPRS850 & WLAN Aux	SPLSR BT & WLAN Aux
40	GPRS850 + BT + 5GHz WLAN Aux	Back side	0	1.201	0.116	1.477	**2.794**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.207	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.227	0.023	0.4	0.65	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.414	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.246	0.4	0.4	1.046	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.571	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

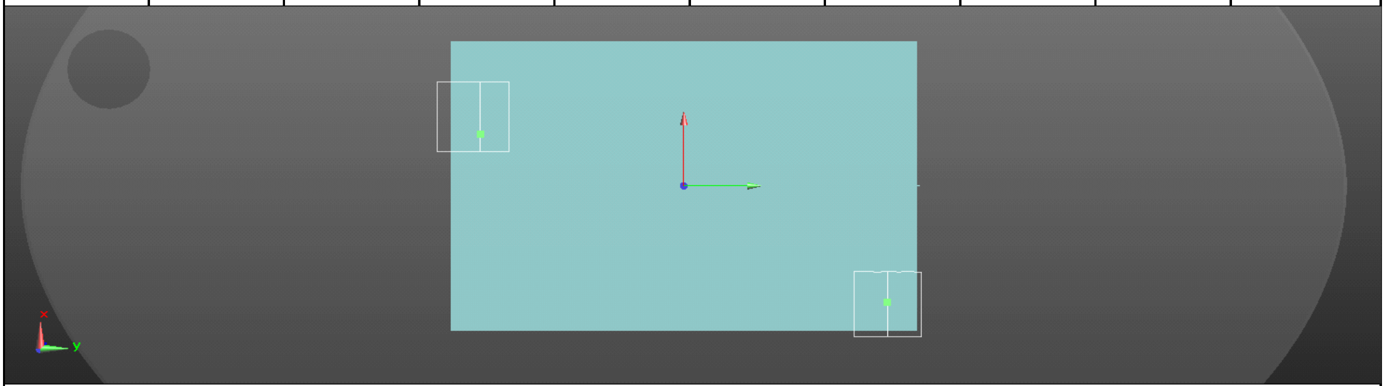
SPLSR GPRS850 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
GPRS850 CH 190	Back side	1.201	1.317	66.11	0.023	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR GPRS850 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC1 CH 25	Back side	1.021	2.4	-9.03	-0.25	2.09	196.7	0.015	SPLSR<0.04, Not required
802.11g CH 6		1.069	-5.38	9.04	-0.13				



CDMA BC1 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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GPRS 1900 + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. GPRS1900	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR GPRS1900 & BT	SPLSR GPRS1900 & WLAN Aux	SPLSR BT & WLAN Aux
41	GPRS1900 + BT + 5GHz WLAN Aux	Back side	0	0.912	0.116	1.477	**2.505**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.227	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.093	0.023	0.4	0.516	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.373	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.087	0.4	0.4	0.887	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.317	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

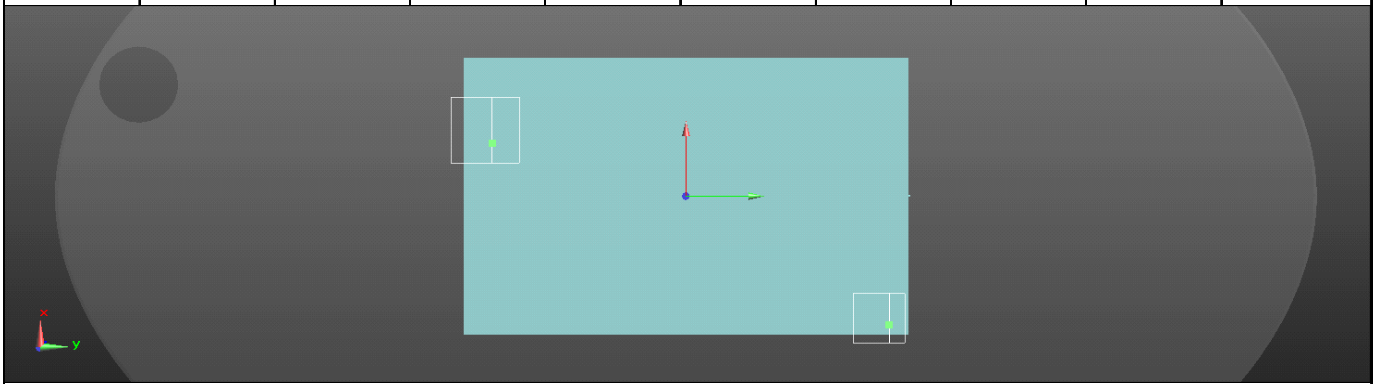
SPLSR GPRS1900 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
GPRS1900 CH 661	Back side	0.912	1.028	66.11	0.016	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR GPRS1900 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
GPRS1900 CH 661	Back side	0.912	2.56	-9.03	-0.19	2.389	204.9	0.018	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



GPRS 1900 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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WCDMA Band II + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. WCDMA B2	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B2 & BT	SPLSR WCDMA B2 & WLAN Aux	SPLSR BT & WLAN Aux
42	WCDMA B2 + BT + 5GHz WLAN Aux	Back side	0	1.007	0.116	1.477	**2.6**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.358	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.065	0.023	0.4	0.488	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.517	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.068	0.4	0.4	0.868	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.384	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR WCDMA B2 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B2 CH 9262	Back side	1.007	1.123	66.11	0.018	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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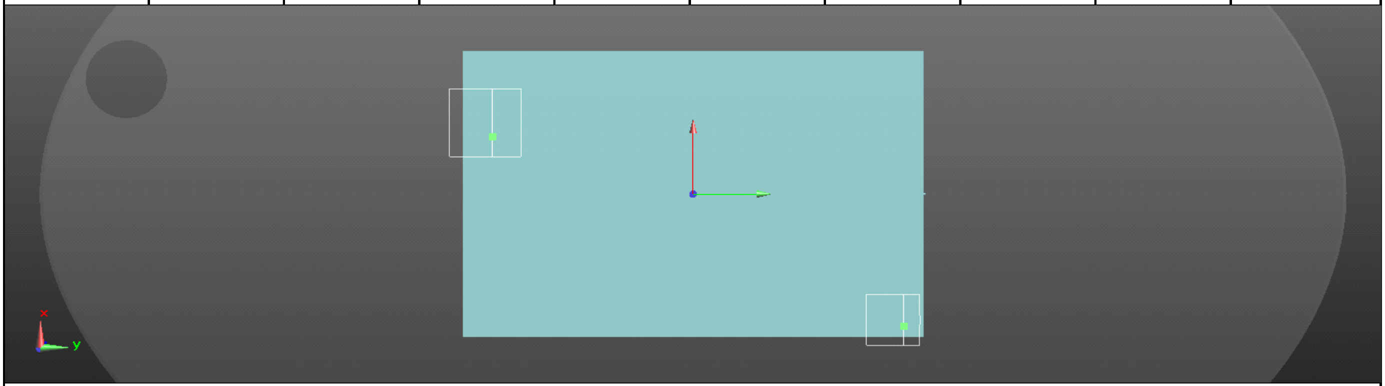
SPLSR WCDMA B2 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B2 CH 9262	Back side	1.007	2.71	-9.03	-0.23	2.484	205.5	0.019	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WCDMA B2 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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WCDMA Band IV + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. WCDMA B4	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B4 & BT	SPLSR WCDMA B4 & WLAN Aux	SPLSR BT & WLAN Aux
43	WCDMA B4 + BT + 5GHz WLAN Aux	Back side	0	1.08	0.116	1.477	**2.673**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.215	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.116	0.023	0.4	0.539	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.478	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.135	0.4	0.4	0.935	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.461	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR WCDMA B4 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B4 CH 1513	Back side	1.08	1.196	66.11	0.020	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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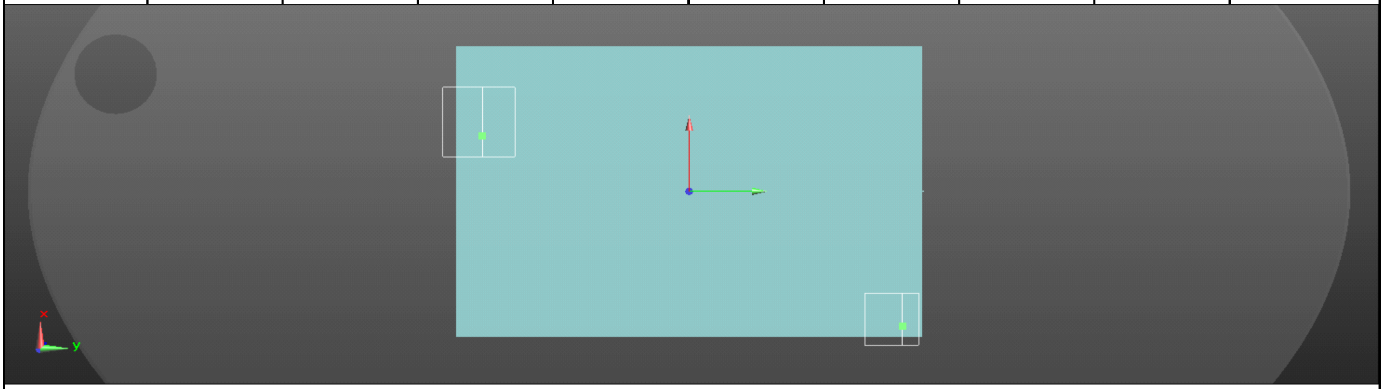
SPLSR WCDMA B4 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B4 CH 1513	Back side	1.08	2.56	-9.19	-0.26	2.557	206.3	0.020	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WCDMA B4 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

WCDMA Band V + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. WCDMA B5	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR WCDMA B5 & BT	SPLSR WCDMA B5 & WLAN Aux	SPLSR BT & WLAN Aux
44	WCDMA B5 + BT + 5GHz WLAN Aux	Back side	0	1.197	0.116	1.477	**2.79**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.183	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.243	0.023	0.4	0.666	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.159	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.265	0.4	0.4	1.065	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.772	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

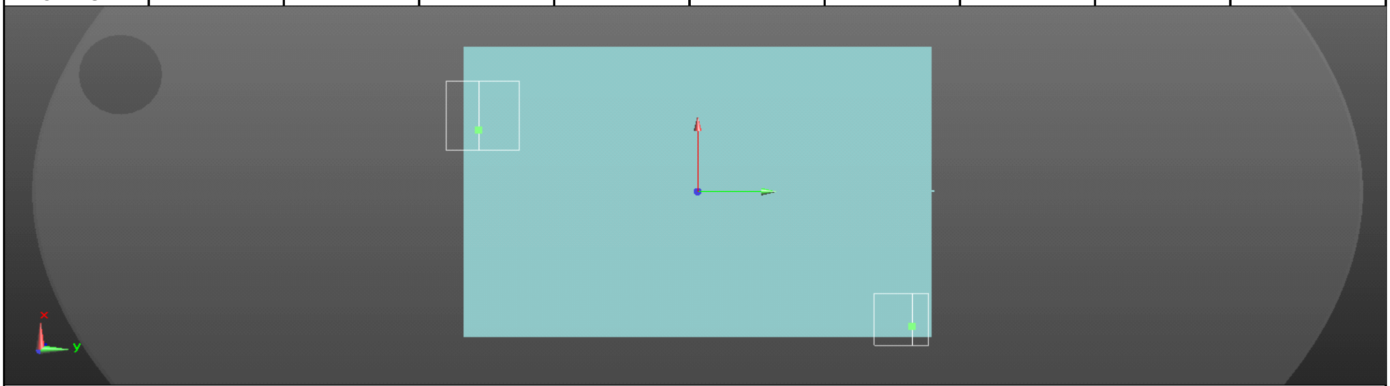
SPLSR WCDMA B5 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
WCDMA B5 CH 4233	Back side	1.197	1.313	66.11	0.023	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR WCDMA B5 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WCDMA B5 CH 4233	Back side	1.197	2.86	-9.66	-0.3	2.674	211.9	0.021	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



WCDMA B5 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

LTE FDD Band II + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B2	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B2 & BT	SPLSR LTE B2 & WLAN Aux	SPLSR BT & WLAN Aux
45	LTE B2 + BT + 5GHz WLAN Aux	Back side	0	0.81	0.116	1.477	**2.403**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.282	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.055	0.023	0.4	0.478	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.431	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.06	0.4	0.4	0.86	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.378	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 2 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B2 CH 18700	Back side	0.81	0.926	66.11	0.013	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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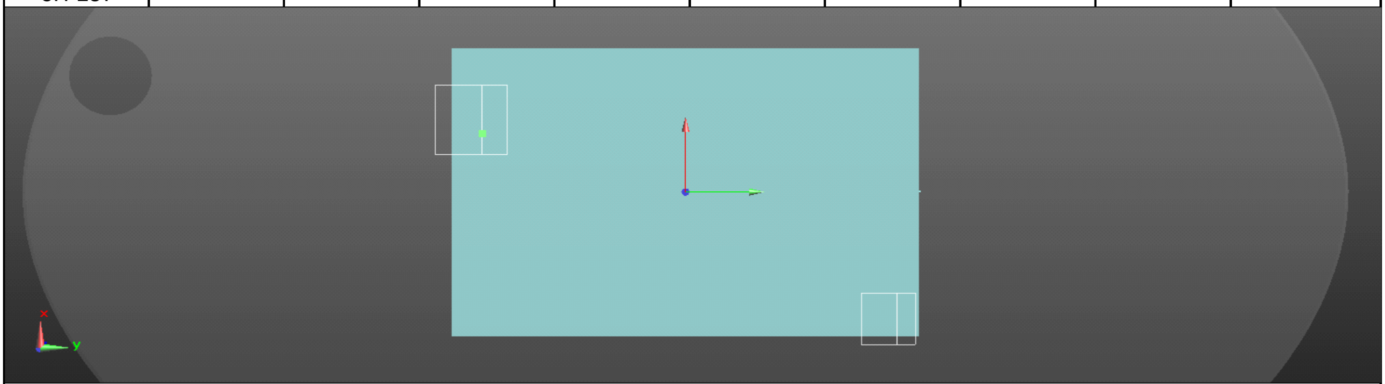
SPLSR LTE Band 2 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B2 CH 18700	Back side	0.81	2.71	-9.02	-0.2	2.287	205.4	0.017	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B2 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

LTE FDD Band IV + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B4	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B4 & BT	SPLSR LTE B4 & WLAN Aux	SPLSR BT & WLAN Aux
46	LTE B4 + BT + 5GHz WLAN Aux	Back side	0	1.34	0.116	1.477	**2.933**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.153	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.12	0.023	0.4	0.543	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.351	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.142	0.4	0.4	0.942	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.365	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 4 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B4 CH 20300	Back side	1.34	1.456	66.11	0.027	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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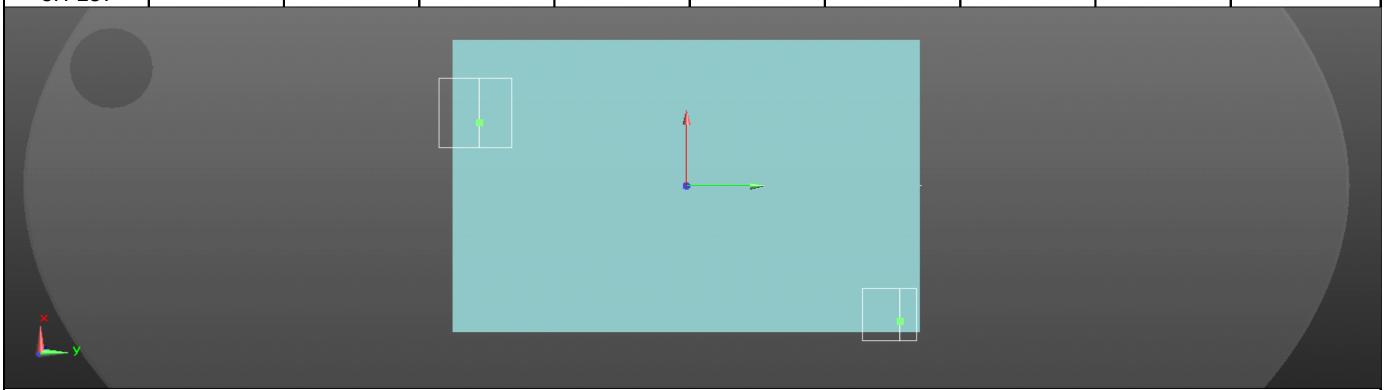
SPLSR LTE Band 4 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B4 CH 20300	Back side	1.34	2.87	-9.19	-0.2	2.817	207.7	0.023	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B4 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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LTE FDD Band V + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B5	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B5 & BT	SPLSR LTE B5 & WLAN Aux	SPLSR BT & WLAN Aux
47	LTE B5 + BT + 5GHz WLAN Aux	Back side	0	1.42	0.116	1.477	**3.013**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.162	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.2	0.023	0.4	0.623	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.952	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.324	0.4	0.4	1.124	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.535	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

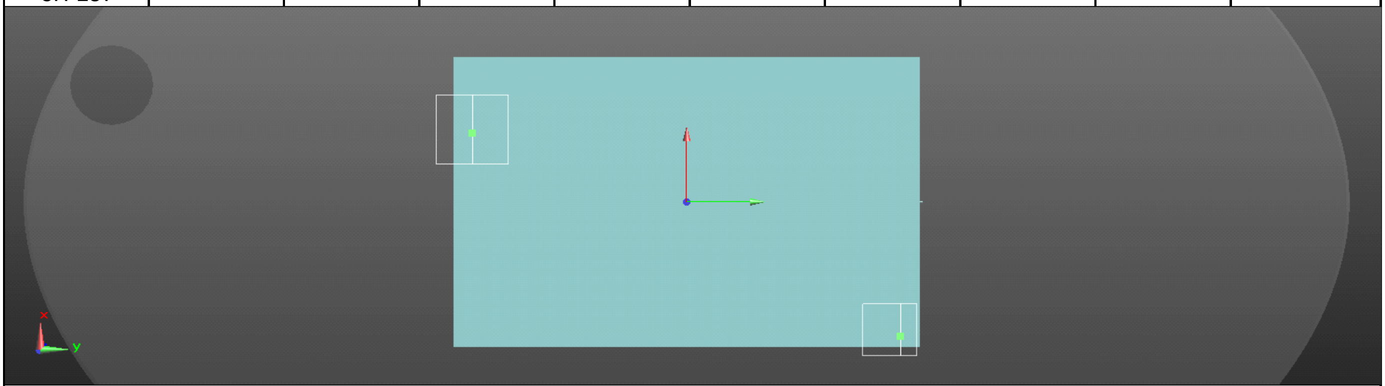
SPLSR LTE Band 5 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B5 CH 20450	Back side	1.42	1.536	66.11	0.029	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR LTE Band 5 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B5 CH 20450	Back side	1.42	3.19	-9.5	-0.27	2.897	211.8	0.023	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B5 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

LTE FDD Band XIII + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B13	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B13 & BT	SPLSR LTE B13 & WLAN Aux	SPLSR BT & WLAN Aux
48	LTE B13 + BT + 5GHz WLAN Aux	Back side	0	1.404	0.116	1.477	**2.997**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.1	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.207	0.023	0.4	0.63	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.727	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.278	0.4	0.4	1.078	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.367	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 13 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B13 CH 23230	Back side	1.404	1.52	66.11	0.028	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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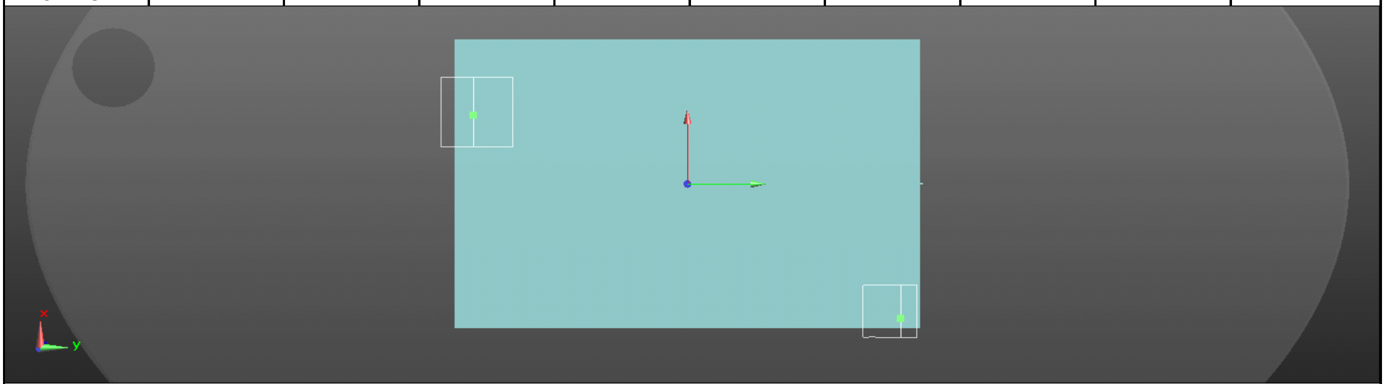
SPLSR LTE Band 13 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B13 CH 23230	Back side	1.404	3.19	-9.51	-0.27	2.881	211.9	0.023	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B13 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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LTE FDD Band XVII + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B17	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B17 & BT	SPLSR LTE B17 & WLAN Aux	SPLSR BT & WLAN Aux
49	LTE B17 + BT + 5GHz WLAN Aux	Back side	0	1.035	0.116	1.477	**2.628**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.042	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.188	0.023	0.4	0.611	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.462	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.175	0.4	0.4	0.975	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.135	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

SPLSR LTE Band 17 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B17 CH 23800	Back side	1.035	1.151	66.11	0.019	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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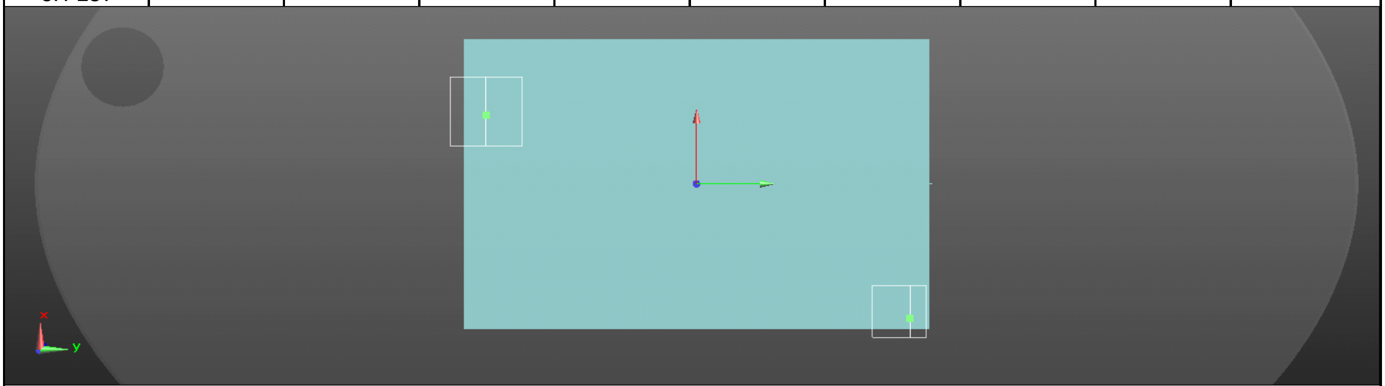
SPLSR LTE Band 17 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B17 CH 23800	Back side	1.035	3.19	-9.35	-0.27	2.512	210.5	0.019	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B17 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

LTE FDD Band XXV + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. LTE B25	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR LTE B25 & BT	SPLSR LTE B25 & WLAN Aux	SPLSR BT & WLAN Aux
50	LTE B25 + BT + 5GHz WLAN Aux	Back side	0	0.97	0.116	1.477	**2.563**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.235	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.087	0.023	0.4	0.51	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.35	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.107	0.4	0.4	0.907	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.351	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

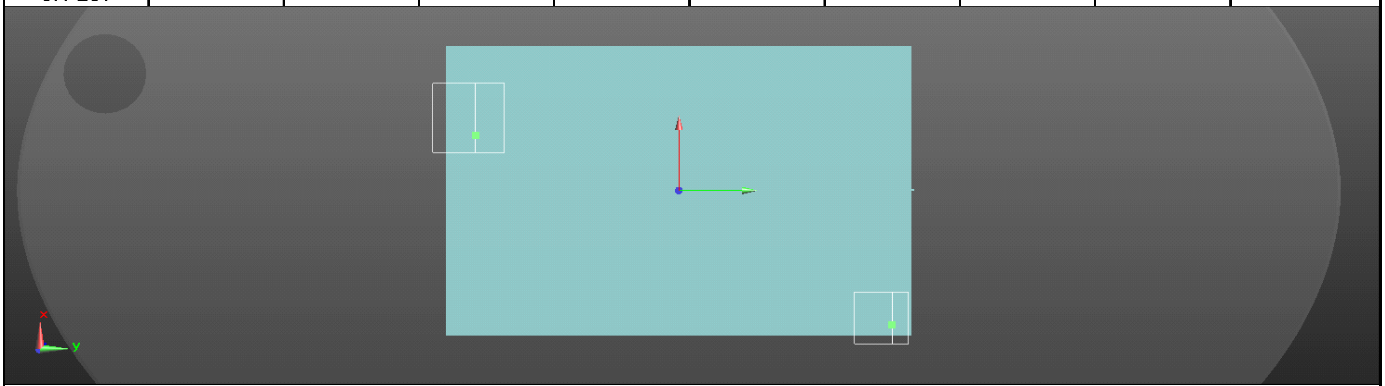
SPLSR LTE Band 25 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
LTE B25 CH 26140	Back side	0.97	1.086	66.11	0.017	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR LTE Band 25 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
LTE B25 CH 26140	Back side	0.97	2.55	-9.03	-0.22	2.447	204.8	0.019	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



LTE B25 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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CDMA / EVDO BC0 + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. BC0	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR BC0 & BT	SPLSR BC0 & WLAN Aux	SPLSR BT & WLAN Aux
51	CDMA / EVDO BC0 + BT + 5GHz WLAN Aux	Back side	0	1.379	0.116	1.477	**2.972**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.149	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.289	0.023	0.4	0.712	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	1.21	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.309	0.4	0.4	1.109	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.632	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

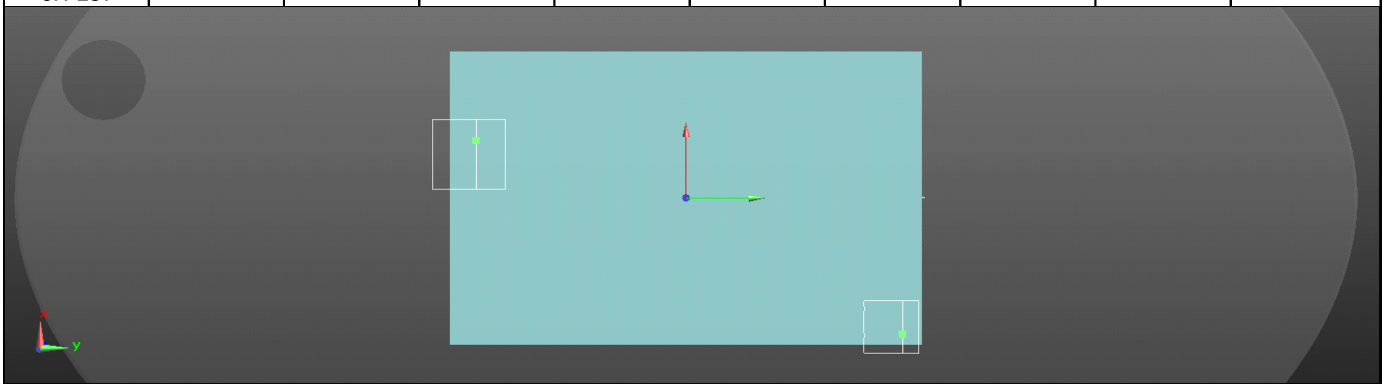
SPLSR CDMA / EVDO BC0 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BC0 CH 777	Back side	1.379	1.495	66.11	0.028	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR CDMA / EVDO BC0 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC0 CH 777	Back side	1.379	2.64	-9.18	-0.34	2.856	206.6	0.023	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



CDMA BC0 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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CDMA / EVDO BC1 + BT+ 5GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. BC1	Max. BT	Max. WLAN Aux	SAR Sum	SPLSR BC1 & BT	SPLSR BC1 & WLAN Aux	SPLSR BT & WLAN Aux
52	CDMA / EVDO BC1 + BT + 5GHz WLAN Aux	Back side	0	1.021	0.116	1.477	**2.614**	Analyzed as below	Analyzed as below	Analyzed as below
		Back side	25	0.297	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	0	0.082	0.023	0.4	0.505	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Top side	5	0.56	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Bottom side	0	0.4	0.4	0.287	1.087	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Left side	0	0.4	0.116	0.27	0.786	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	0	0.083	0.4	0.4	0.883	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required
		Right side	4	0.48	-	-	-	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required	ΣSAR<1.6, Not required

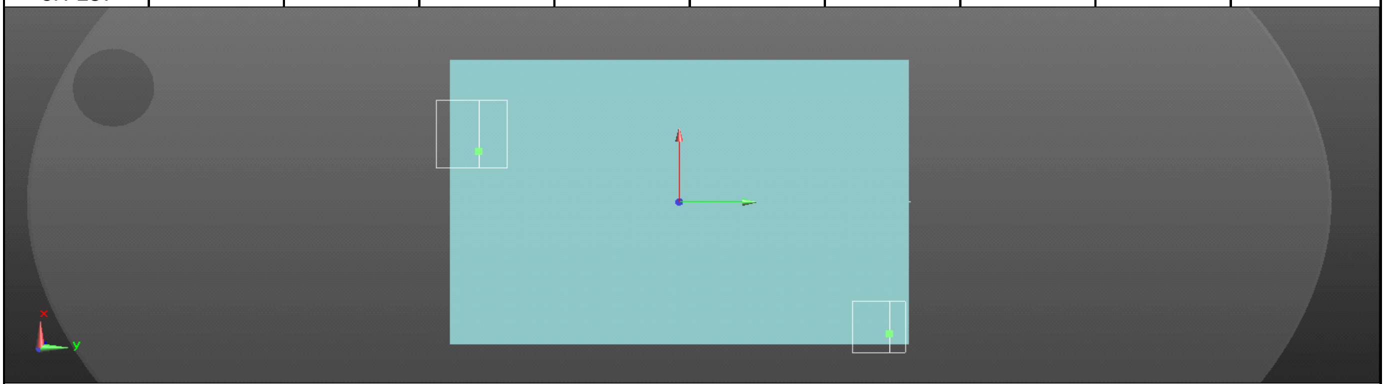
SPLSR CDMA / EVDO BC1 & BT

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BC1 CH 25	Back side	1.021	1.137	66.11	0.018	SPLSR<0.04, Not required
BT		0.116				

#. Since BT SAR measurement is excluded, we use the distance between WWAN antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

SPLSR CDMA / EVDO BC1 & WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
BC1 CH 25	Back side	1.021	2.4	-9.03	-0.25	2.498	204.2	0.019	SPLSR<0.04, Not required
802.11a CH 157		1.477	-6.22	9.48	-0.16				



CDMA BC1 **WLAN Aux**

SPLSR BT & WLAN Aux

Conditions	Position	SAR Value (W/kg)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
BT	Back side	0.116	1.593	140.26	0.014	SPLSR<0.04, Not required
802.11a CH 157		1.477				

#. Since BT SAR measurement is excluded, we use the distance between WLAN Aux antenna and BT antenna to represent the peak location separation distance to be the conservative condition.

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4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	3923	Aug.28,2014	Aug.27,2015
			3831	Jan.29,2015	Jan.28,2016
Schmid & Partner Engineering AG	System Validation Dipole	D750V2	1015	Aug.28,2014	Aug.27,2015
		D835V2	4d063	Aug.28,2014	Aug.27,2015
		D1750V2	1008	Aug.28,2014	Aug.27,2015
		D1900V2	5d018	Jun.18,2014	Jun.17,2015
		D2450V2	727	Apr.23,2014	Apr.22,2015
		D5GHzV2	1023	Jan.29,2015	Jan.28,2016
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE3	360	Dec.11,2014	Dec.10,2015
		DAE4	916	Dec.29,2014	Dec.28,2015
Schmid & Partner Engineering AG	Software	DASY 52 V52.8.8	N/A	Calibration not required	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required	Calibration not required
HP	Network Analyzer	8753D	3410A05547	May.15,2014	May.14,2015
Agilent	Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required
Agilent	Dual-directional coupler	772D	MY46151242	Jul.14,2014	Jul.13,2015
		778D	50313	Aug.07,2014	Aug.06,2015
Agilent	RF Signal Generator	N5181A	MY50144143	Jun.25.2014	Jun.24.2015

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Agilent	Power Meter	E4417A	MY51410006	Oct.25,2013	Oct.24,2015
Agilent	Power Sensor	E9301H	MY51470001	Dec.11,2014	Dec.10,2015
TECPEL	Digital thermometer	DTM-303A	TP130078	Mar.30,2015	Mar.29,2016
R&S	Radio Communication Test	CMU200	113505	May.08,2014	May.07,2015
Anritsu	Radio Communication Test	MT8820C	6201061014	Aug.06,2014	Aug.05,2015

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5. Measurements

Date: 2015/4/12

GPRS 850_Body-worn_Top side_CH 251_5mm

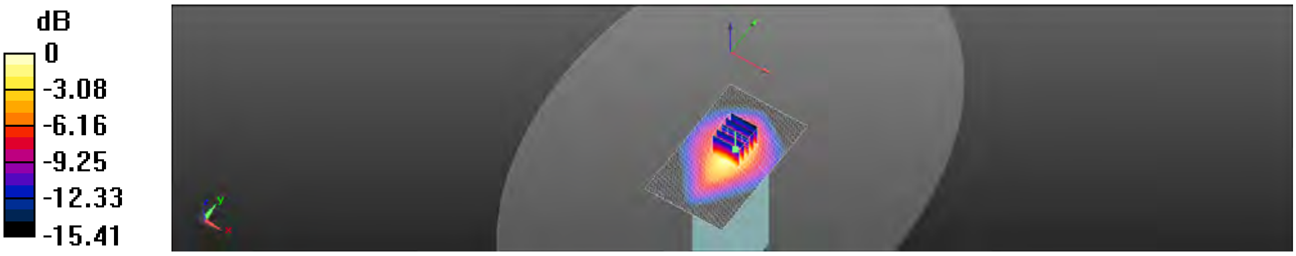
Communication System: GPRS(1Dn2Up); Frequency: 848.8 MHz
Medium parameters used: f = 849 MHz; σ = 0.982 S/m; ε_r = 54.261; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.93 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 40.161 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.69 W/kg
SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.713 W/kg
Maximum value of SAR (measured) = 2.01 W/kg



0 dB = 2.01 W/kg = 3.02 dBW/kg

Date: 2015/4/12

GPRS 850_Body-worn_Top side_CH 251_5mm_repeated with 2nd battery

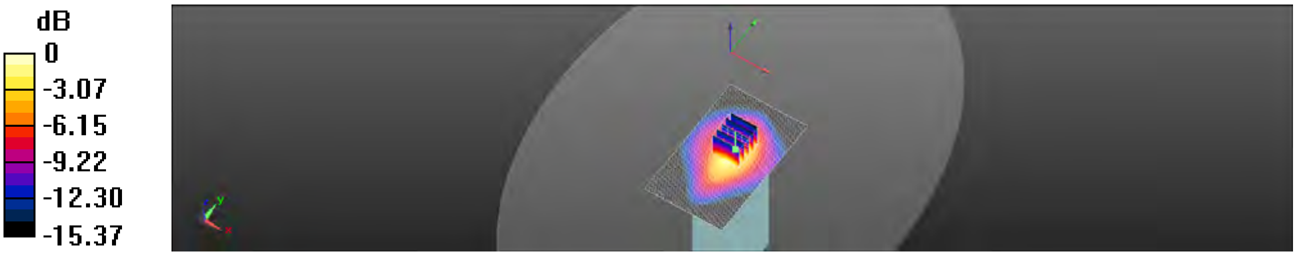
Communication System: GPRS(1Dn2Up); Frequency: 848.8 MHz
Medium parameters used: f = 849 MHz; σ = 0.982 S/m; ε_r = 54.261; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.78 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 39.98 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.67 W/kg
SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.675 W/kg
Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.88 W/kg = 2.75 dBW/kg

Date: 2015/4/16

GPRS 1900_Body-worn_Back side_CH 810_0mm_repeat SAR test at the highest SAR measurement

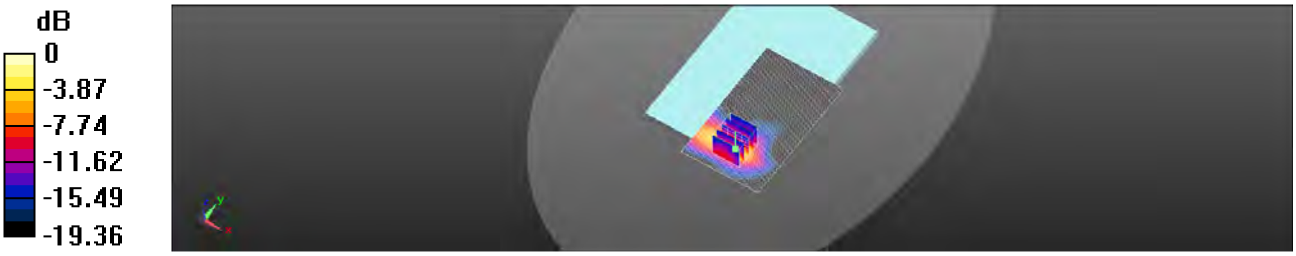
Communication System: GPRS(1Dn2Up); Frequency: 1909.8 MHz
Medium parameters used: f = 1910 MHz; σ = 1.546 S/m; ε_r = 51.942; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.367 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 0.831 W/kg; SAR(10 g) = 0.369 W/kg
Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.47 dBW/kg

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Date: 2015/4/16

GPRS 1900_Body-worn_Back side_CH 661_0mm_repeated with 2nd battery

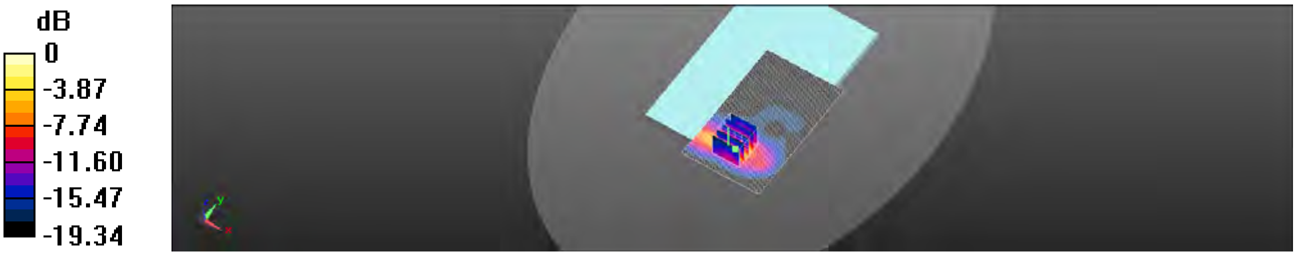
Communication System: GPRS(1Dn2Up); Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.514 S/m; ε_r = 52.131; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 0.874 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.926 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.80 W/kg
SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.318 W/kg
Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.89 dBW/kg

WCDMA Band II_Body-worn_Back side_CH 9262_0mm

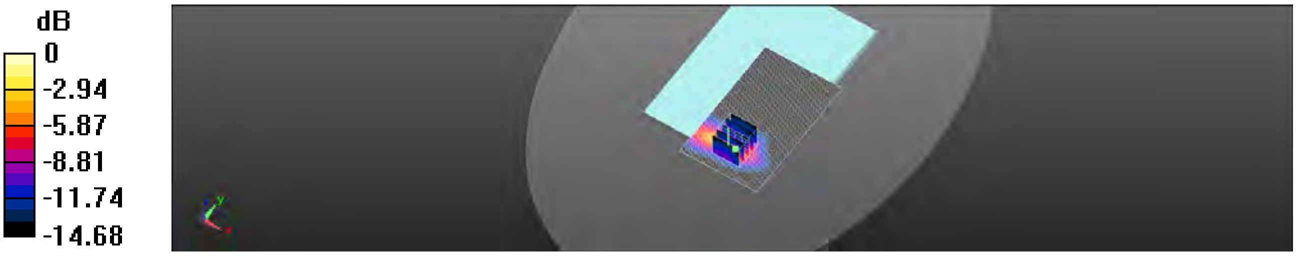
Communication System: WCDMA; Frequency: 1852.4 MHz
Medium parameters used: f = 1852.4 MHz; σ = 1.485 S/m; ε_r = 52.321; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.901 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.32 W/kg
SAR(1 g) = 0.998 W/kg; SAR(10 g) = 0.439 W/kg
Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

WCDMA Band II_Body-worn_Back side_CH 9262_0mm_repeated with 2nd battery

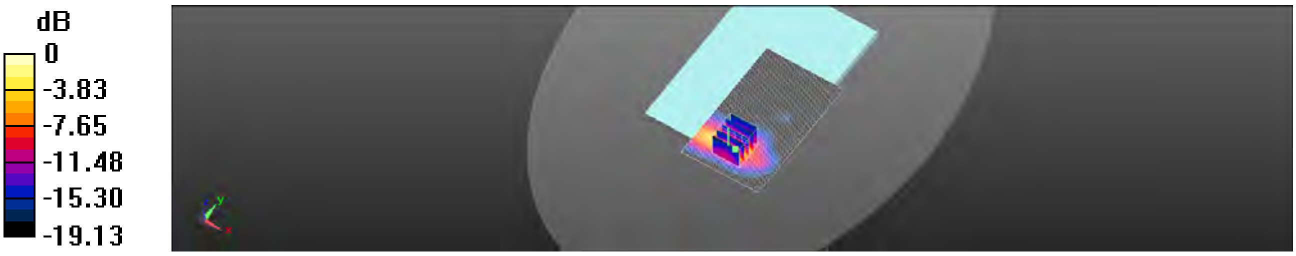
Communication System: WCDMA; Frequency: 1852.4 MHz
Medium parameters used: f = 1852.4 MHz; σ = 1.485 S/m; ε_r = 52.321; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.824 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.09 W/kg
SAR(1 g) = 0.877 W/kg; SAR(10 g) = 0.370 W/kg
Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

Date: 2015/4/15

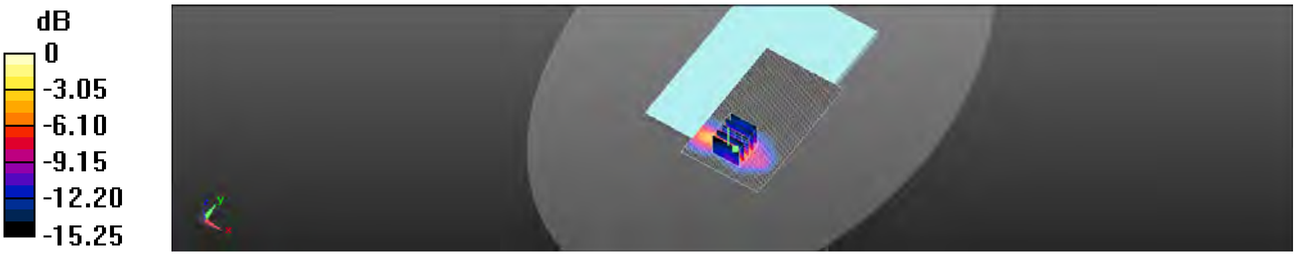
WCDMA Band IV_Body-worn_Back side_CH 1513_0mm

Communication System: WCDMA; Frequency: 1752.6 MHz
Medium parameters used: f = 1753 MHz; σ = 1.484 S/m; ε_r = 51.802; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:
- Probe: EX3DV4 - SN3923; ConvF(8.3, 8.3, 8.3); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.28 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.413 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.53 W/kg
SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.466 W/kg
Maximum value of SAR (measured) = 1.67 W/kg



0 dB = 1.67 W/kg = 2.22 dBW/kg

Date: 2015/4/15

WCDMA Band IV_Body-worn_Back side_CH 1513_0mm_repeated with 2nd battery

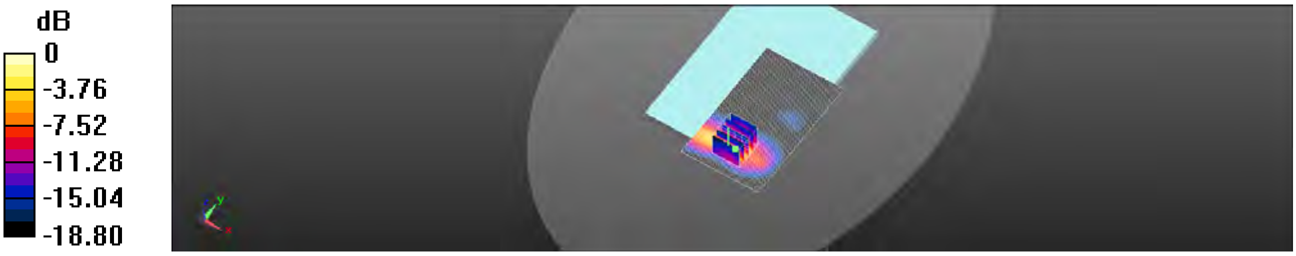
Communication System: WCDMA; Frequency: 1752.6 MHz
Medium parameters used: f = 1753 MHz; σ = 1.484 S/m; ε_r = 51.802; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.3, 8.3, 8.3); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.12 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.321 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 2.25 W/kg
SAR(1 g) = 0.969 W/kg; SAR(10 g) = 0.411 W/kg
Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg = 1.61 dBW/kg

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Date: 2015/4/12

WCDMA Band V_Body-worn_Top side_CH 4183_5mm

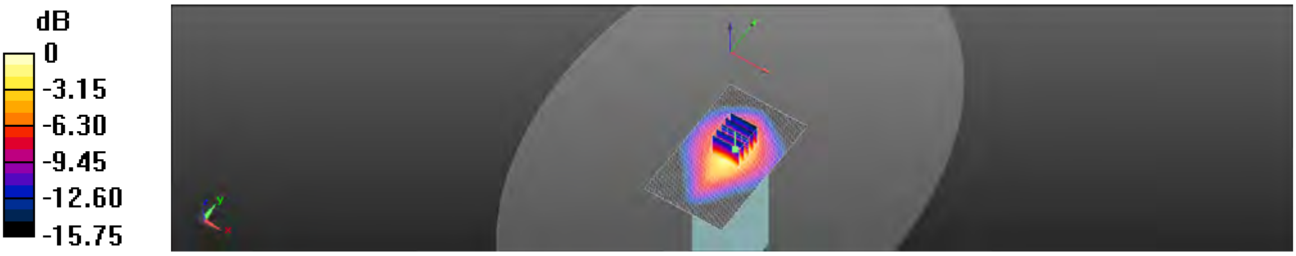
Communication System: WCDMA; Frequency: 836.6 MHz
Medium parameters used: f = 837 MHz; σ = 0.968 S/m; ε_r = 54.333; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.60 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 36.30 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.582 W/kg
Maximum value of SAR (measured) = 1.74 W/kg



0 dB = 1.74 W/kg = 2.40 dBW/kg

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Date: 2015/4/12

WCDMA Band V_Body-worn_Back side_CH 4233_0mm_repeated with 2^{nd} battery

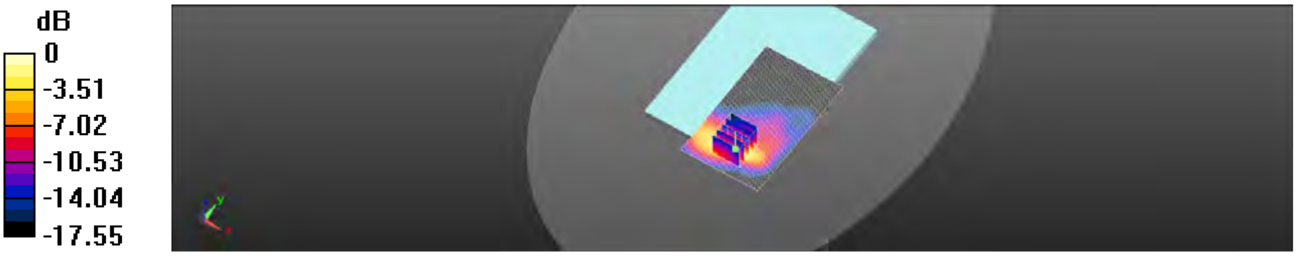
Communication System: WCDMA; Frequency: 846.6 MHz
Medium parameters used: f = 847 MHz; σ = 0.978 S/m; ε_r = 54.315; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.53 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.806 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.91 W/kg
SAR(1 g) = 0.901 W/kg; SAR(10 g) = 0.428 W/kg
Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg = 1.60 dBW/kg

Date: 2015/4/17

LTE Band 2 (20MHz)_Body-worn_Back side_CH 18700_QPSK_1-0_0mm

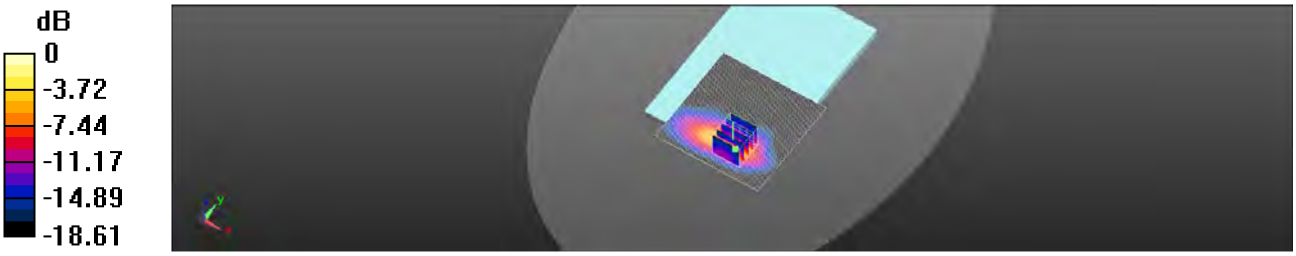
Communication System: LTE; Frequency: 1860 MHz
Medium parameters used: f = 1860 MHz; σ = 1.499 S/m; ε_r = 52.229; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 0.993 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.725 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.02 W/kg
SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.331 W/kg
Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

Date: 2015/4/17

LTE Band 2 (20MHz)_Body-worn_Back side_CH 18700_QPSK_1-0_0mm_repeated with 2nd battery

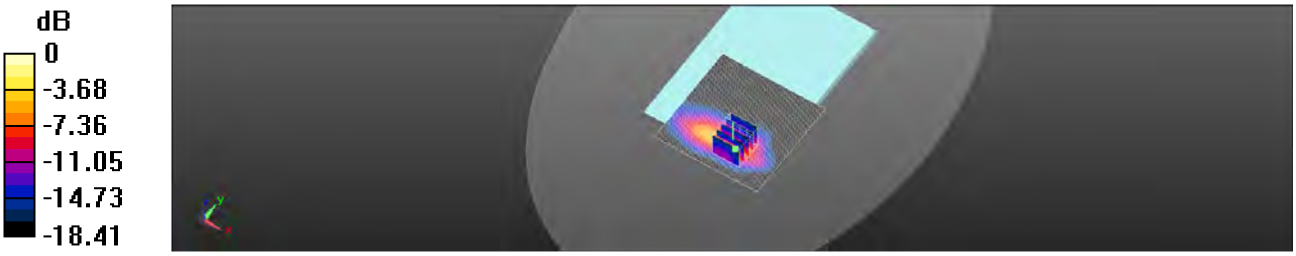
Communication System: LTE; Frequency: 1860 MHz
Medium parameters used: f = 1860 MHz; σ = 1.499 S/m; ε_r = 52.229; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 0.848 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.884 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 0.706 W/kg; SAR(10 g) = 0.292 W/kg
Maximum value of SAR (measured) = 0.990 W/kg



0 dB = 0.990 W/kg = -0.04 dBW/kg

Date: 2015/4/15

LTE Band 4 (20MHz)_Body-worn_Back side_CH 20300_QPSK_50-25_0mm

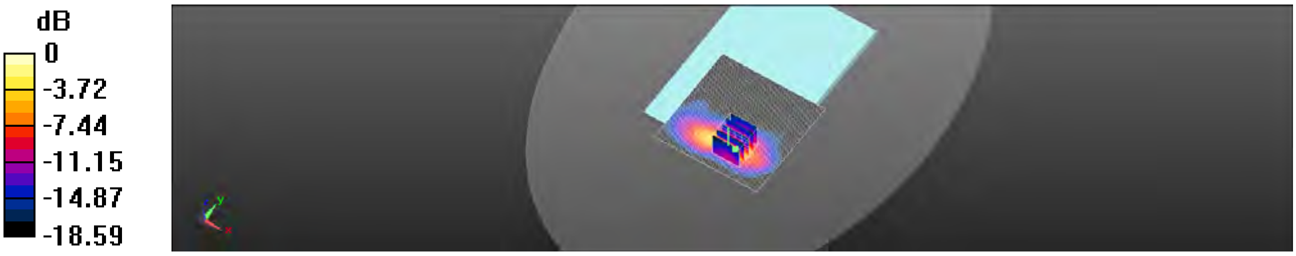
Communication System: LTE; Frequency: 1745 MHz
Medium parameters used: f = 1745 MHz; σ = 1.475 S/m; ε_r = 51.844; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.3, 8.3, 8.3); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.39 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.465 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.58 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.476 W/kg
Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kg = 2.19 dBW/kg

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Date: 2015/4/15

LTE Band 4 (20MHz)_Body-worn_Back side_CH 20300_QPSK_50-25_0mm_repeated with 2nd battery

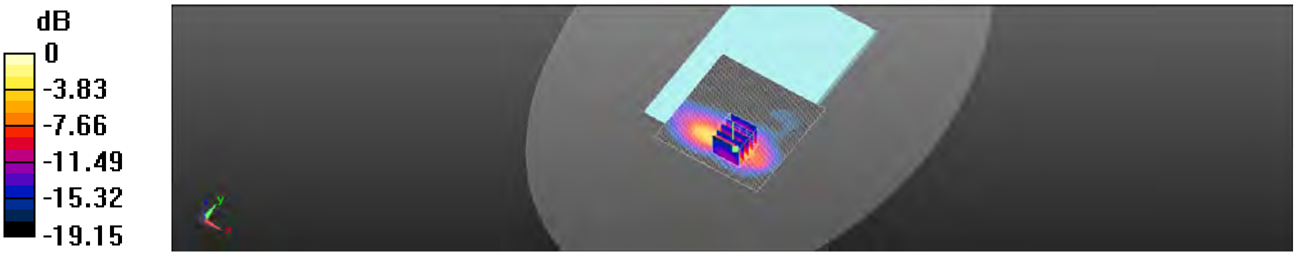
Communication System: LTE; Frequency: 1745 MHz
Medium parameters used: f = 1745 MHz; σ = 1.475 S/m; ε_r = 51.844; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.3, 8.3, 8.3); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.733 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 2.77 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.453 W/kg
Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

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Date: 2015/4/13

LTE Band 5 (10MHz)_Body-worn_Back side_CH 20450_QPSK_1-49_0mm

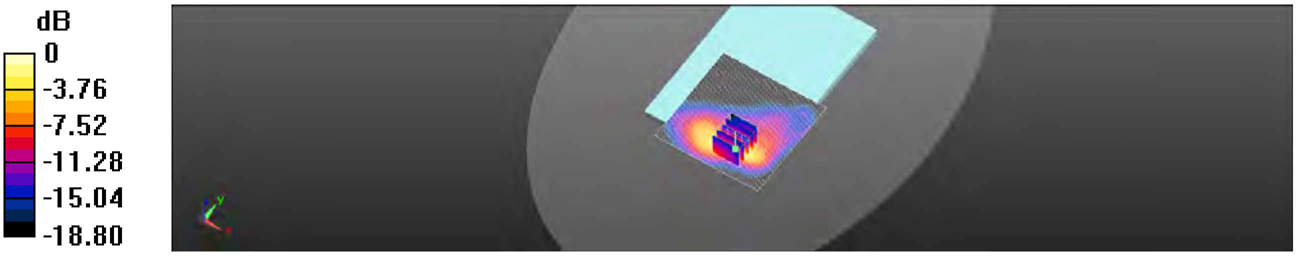
Communication System: LTE; Frequency: 829 MHz
Medium parameters used: f = 829 MHz; σ = 0.965 S/m; ε_r = 54.152; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.99 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.892 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.72 W/kg
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.543 W/kg
Maximum value of SAR (measured) = 2.03 W/kg



0 dB = 2.03 W/kg = 3.06 dBW/kg

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Date: 2015/4/13

LTE Band 5 (10MHz)_Body-worn_Back side_CH 20450_QPSK_50-0_0mm_repeated with 2nd battery

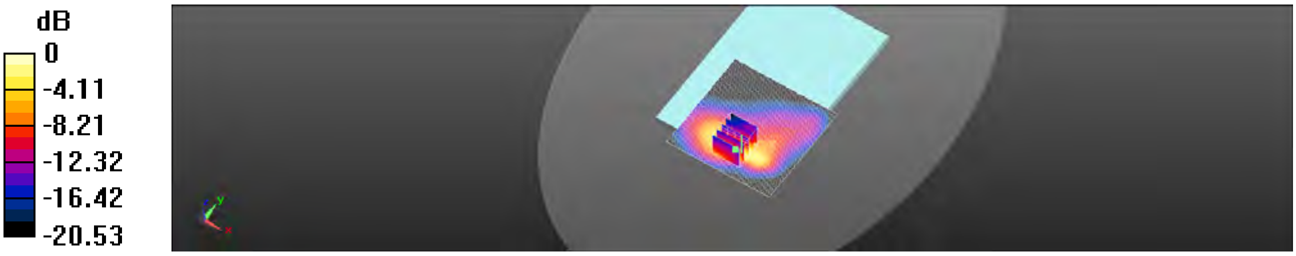
Communication System: LTE; Frequency: 829 MHz
Medium parameters used: f = 829 MHz; σ = 0.965 S/m; ε_r = 54.152; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.58 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.043 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 2.48 W/kg
SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.484 W/kg
Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.80 W/kg = 2.56 dBW/kg

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Date: 2015/4/14

LTE Band 13 (10MHz)_Body-worn_Back side_CH 23230_QPSK_1-0_0mm

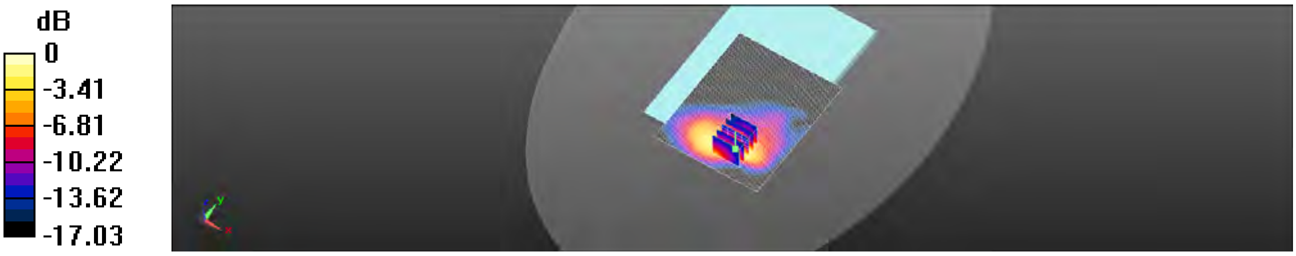
Communication System: LTE; Frequency: 782 MHz
Medium parameters used: f = 782 MHz; σ = 1.002 S/m; ε_r = 54.583; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.29, 10.29, 10.29); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 2.15 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.847 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.62 W/kg
SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.595 W/kg
Maximum value of SAR (measured) = 1.96 W/kg



0 dB = 1.96 W/kg = 2.92 dBW/kg

Date: 2015/4/14

LTE Band 13 (10MHz)_Body-worn_Back side_CH 23230_QPSK_1-0_0mm_repeated with 2nd battery

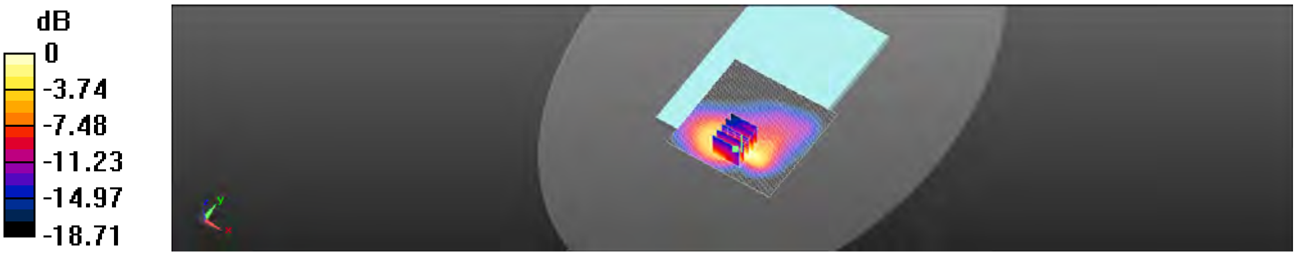
Communication System: LTE; Frequency: 782 MHz
Medium parameters used: f = 782 MHz; σ = 1.002 S/m; ε_r = 54.583; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.29, 10.29, 10.29); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.82 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.681 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.63 W/kg
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.571 W/kg
Maximum value of SAR (measured) = 1.98 W/kg



0 dB = 1.98 W/kg = 2.98 dBW/kg

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LTE Band 17 (10MHz)_Body-worn_Back side_CH 23800_QPSK_1-49_0mm

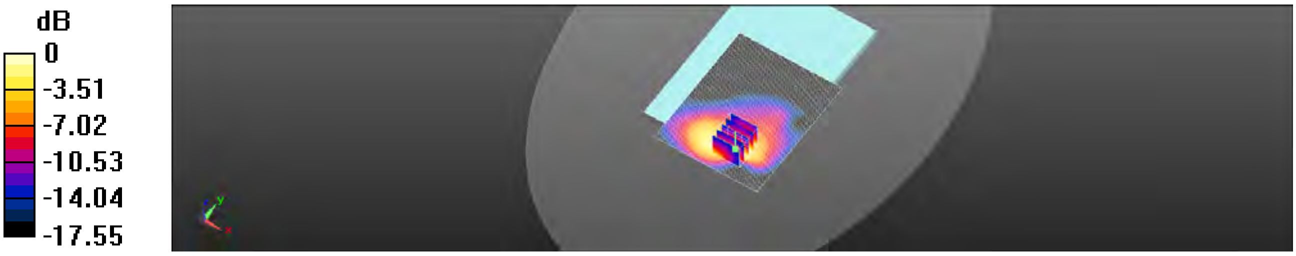
Communication System: LTE; Frequency: 711 MHz
Medium parameters used: f = 711 MHz; σ = 0.933 S/m; ε_r = 54.904; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.29, 10.29, 10.29); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.88 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.706 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.18 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.520 W/kg
Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

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Date: 2015/4/14

LTE Band 17 (10MHz)_Body-worn_Back side_CH 23800_QPSK_1-49_0mm_repeated with 2nd battery

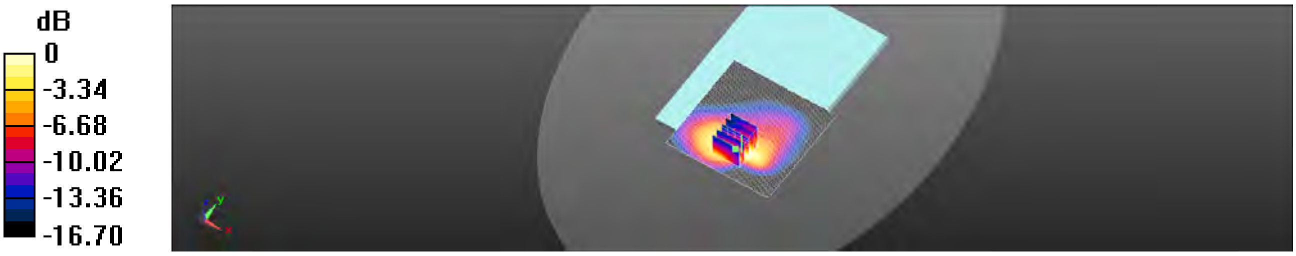
Communication System: LTE; Frequency: 711 MHz
Medium parameters used: f = 711 MHz; σ = 0.933 S/m; ε_r = 54.904; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.29, 10.29, 10.29); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.52 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.056 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.513 W/kg
Maximum value of SAR (measured) = 1.64 W/kg



0 dB = 1.64 W/kg = 2.15 dBW/kg

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Date: 2015/4/17

LTE Band 25 (20MHz)_Body-worn_Back side_CH 26140_QPSK_50-0_0mm

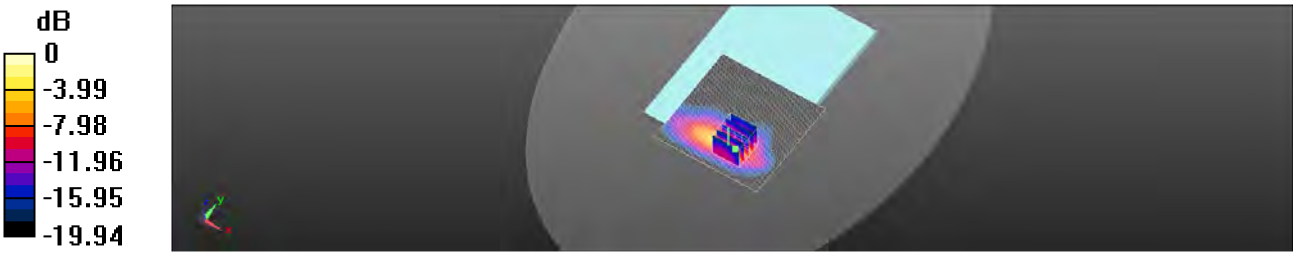
Communication System: LTE; Frequency: 1860 MHz
Medium parameters used: f = 1860 MHz; σ = 1.499 S/m; ε_r = 52.229; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.11 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.326 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 2.18 W/kg
SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.47 dBW/kg

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Date: 2015/4/17

LTE Band 25 (20MHz)_Body-worn_Back side_CH 26140_QPSK_50-0_0mm_repeated with 2nd battery

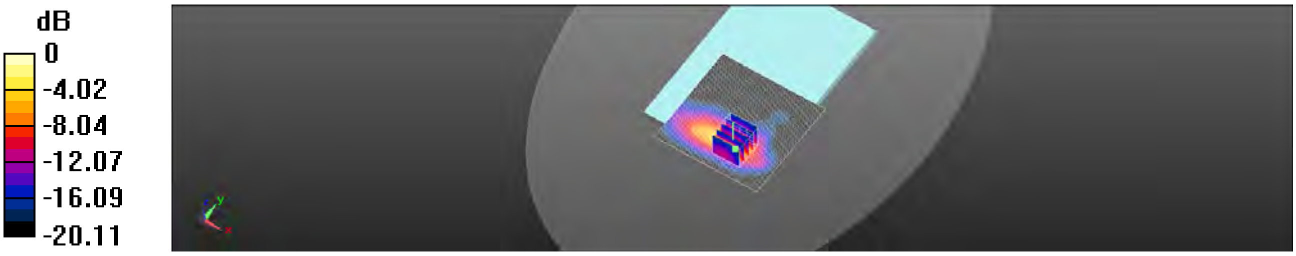
Communication System: LTE; Frequency: 1860 MHz
Medium parameters used: f = 1860 MHz; σ = 1.499 S/m; ε_r = 52.229; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x81x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.10 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.980 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.375 W/kg
Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.06 dBW/kg

Date: 2015/4/12

Cellular BC0_Body-worn_Back side_CH 777_0mm_1xEVDO Rev. 0

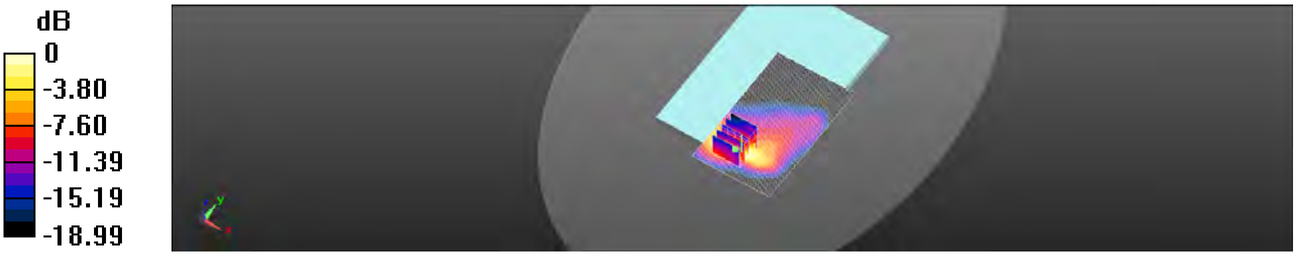
Communication System: 1xEVDO; Frequency: 848.31 MHz
Medium parameters used: f = 848.31 MHz; σ = 0.981 S/m; ε_r = 54.265; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.80 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.588 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.10 W/kg
SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.622 W/kg
Maximum value of SAR (measured) = 1.96 W/kg



0 dB = 1.96 W/kg = 2.92 dBW/kg

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Date: 2015/4/12

Cellular BC0_Body-worn_Back side_CH 777_0mm_1xEVDO Rev. 0_ repeated with 2nd battery

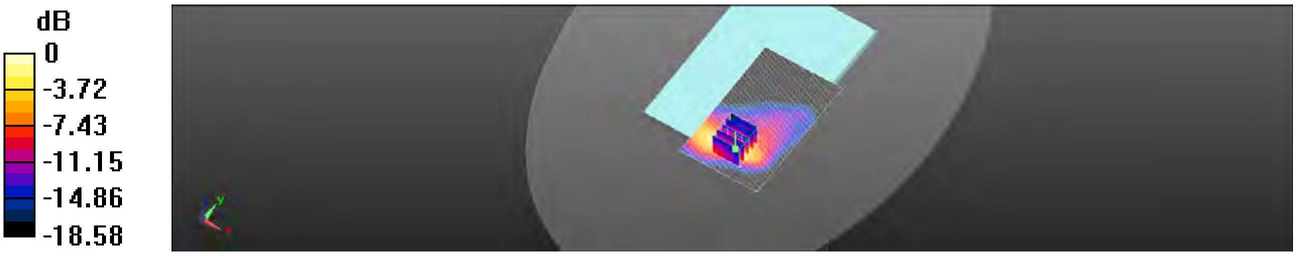
Communication System: 1xEVDO; Frequency: 848.31 MHz
Medium parameters used: f = 848.31 MHz; σ = 0.981 S/m; ε_r = 54.265; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 2.00 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.061 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 3.16 W/kg
SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.626 W/kg
Maximum value of SAR (measured) = 2.31 W/kg



0 dB = 2.31 W/kg = 3.64 dBW/kg

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Date: 2015/4/16

PCS BC1_Body-worn_Back side_CH 25_0mm_1xEVDO Rev. 0

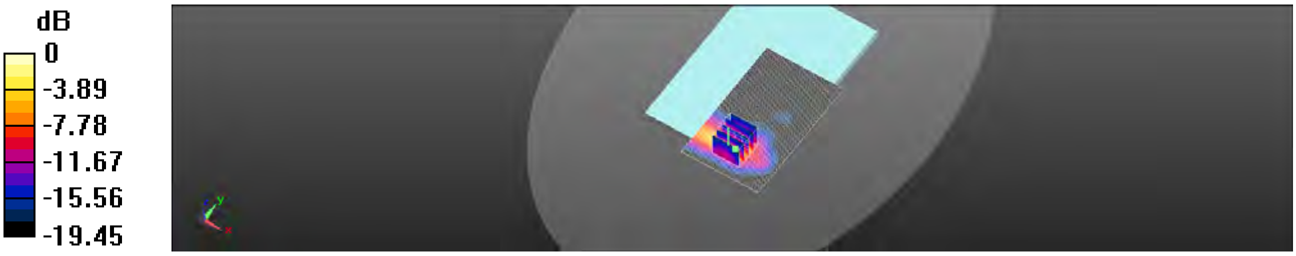
Communication System: 1xEVDO; Frequency: 1851.25 MHz
Medium parameters used: f = 1851.25 MHz; σ = 1.484 S/m; ε_r = 52.329; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.017 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 2.42 W/kg
SAR(1 g) = 1 W/kg; SAR(10 g) = 0.420 W/kg
Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

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Date: 2015/4/16

PCS BC1_Body-worn_Back side_CH 25_0mm_1xEVDO Rev. 0_repeated with 2nd battery

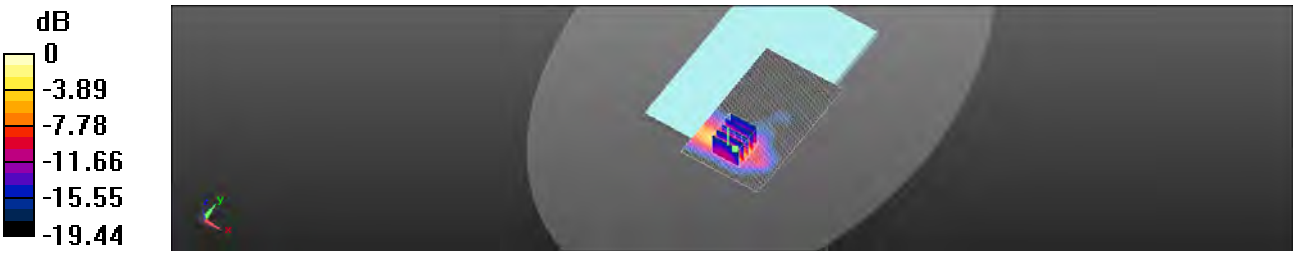
Communication System: 1xEVDO; Frequency: 1851.25 MHz
Medium parameters used: f = 1851.25 MHz; σ = 1.484 S/m; ε_r = 52.329; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.704 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.40 W/kg
SAR(1 g) = 0.984 W/kg; SAR(10 g) = 0.414 W/kg
Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.39 W/kg = 1.44 dBW/kg

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Date: 2015/4/3

WLAN802.11b_Body-worn_Back side_CH 11_Main_0mm

Communication System: WLAN(2.45G); Frequency: 2462 MHz
Medium parameters used: f = 2462 MHz; σ = 1.901 S/m; ε_r = 53.551; ρ = 1000 kg/m^3
Phantom section: Flat Section

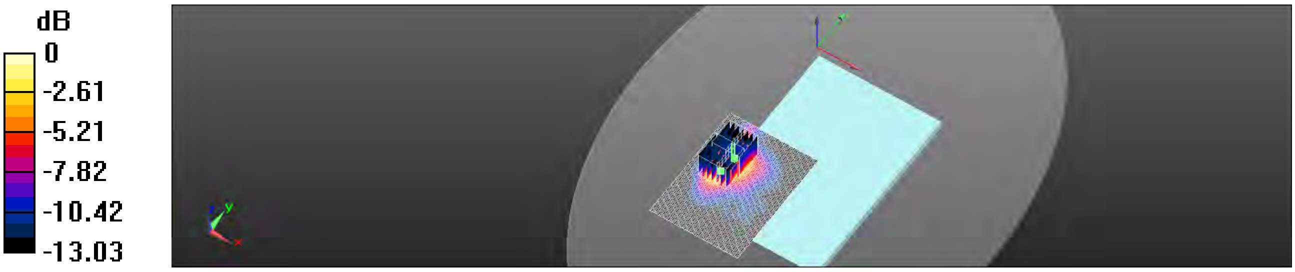
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x111x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.27 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.313 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.43 W/kg
SAR(1 g) = 0.670 W/kg; SAR(10 g) = 0.354 W/kg
Maximum value of SAR (measured) = 1.02 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.313 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.355 W/kg
Maximum value of SAR (measured) = 1.04 W/kg



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

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Date: 2015/4/3

WLAN802.11g_Body-worn_Back side_CH 6_Main_0mm

Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

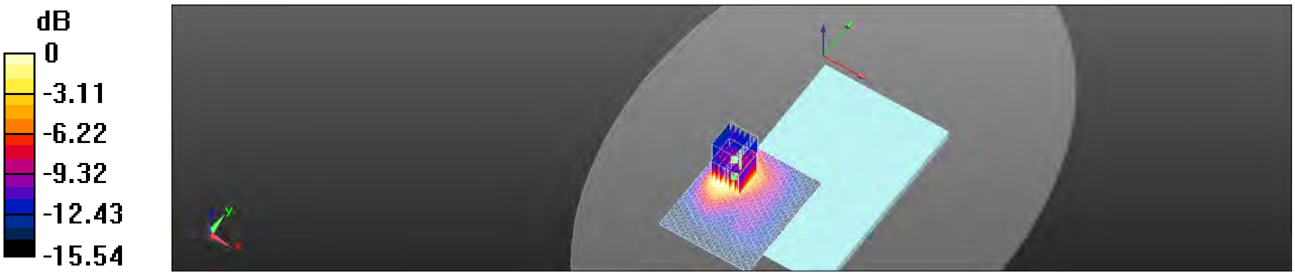
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 0.851 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.111 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.326 W/kg
Maximum value of SAR (measured) = 0.865 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.111 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.610 W/kg; SAR(10 g) = 0.259 W/kg
Maximum value of SAR (measured) = 0.859 W/kg



0 dB = 0.859 W/kg = -0.66 dBW/kg

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Date: 2015/4/3

WLAN802.11n(20M)_Body-worn_Back side_CH 6_Main_0mm

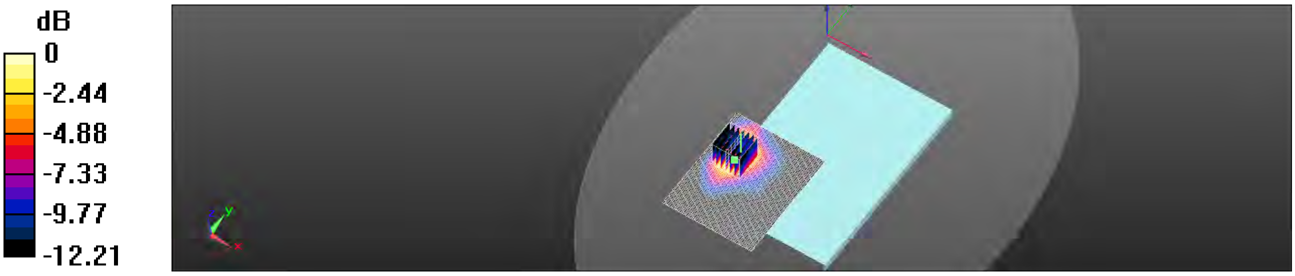
Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.21 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.573 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.742 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.54 dBW/kg

Date: 2015/4/3

WLAN802.11n(40M)_Body-worn_Back side_CH 6_Main_0mm

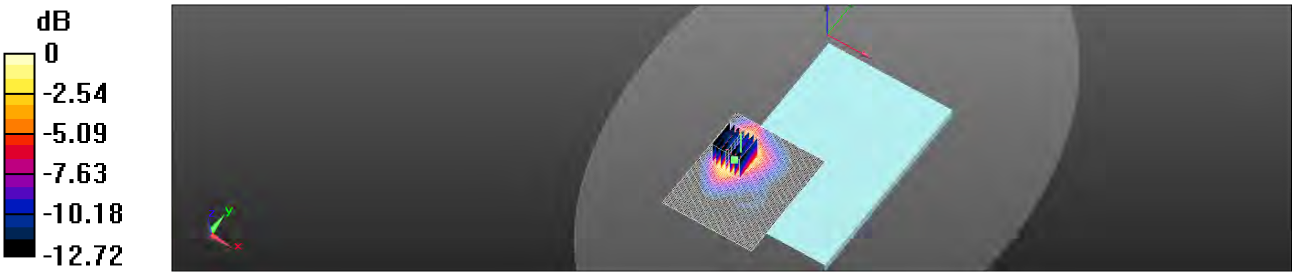
Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.26 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.391 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.47 dBW/kg

Date: 2015/4/4

WLAN802.11a 5.2G_Body-worn_Back side_CH 44_Main_0mm

Communication System: WLAN(5G); Frequency: 5220 MHz
Medium parameters used: f = 5220 MHz; σ = 5.254 S/m; ε_r = 48.161; ρ = 1000 kg/m^3
Phantom section: Flat Section

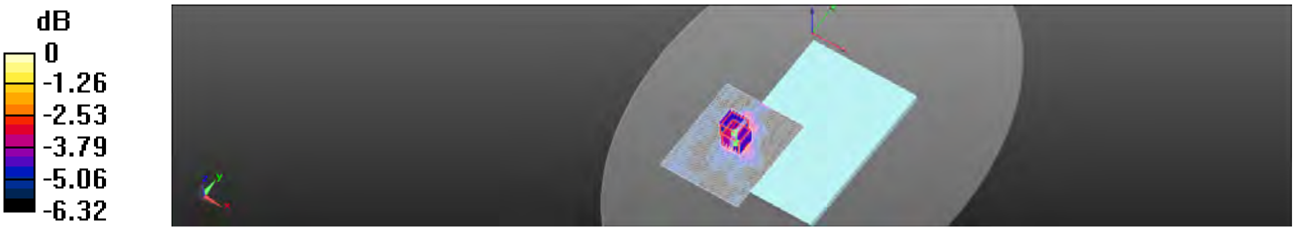
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.811 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.844 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.361 W/kg
Maximum value of SAR (measured) = 0.790 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.844 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.311 W/kg
Maximum value of SAR (measured) = 0.786 W/kg



0 dB = 0.786 W/kg = -1.05 dBW/kg

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Date: 2015/4/4

WLAN802.11n(40M) 5.2G_Body-worn_Back side_CH 46_Main_0mm

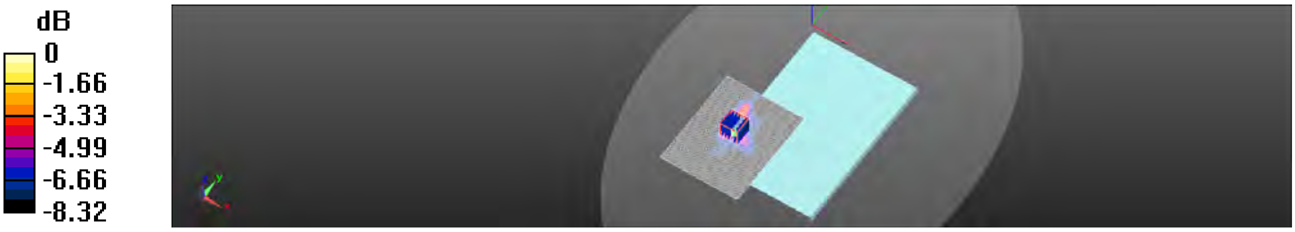
Communication System: WLAN(5G); Frequency: 5230 MHz
Medium parameters used: f = 5230 MHz; σ = 5.266 S/m; ε_r = 48.143; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.668 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.433 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 4.57 W/kg
SAR(1 g) = 0.558 W/kg; SAR(10 g) = 0.299 W/kg
Maximum value of SAR (measured) = 0.986 W/kg



0 dB = 0.986 W/kg = -0.06 dBW/kg

Date: 2015/4/4

WLAN802.11ac(40M) 5.2G_Body-worn_Back side_CH 46_Main_0mm

Communication System: WLAN(5G); Frequency: 5230 MHz
Medium parameters used: f = 5230 MHz; σ = 5.266 S/m; ε_r = 48.143; ρ = 1000 kg/m^3
Phantom section: Flat Section

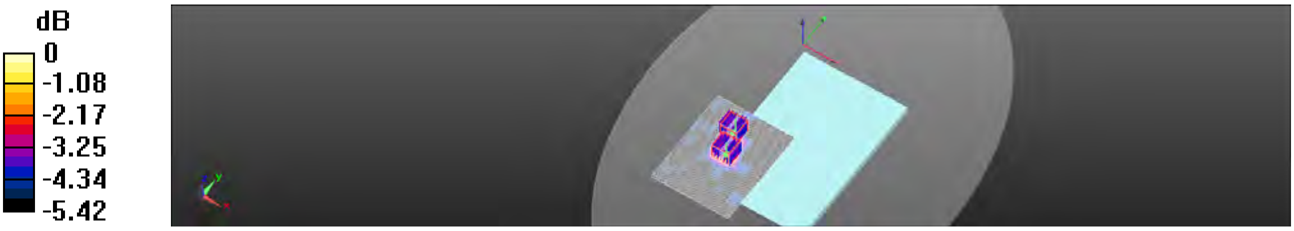
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.801 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.290 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 3.67 W/kg
SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.302 W/kg
Maximum value of SAR (measured) = 0.994 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.290 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.260 W/kg
Maximum value of SAR (measured) = 0.556 W/kg



0 dB = 0.556 W/kg = -2.55 dBW/kg

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Date: 2015/4/4

WLAN802.11ac(80M) 5.2G_Body-worn_Back side_CH 42_Main_0mm

Communication System: WLAN(5G); Frequency: 5210 MHz
Medium parameters used: f = 5210 MHz; σ = 5.243 S/m; ε_r = 48.168; ρ = 1000 kg/m^3
Phantom section: Flat Section

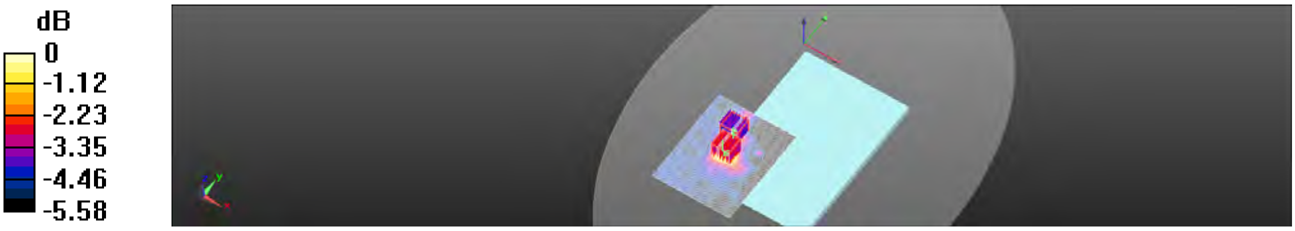
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.791 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.573 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.350 W/kg
Maximum value of SAR (measured) = 0.844 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.573 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.876 W/kg
SAR(1 g) = 0.366 W/kg; SAR(10 g) = 0.263 W/kg
Maximum value of SAR (measured) = 0.550 W/kg



0 dB = 0.550 W/kg = -2.60 dBW/kg

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Date: 2015/4/5

WLAN802.11a 5.3G_Body-worn_Back side_CH 60_Main_0mm

Communication System: WLAN(5G); Frequency: 5300 MHz
Medium parameters used: f = 5300 MHz; σ = 5.339 S/m; ε_r = 47.965; ρ = 1000 kg/m^3
Phantom section: Flat Section

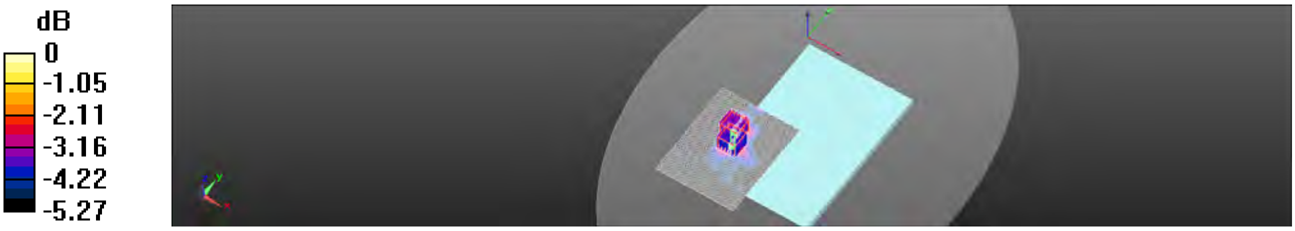
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.928 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.775 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 4.27 W/kg
SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.420 W/kg
Maximum value of SAR (measured) = 1.10 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.775 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.89 W/kg
SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.418 W/kg
Maximum value of SAR (measured) = 0.859 W/kg



0 dB = 0.859 W/kg = -0.66 dBW/kg

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Date: 2015/4/5

WLAN802.11n(40M) 5.3G_Body-worn_Back side_CH 62_Main_0mm

Communication System: WLAN(5G); Frequency: 5310 MHz
Medium parameters used: f = 5310 MHz; σ = 5.347 S/m; ε_r = 47.944; ρ = 1000 kg/m^3
Phantom section: Flat Section

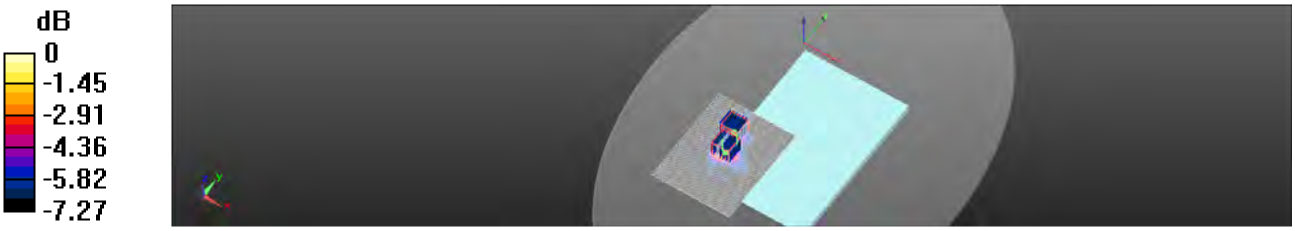
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.884 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.906 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.87 W/kg
SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.311 W/kg
Maximum value of SAR (measured) = 0.958 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.906 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.66 W/kg
SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.265 W/kg
Maximum value of SAR (measured) = 0.921 W/kg



0 dB = 0.921 W/kg = -0.36 dBW/kg

Date: 2015/4/5

WLAN802.11ac(40M) 5.3G_Body-worn_Back side_CH 54_Main_0mm

Communication System: WLAN(5G); Frequency: 5270 MHz
Medium parameters used: f = 5270 MHz; σ = 5.309 S/m; ε_r = 47.992; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY5 Configuration:

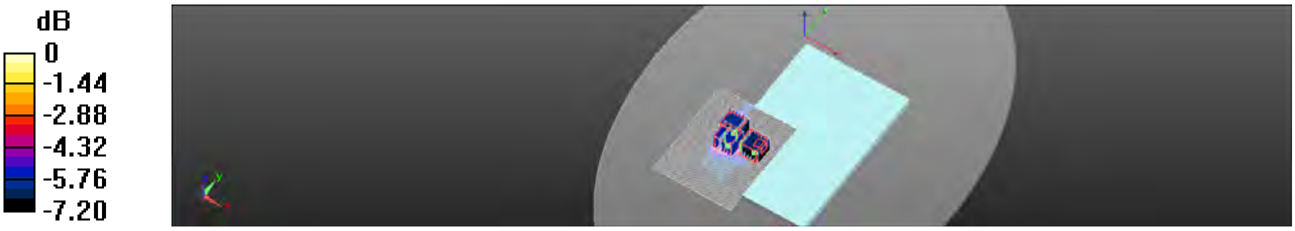
- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.709 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.962 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.288 W/kg
Maximum value of SAR (measured) = 0.749 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.962 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.505 W/kg
SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.190 W/kg
Maximum value of SAR (measured) = 0.324 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 2: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.962 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.21 W/kg
SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.256 W/kg
Maximum value of SAR (measured) = 0.865 W/kg



0 dB = 0.865 W/kg = -0.63 dBW/kg

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Date: 2015/4/5

WLAN802.11ac(80M) 5.3G_Body-worn_Back side_CH 58_Main_0mm

Communication System: WLAN(5G); Frequency: 5290 MHz
Medium parameters used: f = 5290 MHz; σ = 5.327 S/m; ε_r = 47.971; ρ = 1000 kg/m^3
Phantom section: Flat Section

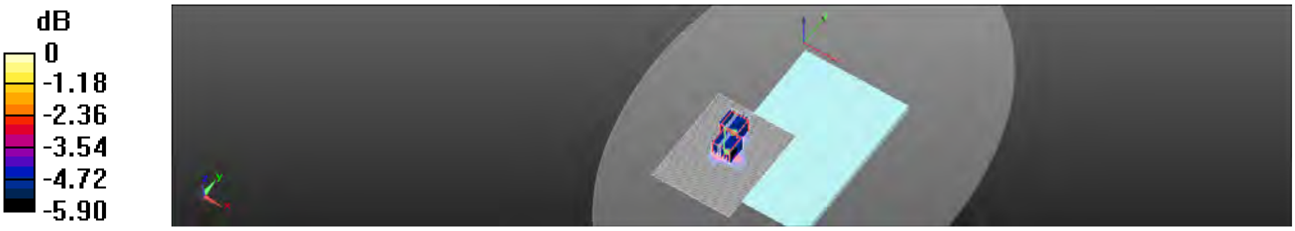
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.944 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.047 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.02 W/kg
SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.349 W/kg
Maximum value of SAR (measured) = 0.959 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.047 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.91 W/kg
SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.299 W/kg
Maximum value of SAR (measured) = 0.807 W/kg



0 dB = 0.807 W/kg = -0.93 dBW/kg

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Date: 2015/4/6

WLAN802.11a 5.6G_Body-worn_Back side_CH 140_Main_0mm

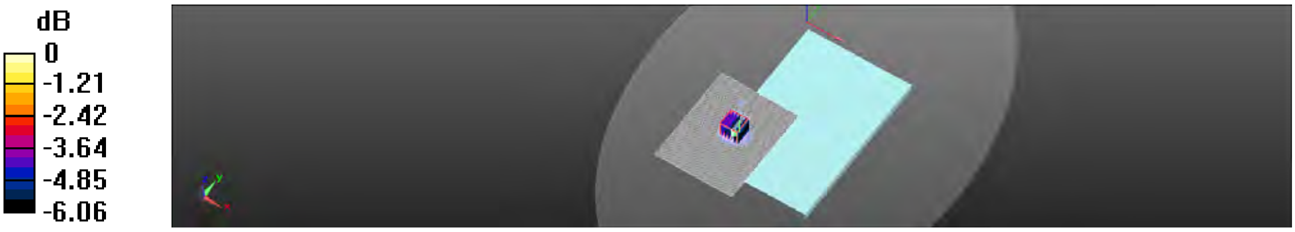
Communication System: WLAN(5G); Frequency: 5700 MHz
Medium parameters used: f = 5700 MHz; σ = 5.818 S/m; ε_r = 47.481; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.535 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.476 W/kg
Maximum value of SAR (measured) = 1.22 W/kg



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

Date: 2015/4/6

WLAN802.11n(40M) 5.6G_Body-worn_Back side_CH 134_Main_0mm

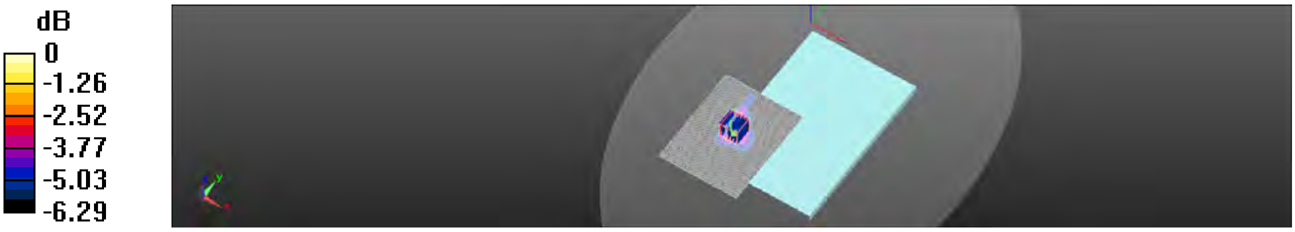
Communication System: WLAN(5G); Frequency: 5670 MHz
Medium parameters used: f = 5670 MHz; σ = 5.785 S/m; ε_r = 47.537; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.357 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 2.42 W/kg
SAR(1 g) = 0.692 W/kg; SAR(10 g) = 0.410 W/kg
Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.24 dBW/kg

Date: 2015/4/6

WLAN802.11ac(20M) 5.6G_Body-worn_Back side_CH 144_Main_0mm

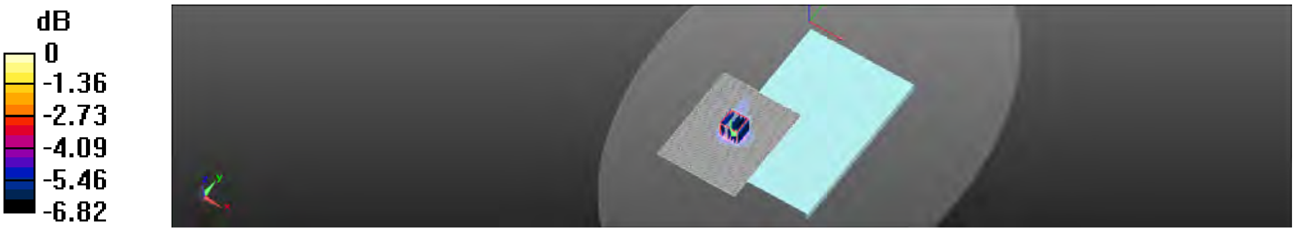
Communication System: WLAN(5G); Frequency: 5720 MHz
Medium parameters used: f = 5720 MHz; σ = 5.844 S/m; ε_r = 47.434; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.268 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 3.58 W/kg
SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.423 W/kg
Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg = 1.15 dBW/kg

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Date: 2015/4/6

WLAN802.11ac(40M) 5.6G_Body-worn_Back side_CH 102_Main_0mm

Communication System: WLAN(5G); Frequency: 5510 MHz
Medium parameters used: f = 5510 MHz; σ = 5.613 S/m; ε_r = 47.759; ρ = 1000 kg/m^3
Phantom section: Flat Section

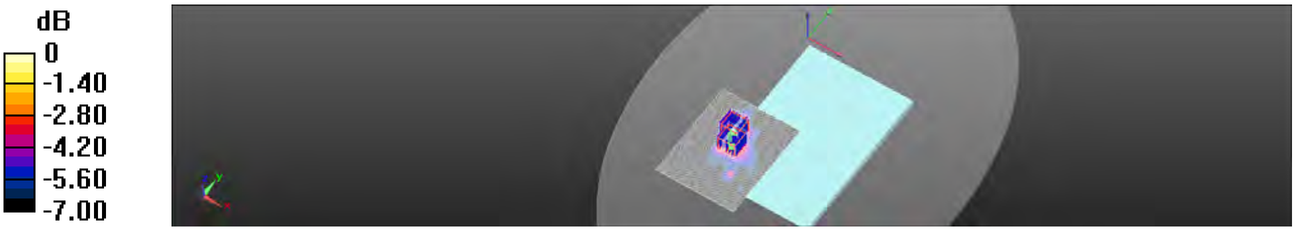
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.423 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.16 W/kg
SAR(1 g) = 0.680 W/kg; SAR(10 g) = 0.384 W/kg
Maximum value of SAR (measured) = 1.11 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.423 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.333 W/kg
Maximum value of SAR (measured) = 0.942 W/kg



0 dB = 0.942 W/kg = -0.26 dBW/kg

Date: 2015/4/6

WLAN802.11ac(80M) 5.6G_Body-worn_Back side_CH 138_Main_0mm

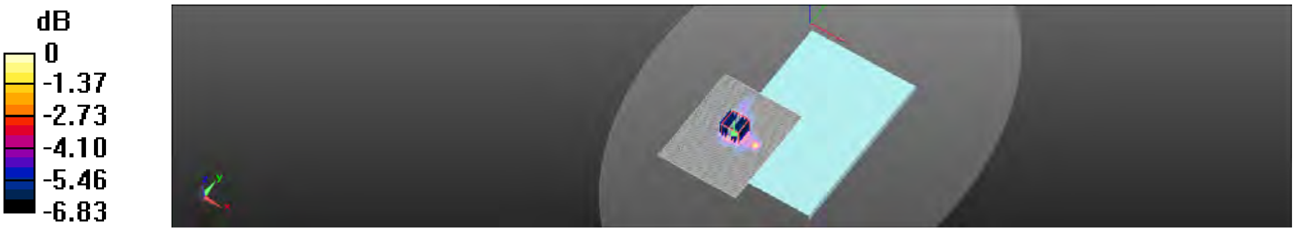
Communication System: WLAN(5G); Frequency: 5690 MHz
Medium parameters used: f = 5690 MHz; σ = 5.809 S/m; ε_r = 47.505; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.144 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.01 W/kg
SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.363 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



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

Date: 2015/4/7

WLAN802.11a 5.8G_Body-worn_Back side_CH 153_Main_0mm

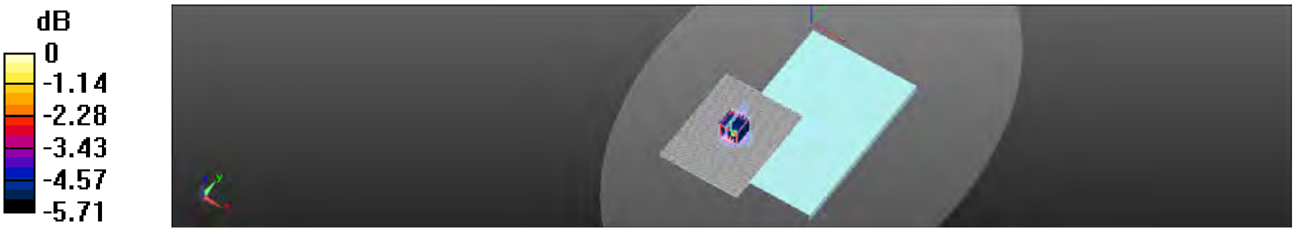
Communication System: WLAN(5G); Frequency: 5765 MHz
Medium parameters used: f = 5765 MHz; σ = 5.904 S/m; ε_r = 47.331; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: Bodydx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.989 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.941 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.65 W/kg
SAR(1 g) = 0.712 W/kg; SAR(10 g) = 0.401 W/kg
Maximum value of SAR (measured) = 0.995 W/kg



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

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Date: 2015/4/7

WLAN802.11n(40M) 5.8G_Body-worn_Back side_CH 151_Main_0mm

Communication System: WLAN(5G); Frequency: 5755 MHz
Medium parameters used: f = 5755 MHz; σ = 5.892 S/m; ε_r = 47.352; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

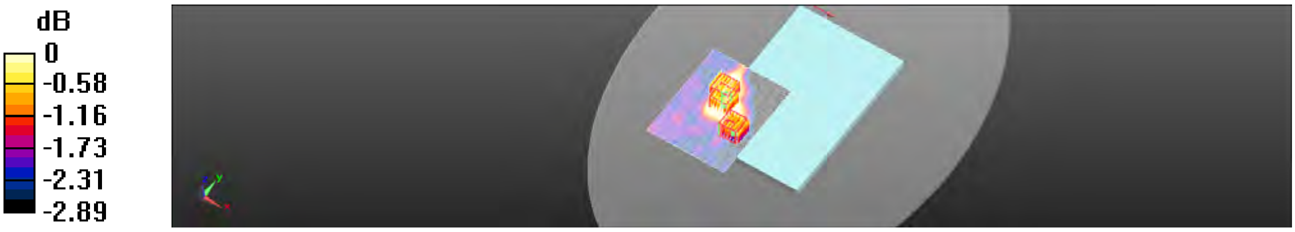
- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: Bodydx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.02 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.832 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.79 W/kg
SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.401 W/kg
Maximum value of SAR (measured) = 1.14 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.832 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.83 W/kg
SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.355 W/kg
Maximum value of SAR (measured) = 1.11 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 2: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.832 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.356 W/kg
SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 0.356 W/kg



0 dB = 0.356 W/kg = -4.48 dBW/kg

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Date: 2015/4/7

WLAN802.11ac(40M) 5.8G_Body-worn_Back side_CH 151_Main_0mm

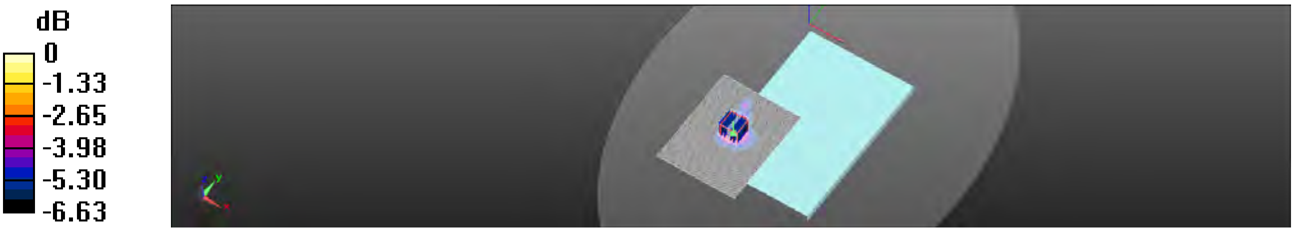
Communication System: WLAN(5G); Frequency: 5755 MHz
Medium parameters used: f = 5755 MHz; σ = 5.892 S/m; ε_r = 47.352; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: Bodydx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.14 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.488 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 2.33 W/kg
SAR(1 g) = 0.674 W/kg; SAR(10 g) = 0.392 W/kg
Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

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Date: 2015/4/7

WLAN802.11ac(80M) 5.8G_Body-worn_Back side_CH 155_Main_0mm

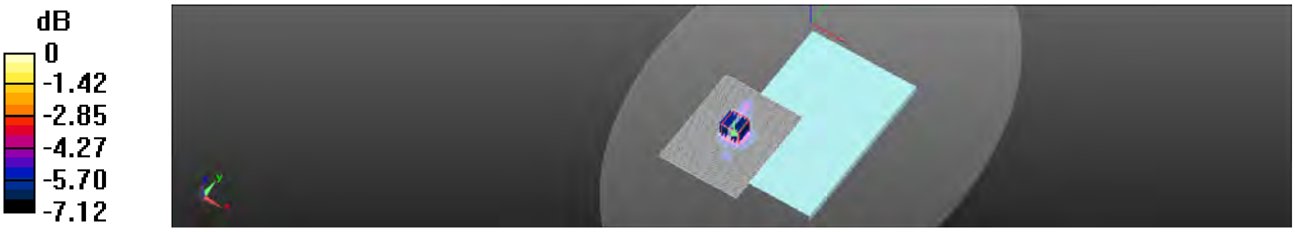
Communication System: WLAN(5G); Frequency: 5775 MHz
Medium parameters used: f = 5775 MHz; σ = 5.917 S/m; ε_r = 47.314; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: Bodydx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.494 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 2.63 W/kg
SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.392 W/kg
Maximum value of SAR (measured) = 1.25 W/kg



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

Date: 2015/4/3

WLAN802.11n(20M)_Body-worn_Lap-held_CH 6_Main_0mm_repeated with 2nd battery

Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

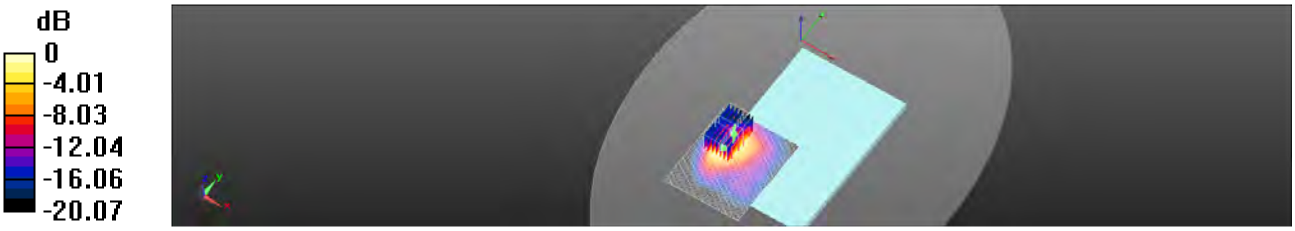
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.27 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.322 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.749 W/kg; SAR(10 g) = 0.371 W/kg
Maximum value of SAR (measured) = 1.17 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.322 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.327 W/kg
Maximum value of SAR (measured) = 1.14 W/kg



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

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Date: 2015/4/4

WLAN802.11a 5.2G_Body-worn_Lap-held_CH 44_Main_0mm_repeated with 2nd battery

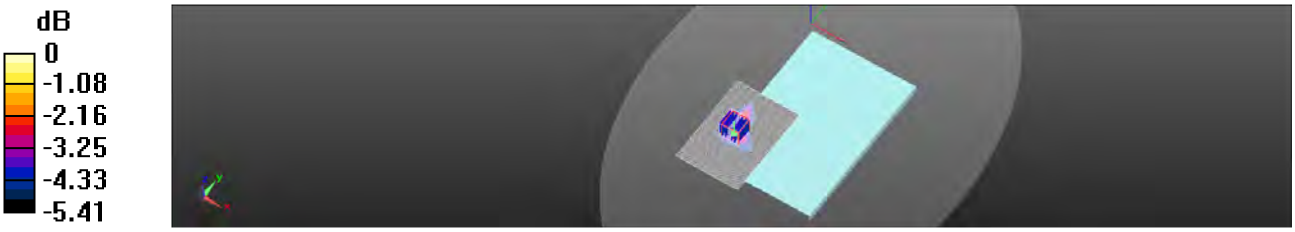
Communication System: WLAN(5G); Frequency: 5220 MHz
Medium parameters used: f = 5220 MHz; σ = 5.254 S/m; ε_r = 48.161; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.662 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.386 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.73 W/kg
SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.356 W/kg
Maximum value of SAR (measured) = 0.794 W/kg



0 dB = 0.794 W/kg = -1.00 dBW/kg

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Date: 2015/4/5

WLAN802.11a 5.3G_Body-worn_Lap-held_CH 60_Main_0mm_repeated with 2nd battery

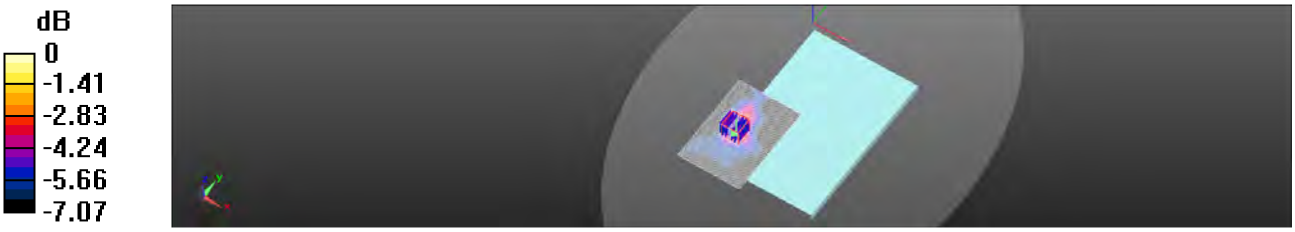
Communication System: WLAN(5G); Frequency: 5300 MHz
Medium parameters used: f = 5300 MHz; σ = 5.339 S/m; ε_r = 47.965; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.854 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.131 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.19 W/kg
SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.399 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



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

Date: 2015/4/6

WLAN802.11a 5.6G_Body-worn_Lap-held_CH 140_Main_0mm_repeated with 2nd battery

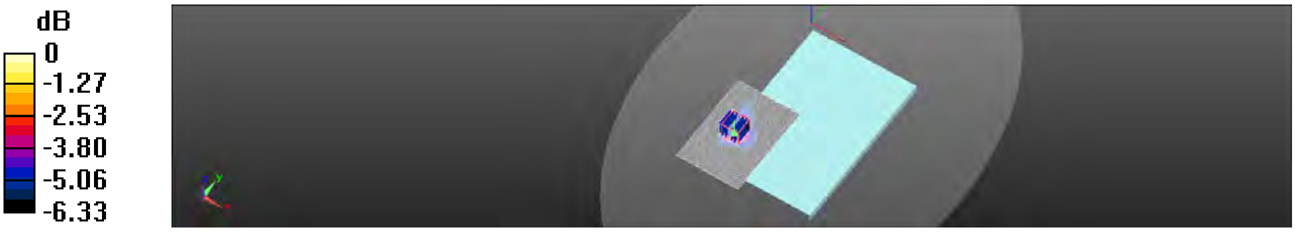
Communication System: WLAN(5G); Frequency: 5700 MHz
Medium parameters used: f = 5700 MHz; σ = 5.818 S/m; ε_r = 47.481; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.821 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.19 W/kg
SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.424 W/kg
Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Date: 2015/4/7

WLAN802.11a 5.8G_Body-worn_Lap-held_CH 153_Main_0mm_repeated with 2nd battery

Communication System: WLAN(5G); Frequency: 5765 MHz
Medium parameters used: f = 5765 MHz; σ = 5.904 S/m; ε_r = 47.331; ρ = 1000 kg/m^3
Phantom section: Flat Section

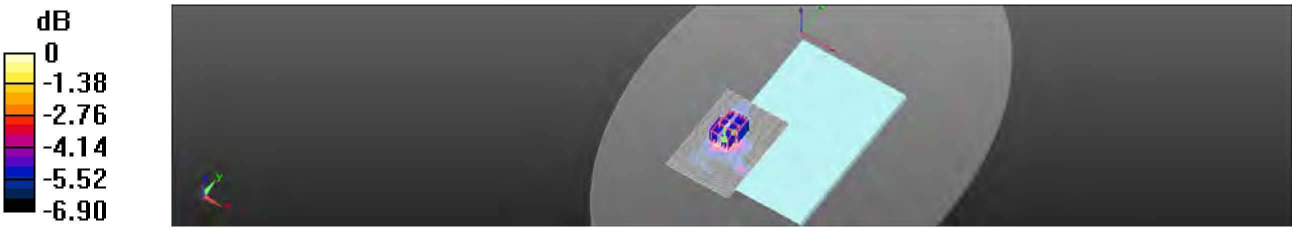
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.13 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.742 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.416 W/kg
Maximum value of SAR (measured) = 1.14 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.742 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 4.19 W/kg
SAR(1 g) = 0.625 W/kg; SAR(10 g) = 0.367 W/kg
Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

Date: 2015/4/3

WLAN802.11b_Body-worn_Back side_CH 6_Aux_0mm

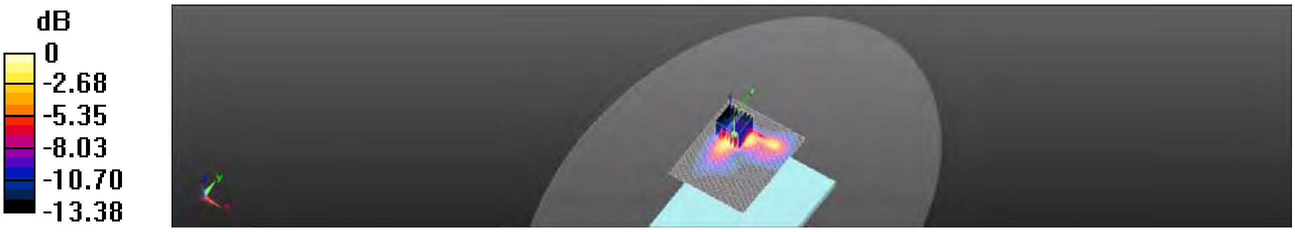
Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.21 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.025 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.46 W/kg
SAR(1 g) = 0.771 W/kg; SAR(10 g) = 0.372 W/kg
Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.43 dBW/kg

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Date: 2015/4/3

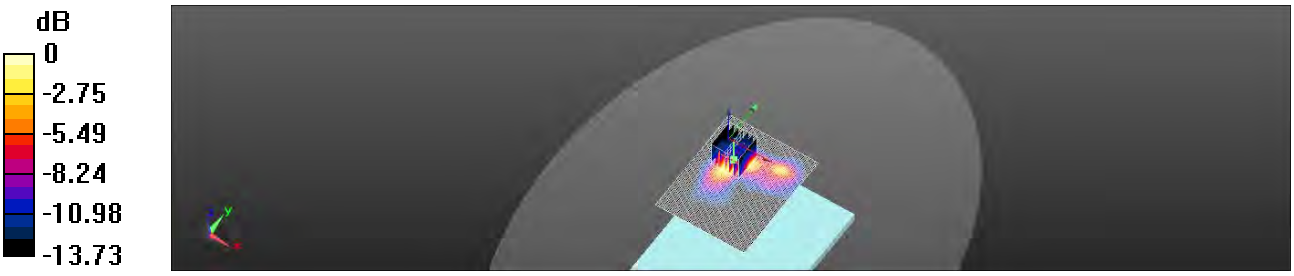
WLAN802.11g_Body-worn_Back side_CH 6_Aux_0mm
Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.52 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.424 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 0.993 W/kg; SAR(10 g) = 0.473 W/kg
Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

Date: 2015/4/3

WLAN802.11n(20M)_Body-worn_Back side_CH 6_Aux_0mm

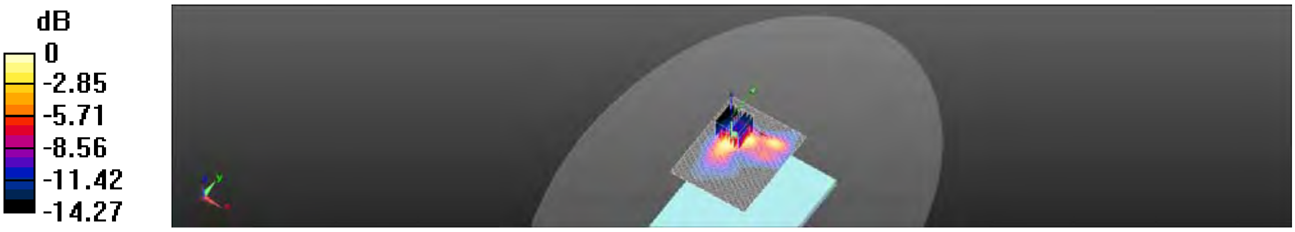
Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.39 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.411 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 0.923 W/kg; SAR(10 g) = 0.442 W/kg
Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg = 1.20 dBW/kg

Date: 2015/4/3

WLAN802.11n(40M)_Body-worn_Back side_CH 6_Aux_0mm

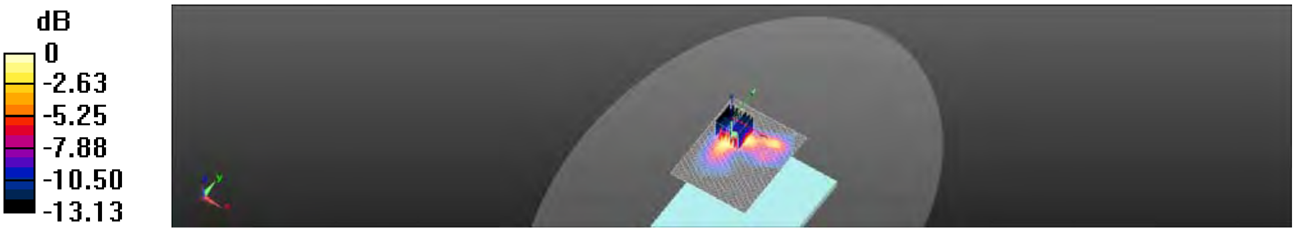
Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.657 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 0.918 W/kg; SAR(10 g) = 0.441 W/kg
Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg = 1.22 dBW/kg

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Date: 2015/4/4

WLAN802.11a 5.2G_Body-worn_Back side_CH 44_Aux_0mm

Communication System: WLAN(5G); Frequency: 5220 MHz
Medium parameters used: f = 5220 MHz; σ = 5.254 S/m; ε_r = 48.161; ρ = 1000 kg/m^3
Phantom section: Flat Section

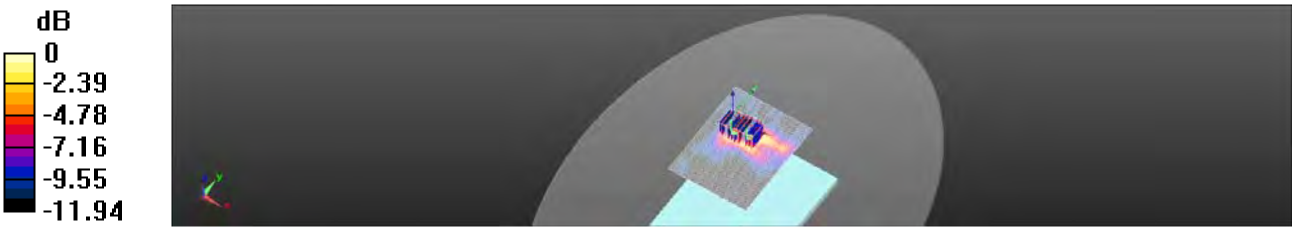
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.61 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.544 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.65 W/kg
SAR(1 g) = 0.902 W/kg; SAR(10 g) = 0.438 W/kg
Maximum value of SAR (measured) = 1.62 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.544 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 4.42 W/kg
SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.372 W/kg
Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.63 W/kg = 2.13 dBW/kg

Date: 2015/4/4

WLAN802.11n(40M) 5.2G_Body-worn_Back side_CH 46_Aux_0mm

Communication System: WLAN(5G); Frequency: 5230 MHz
Medium parameters used: f = 5230 MHz; σ = 5.266 S/m; ε_r = 49.143; ρ = 1000 kg/m^3
Phantom section: Flat Section

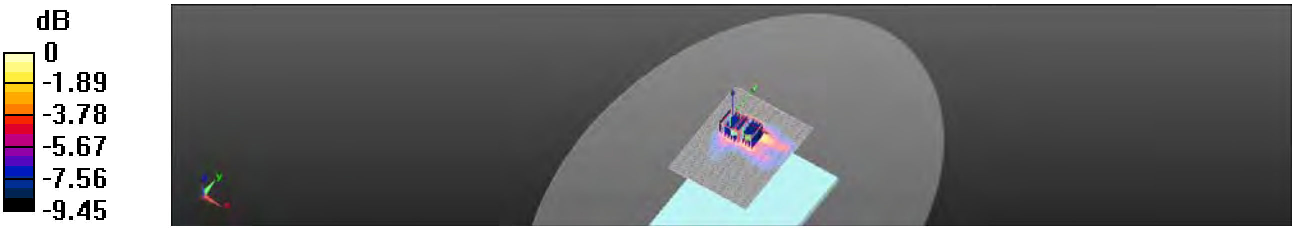
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.674 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.87 W/kg
SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.409 W/kg
Maximum value of SAR (measured) = 1.28 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.674 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 3.82 W/kg
SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.396 W/kg
Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg = 1.61 dBW/kg

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Date: 2015/4/4

WLAN802.11ac(40M) 5.2G_Body-worn_Back side_CH 46_Aux_0mm

Communication System: WLAN(5G); Frequency: 5230 MHz
Medium parameters used: f = 5230 MHz; σ = 5.266 S/m; ε_r = 48.143; ρ = 1000 kg/m^3
Phantom section: Flat Section

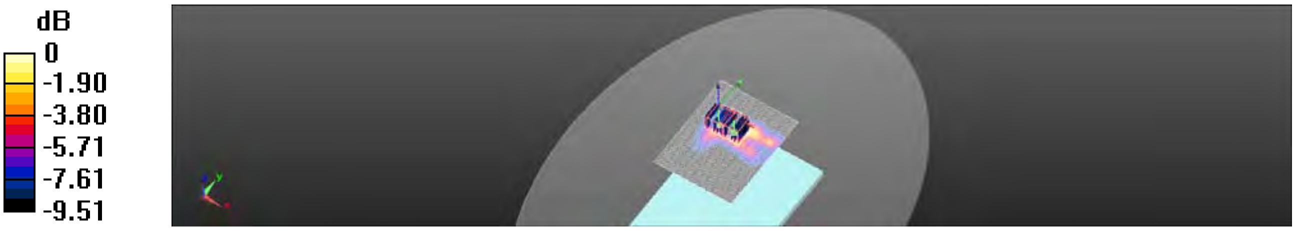
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.38 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.628 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 3.61 W/kg
SAR(1 g) = 0.805 W/kg; SAR(10 g) = 0.370 W/kg
Maximum value of SAR (measured) = 1.56 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.628 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 2.73 W/kg
SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.375 W/kg
Maximum value of SAR (measured) = 1.25 W/kg



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

Date: 2015/4/4

WLAN802.11ac(80M) 5.2G_Body-worn_Back side_CH 42_Aux_0mm

Communication System: WLAN(5G); Frequency: 5210 MHz
Medium parameters used: f = 5210 MHz; σ = 5.243 S/m; ε_r = 48.168; ρ = 1000 kg/m^3
Phantom section: Flat Section

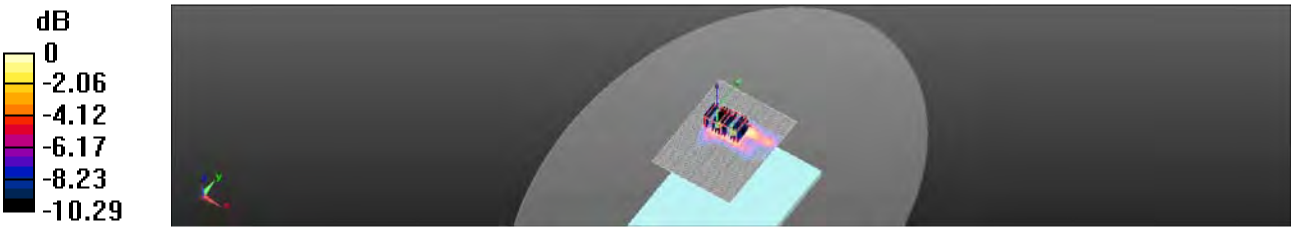
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.54 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.868 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 3.77 W/kg
SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.349 W/kg
Maximum value of SAR (measured) = 1.65 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.868 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.95 W/kg
SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.397 W/kg
Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.45 dBW/kg

Date: 2015/4/5

WLAN802.11a 5.3G_Body-worn_Back side_CH 60_Aux_0mm

Communication System: WLAN(5G); Frequency: 5300 MHz
Medium parameters used: f = 5300 MHz; $\sigma = 5.339$ S/m; $\varepsilon_r = 47.965$; $\rho = 1000$ kg/m^3
Phantom section: Flat Section

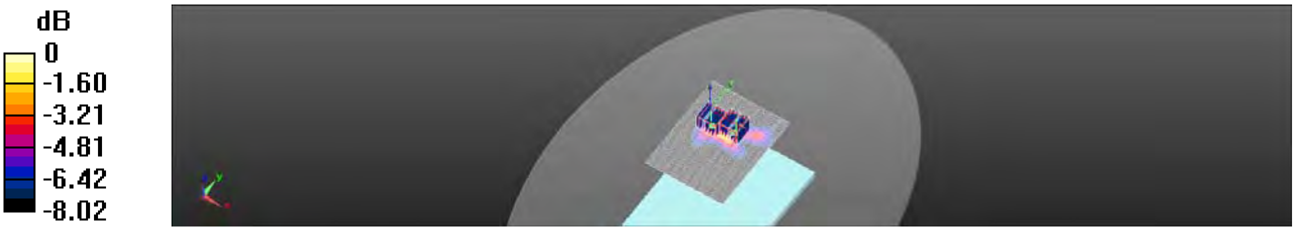
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.69 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.617 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 4.44 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.506 W/kg
Maximum value of SAR (measured) = 1.92 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.617 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 4.03 W/kg
SAR(1 g) = 0.887 W/kg; SAR(10 g) = 0.502 W/kg
Maximum value of SAR (measured) = 1.58 W/kg



0 dB = 1.58 W/kg = 1.99 dBW/kg

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Date: 2015/4/5

WLAN802.11n(40M) 5.3G_Body-worn_Back side_CH 62_Aux_0mm

Communication System: WLAN(5G); Frequency: 5310 MHz
Medium parameters used: f = 5310 MHz; σ = 5.347 S/m; ε_r = 47.944; ρ = 1000 kg/m^3
Phantom section: Flat Section

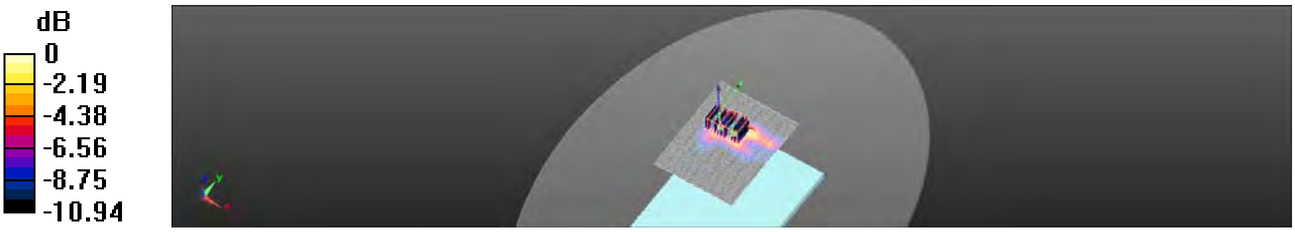
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.53 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.694 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 4.75 W/kg
SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.359 W/kg
Maximum value of SAR (measured) = 1.88 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.694 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 2.80 W/kg
SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.378 W/kg
Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg = 1.60 dBW/kg

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Date: 2015/4/5

WLAN802.11ac(40M) 5.3G_Body-worn_Back side_CH 54_Aux_0mm

Communication System: WLAN(5G); Frequency: 5270 MHz
Medium parameters used: f = 5270 MHz; σ = 5.309 S/m; ε_r = 47.992; ρ = 1000 kg/m^3
Phantom section: Flat Section

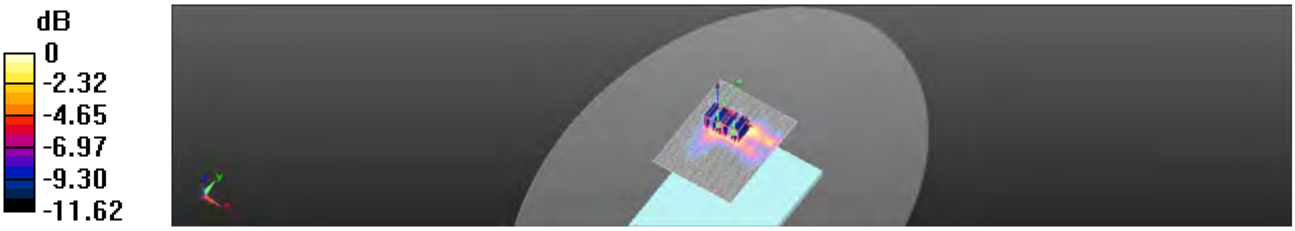
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.30 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.089 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 3.08 W/kg
SAR(1 g) = 0.700 W/kg; SAR(10 g) = 0.287 W/kg
Maximum value of SAR (measured) = 1.40 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.089 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 2.26 W/kg
SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.294 W/kg
Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.46 dBW/kg

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Date: 2015/4/5

WLAN802.11ac(80M) 5.3G_Body-worn_Back side_CH 58_Aux_0mm

Communication System: WLAN(5G); Frequency: 5290 MHz
Medium parameters used: f = 5290 MHz; σ = 5.327 S/m; ε_r = 47.971; ρ = 1000 kg/m^3
Phantom section: Flat Section

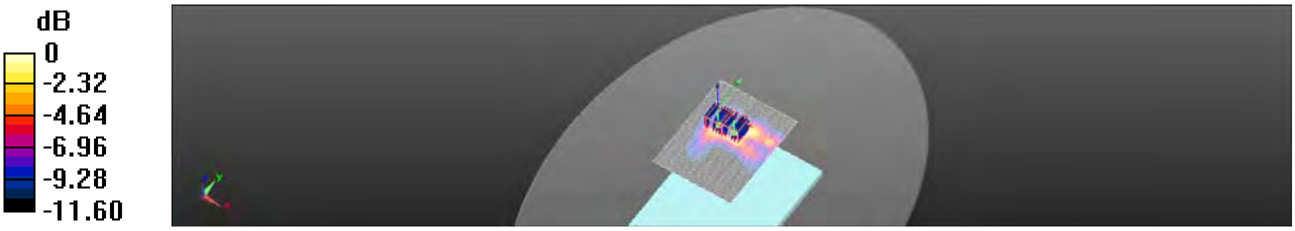
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.601 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.57 W/kg
SAR(1 g) = 0.768 W/kg; SAR(10 g) = 0.306 W/kg
Maximum value of SAR (measured) = 1.59 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.601 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.76 W/kg
SAR(1 g) = 0.680 W/kg; SAR(10 g) = 0.312 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



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

Date: 2015/4/6

WLAN802.11a 5.6G_Body-worn_Back side_CH 140_Aux_0mm

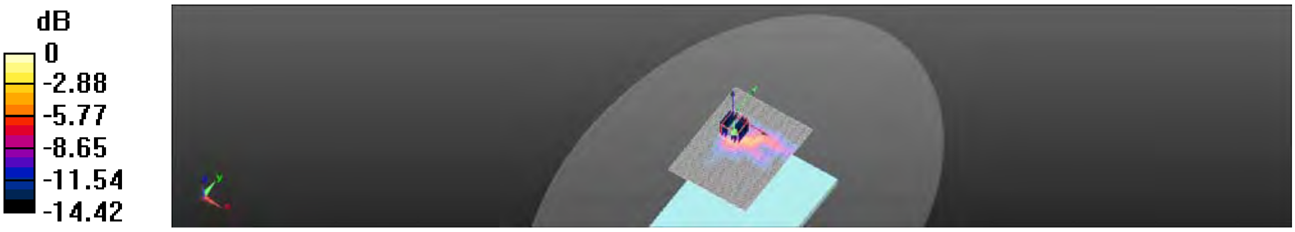
Communication System: WLAN(5G); Frequency: 5700 MHz
Medium parameters used: f = 5700 MHz; σ = 5.818 S/m; ε_r = 47.481; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 3.04 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.166 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 6.50 W/kg
SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.406 W/kg
Maximum value of SAR (measured) = 2.66 W/kg



0 dB = 2.66 W/kg = 4.25 dBW/kg

Date: 2015/4/6

WLAN802.11n(40M) 5.6G_Body-worn_Back side_CH 134_Aux_0mm

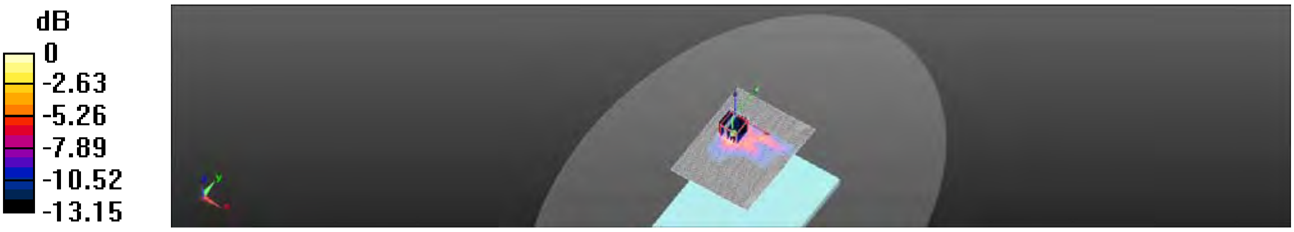
Communication System: WLAN(5G); Frequency: 5670 MHz
Medium parameters used: f = 5670 MHz; σ = 5.785 S/m; ε_r = 47.537; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.90 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.004 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 5.94 W/kg
SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.400 W/kg
Maximum value of SAR (measured) = 2.45 W/kg



0 dB = 2.45 W/kg = 3.90 dBW/kg

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Date: 2015/4/6

WLAN802.11ac(20M) 5.6G_Body-worn_Back side_CH 144_Aux_0mm

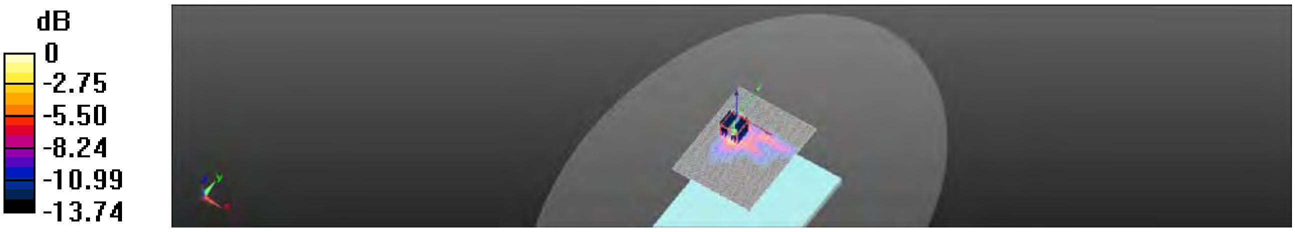
Communication System: WLAN(5G); Frequency: 5720 MHz
Medium parameters used: f = 5720 MHz; σ = 5.844 S/m; ε_r = 47.434; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.05 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.519 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 6.61 W/kg
SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.411 W/kg
Maximum value of SAR (measured) = 2.58 W/kg



0 dB = 2.58 W/kg = 4.11 dBW/kg

Date: 2015/4/6

WLAN802.11ac(40M) 5.6G_Body-worn_Back side_CH 134_Aux_0mm

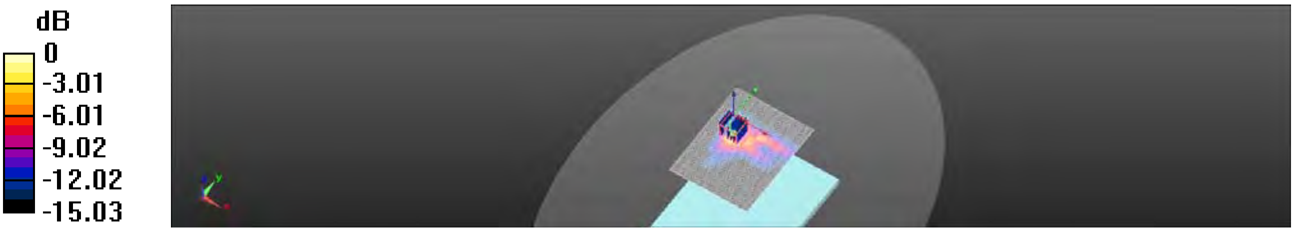
Communication System: WLAN(5G); Frequency: 5670 MHz
Medium parameters used: f = 5670 MHz; σ = 5.785 S/m; ε_r = 47.537; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.46 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.940 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 6.36 W/kg
SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.406 W/kg
Maximum value of SAR (measured) = 2.66 W/kg



0 dB = 2.66 W/kg = 4.25 dBW/kg

Date: 2015/4/6

WLAN802.11ac(80M) 5.6G_Body-worn_Back side_CH 138_Aux_0mm

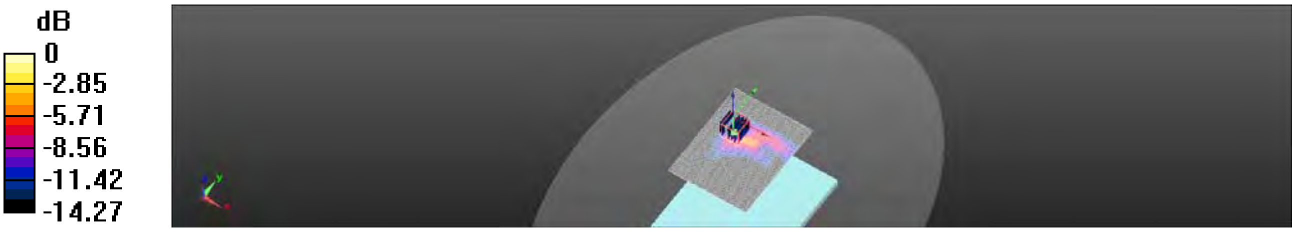
Communication System: WLAN(5G); Frequency: 5690 MHz
Medium parameters used: f = 5690 MHz; σ = 5.809 S/m; ε_r = 47.505; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.52 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.169 V/m; Power Drift =0.13 dB
Peak SAR (extrapolated) = 6.56 W/kg
SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.407 W/kg
Maximum value of SAR (measured) = 2.73 W/kg



0 dB = 2.73 W/kg = 4.36 dBW/kg

Date: 2015/4/7

WLAN802.11a 5.8G_Body-worn_Back side_CH 157_Aux_0mm

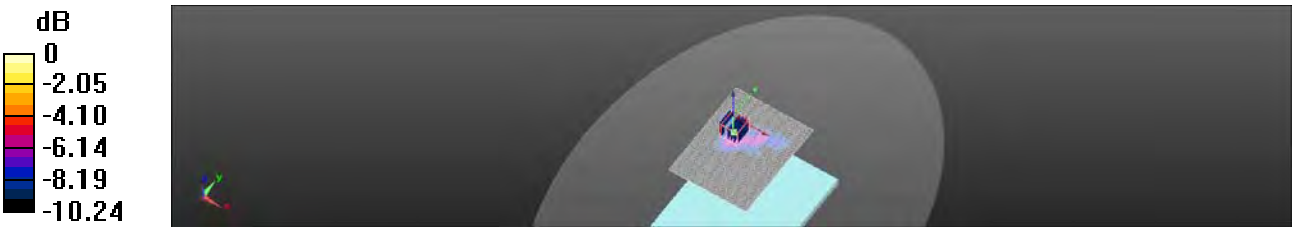
Communication System: WLAN(5G); Frequency: 5785 MHz
Medium parameters used: f = 5785 MHz; σ = 5.931 S/m; ε_r = 47.302; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: Bodydx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.83 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.394 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 8.40 W/kg
SAR(1 g) = 1.46 W/kg; SAR(10 g) = 0.573 W/kg
Maximum value of SAR (measured) = 2.76 W/kg



0 dB = 2.76 W/kg = 4.42 dBW/kg

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Date: 2015/4/7

WLAN802.11n(40M) 5.8G_Body-worn_Back side_CH 151_Aux_0mm

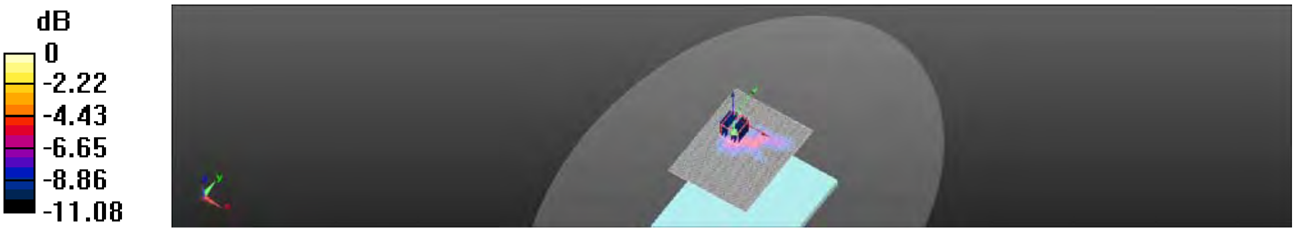
Communication System: WLAN(5G); Frequency: 5755 MHz
Medium parameters used: f = 5755 MHz; σ = 5.892 S/m; ε_r = 47.352; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: Bodydx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.71 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.046 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 7.26 W/kg
SAR(1 g) = 1.43 W/kg; SAR(10 g) = 0.532 W/kg
Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

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Date: 2015/4/7

WLAN802.11ac(40M) 5.8G_Body-worn_Back side_CH 159_Aux_0mm

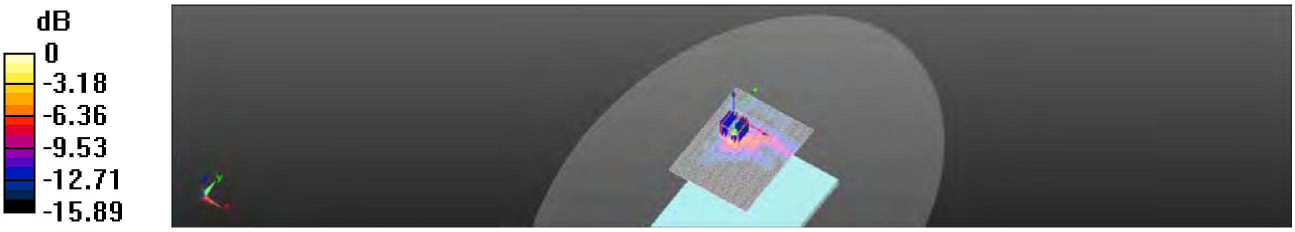
Communication System: WLAN(5G); Frequency: 5795 MHz
Medium parameters used: f = 5795 MHz; σ = 5.942 S/m; ε_r = 47.272; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: Bodydx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.79 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.784 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 6.70 W/kg
SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 2.65 W/kg



0 dB = 2.65 W/kg = 4.23 dBW/kg

Date: 2015/4/7

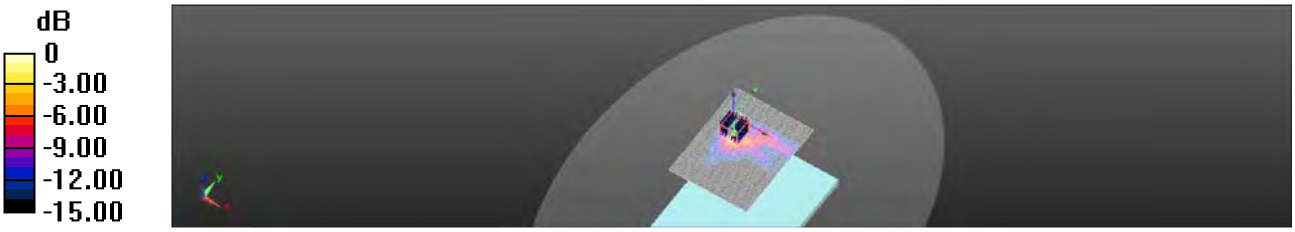
WLAN802.11ac(80M) 5.8G_Body-worn_Back side_CH 155_Aux_0mm

Communication System: WLAN(5G); Frequency: 5775 MHz
Medium parameters used: f = 5775 MHz; σ = 5.917 S/m; ε_r = 47.314; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:
- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: Bodydx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 3.12 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.779 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 6.73 W/kg
SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.415 W/kg
Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

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Date: 2015/4/3

WLAN802.11g_Body-worn_Lap-held_CH 6_Aux_0mm_repeated with 2nd battery

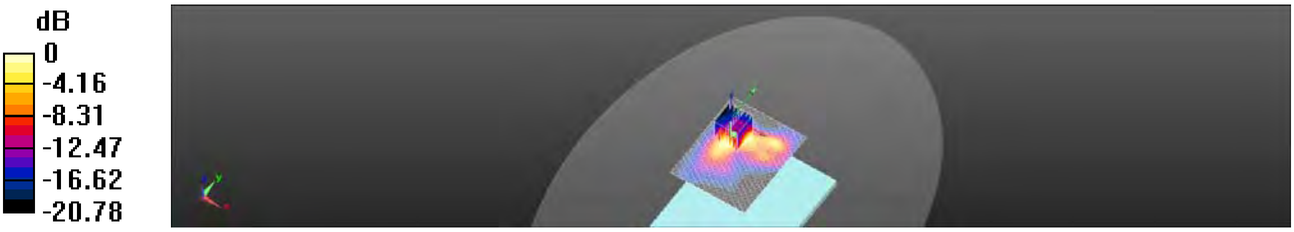
Communication System: WLAN(2.45G); Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 1.872 S/m; ε_r = 53.592; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.47 W/kg

Configuration/BODY/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.819 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.90 W/kg
SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.436 W/kg
Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

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Date: 2015/4/4

WLAN802.11a 5.2G_Body-worn_Lap-held_CH 44_Aux_0mm_repeated with 2nd battery

Communication System: WLAN(5G); Frequency: 5220 MHz
Medium parameters used: f = 5220 MHz; σ = 5.254 S/m; ε_r = 48.161; ρ = 1000 kg/m^3
Phantom section: Flat Section

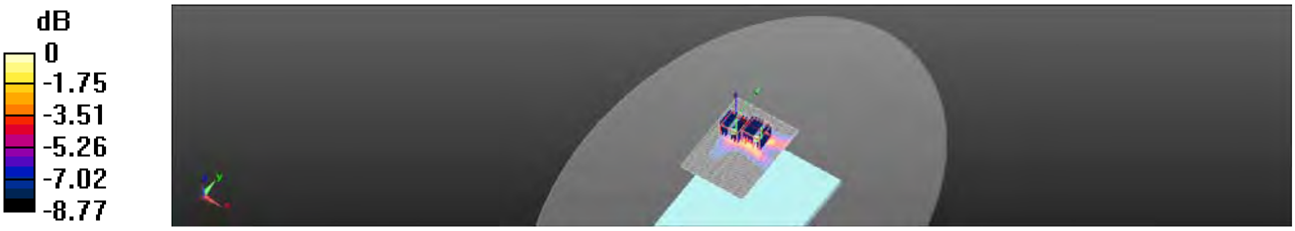
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x111x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.39 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.047 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.87 W/kg
SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.402 W/kg
Maximum value of SAR (measured) = 1.33 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.047 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.11 W/kg
SAR(1 g) = 0.729 W/kg; SAR(10 g) = 0.346 W/kg
Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg = 1.22 dBW/kg

Date: 2015/4/5

WLAN802.11a 5.3G_Body-worn_Lap-held_CH 60_Aux_0mm_repeated with 2nd battery

Communication System: WLAN(5G); Frequency: 5300 MHz
Medium parameters used: f = 5300 MHz; σ = 5.339 S/m; ε_r = 47.965; ρ = 1000 kg/m^3
Phantom section: Flat Section

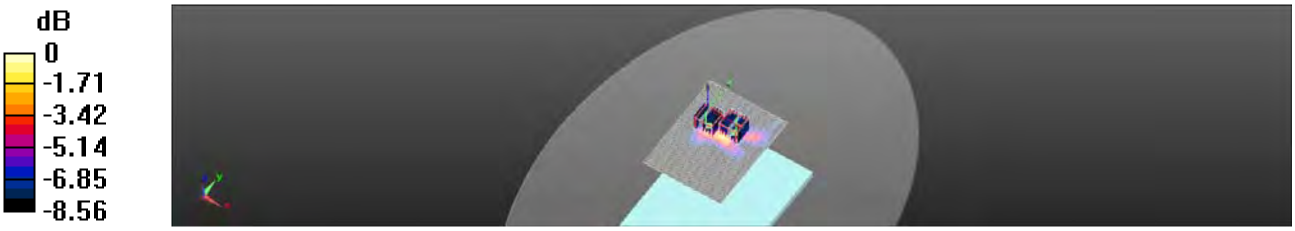
DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.65 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.147 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 3.58 W/kg
SAR(1 g) = 0.921 W/kg; SAR(10 g) = 0.415 W/kg
Maximum value of SAR (measured) = 1.48 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.147 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 3.59 W/kg
SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.426 W/kg
Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

Date: 2015/4/6

WLAN802.11a 5.6G_Body-worn_Lap-held_CH 140_Aux_0mm_repeated with 2nd battery

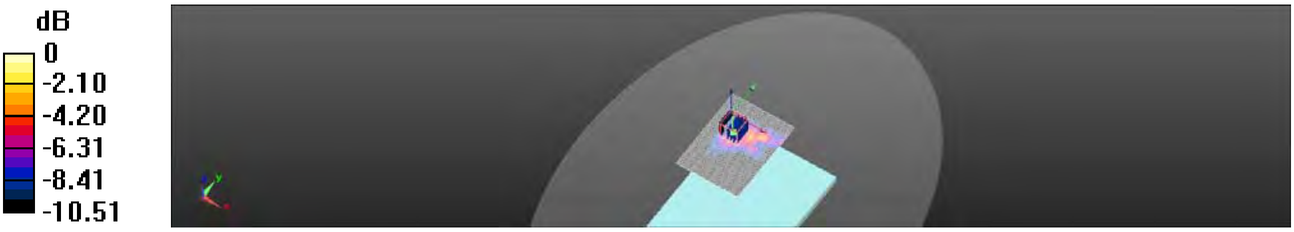
Communication System: WLAN(5G); Frequency: 5700 MHz
Medium parameters used: f = 5700 MHz; σ = 5.818 S/m; ε_r = 47.481; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (81x111x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.23 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.815 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 7.31 W/kg
SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.523 W/kg
Maximum value of SAR (measured) = 2.66 W/kg



0 dB = 2.66 W/kg = 4.25 dBW/kg

Date: 2015/4/7

WLAN802.11a 5.8G_Body-worn_Lap-held_CH 157_Aux_0mm_repeated with 2nd battery

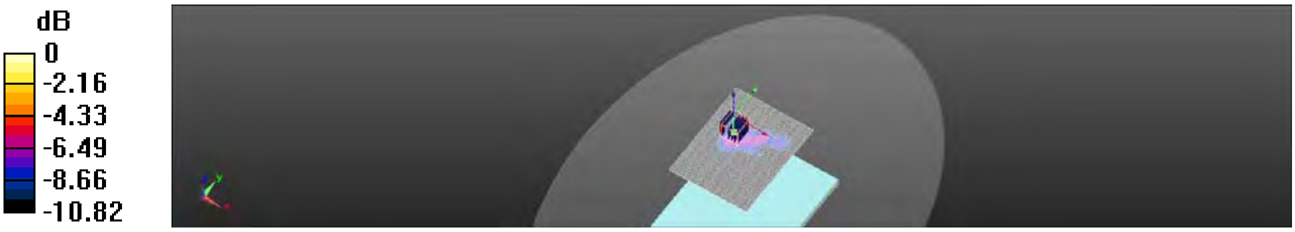
Communication System: WLAN(5G); Frequency: 5785 MHz
Medium parameters used: f = 5785 MHz; σ = 5.931 S/m; ε_r = 47.302; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.68 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.357 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 7.63 W/kg
SAR(1 g) = 1.41 W/kg; SAR(10 g) = 0.536 W/kg
Maximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg

6. SAR System Performance Verification

Date: 2015/4/14

Dipole 750 MHz_SN:1015

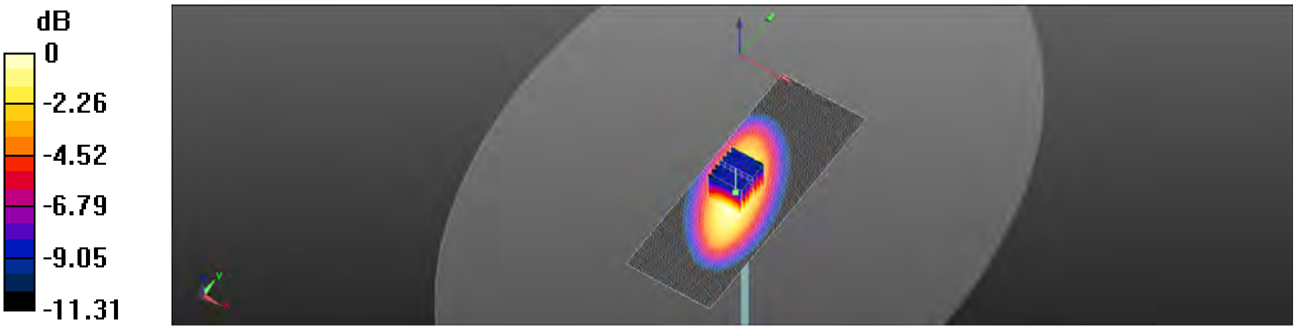
Communication System: CW; Frequency: 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.973 S/m; ε_r = 54.798; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.29, 10.29, 10.29); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 2.78 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.31 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.33 W/kg
SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.51 W/kg
Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

Date: 2015/4/12

Dipole 835 MHz_SN:4d063_1

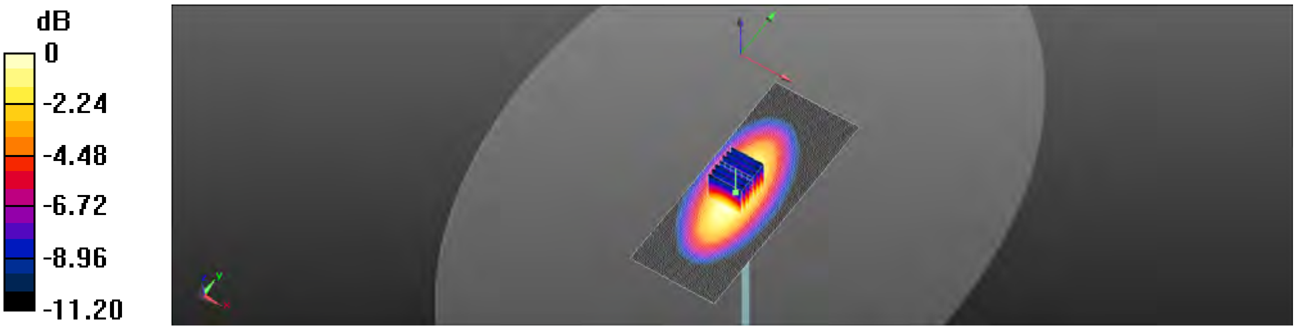
Communication System: CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.967 S/m; ε_r = 54.344; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x131x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 3.01 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.60 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.61 W/kg
SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.52 W/kg
Maximum value of SAR (measured) = 3.03 W/kg



0 dB = 3.03 W/kg = 4.81 dBW/kg

Date: 2015/4/13

Dipole 835 MHz_SN:4d063_2

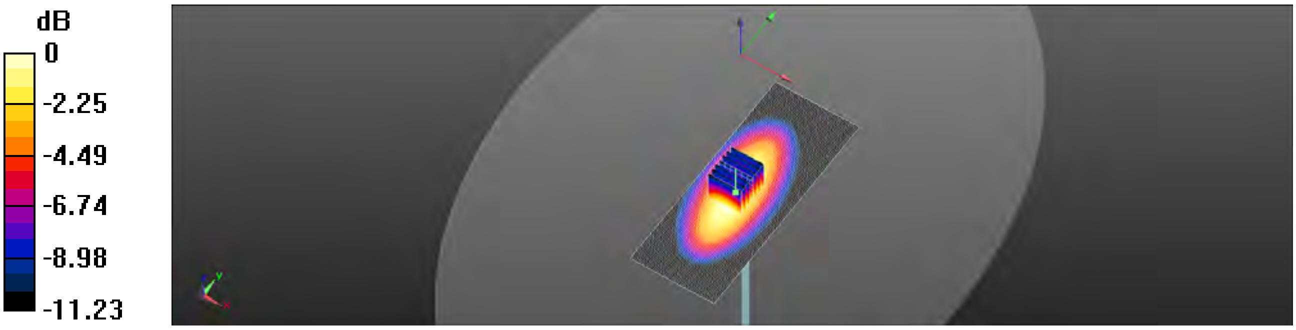
Communication System: CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.971 S/m; ε_r = 54.123; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(10.32, 10.32, 10.32); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x131x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 3.01 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.47 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 3.63 W/kg
SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.51 W/kg
Maximum value of SAR (measured) = 3.04 W/kg



0 dB = 3.04 W/kg = 4.84 dBW/kg

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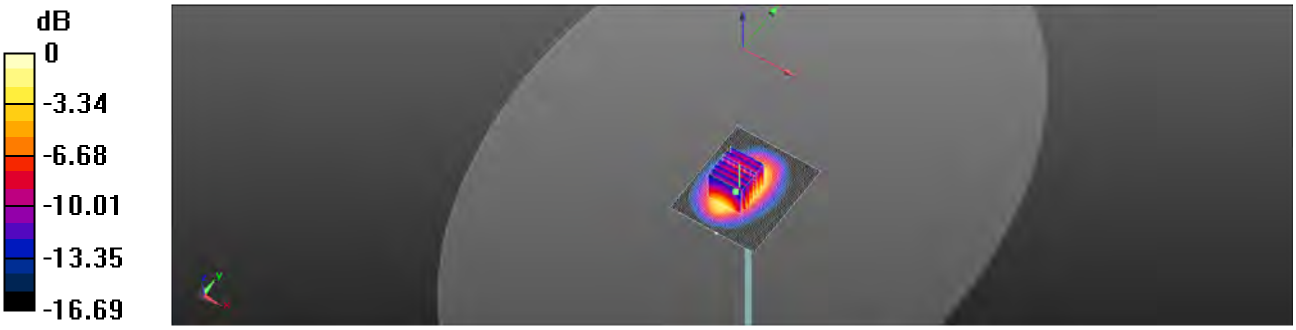
Date: 2015/4/15

Dipole 1750 MHz_SN:1008
Communication System: CW; Frequency: 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.481 S/m; ε_r = 51.812; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:
- Probe: EX3DV4 - SN3923; ConvF(8.3, 8.3, 8.3); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x61x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 13.0 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 92.93 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 16.3 W/kg
SAR(1 g) = 9.37 W/kg; SAR(10 g) = 5.06 W/kg
Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.02 dBW/kg

Date: 2015/4/16

Dipole 1900 MHz_SN:5d018_1

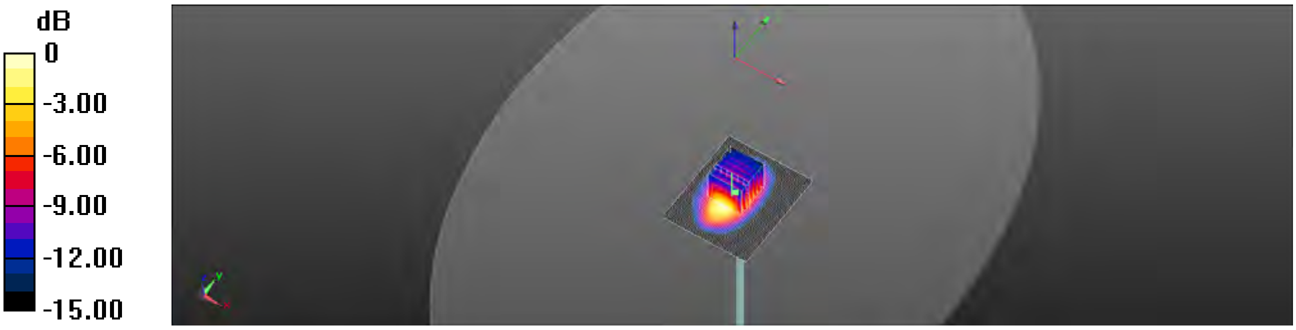
Communication System: CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.535 S/m; ε_r = 52.001; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x61x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 14.1 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.62 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 16.5 W/kg
SAR(1 g) = 10 W/kg; SAR(10 g) = 5.31 W/kg
Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

Date: 2015/4/17

Dipole 1900 MHz_SN:5d018_2

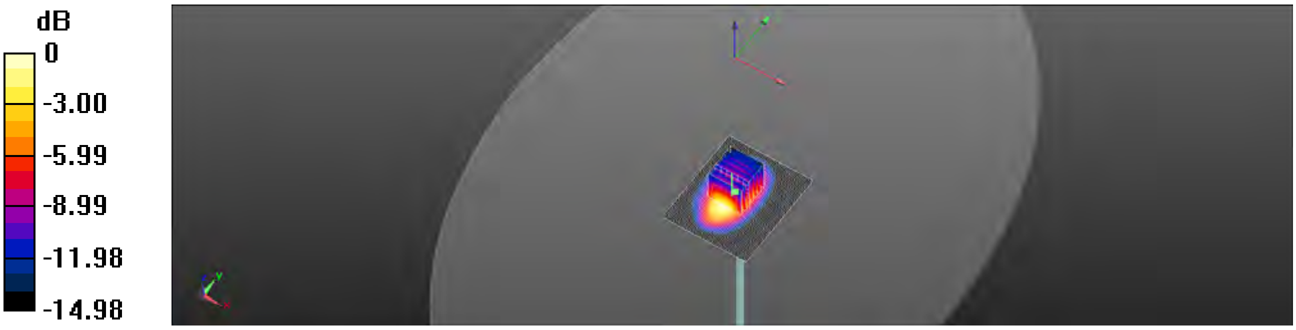
Communication System: CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.542 S/m; ε_r = 51.901; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(8.03, 8.03, 8.03); Calibrated: 2014/8/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/12/11
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x61x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 14.1 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 96.06 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 16.6 W/kg
SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.29 W/kg
Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg = 11.39 dBW/kg

Dipole 2450 MHz_SN:727

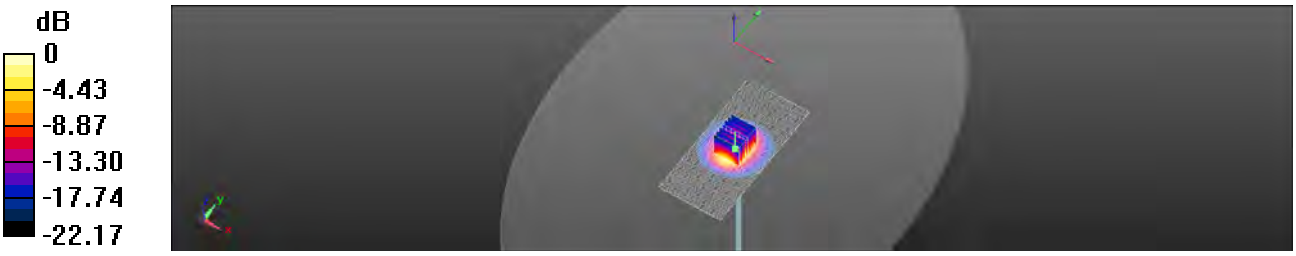
Communication System: CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.888 S/m; ε_r = 53.568; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x131x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 20.0 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.20 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 25.9 W/kg
SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.82 W/kg
Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 19.1 W/kg = 12.82 dBW/kg

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Date: 2015/4/4

Dipole 5GHz_SN:1023

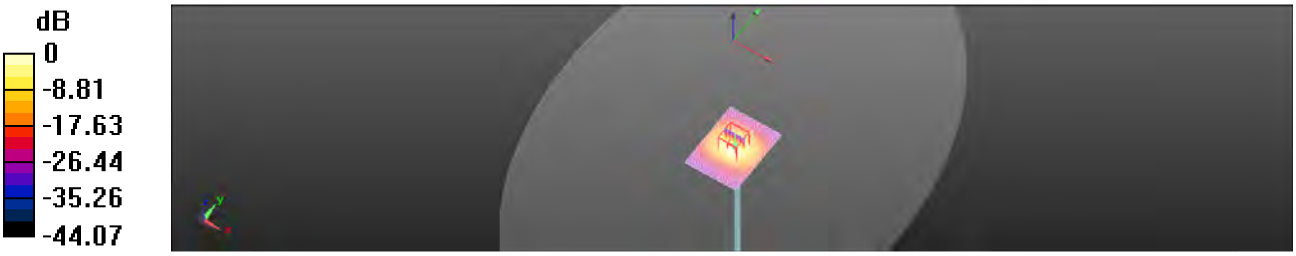
Communication System: CW; Frequency: 5200 MHz
Medium parameters used: f = 5200 MHz; σ = 5.231 S/m; ε_r = 48.181; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 16.0 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 57.32 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 32.5 W/kg
SAR(1 g) = 7.48 W/kg; SAR(10 g) = 2.11 W/kg
Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 15.7 W/kg = 11.96 dBW/kg

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Date: 2015/4/5

Dipole 5GHz_SN:1023

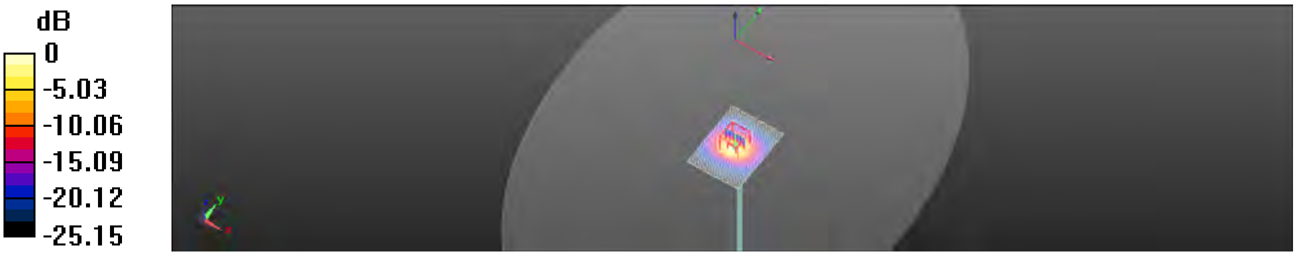
Communication System: CW; Frequency: 5300 MHz
Medium parameters used: f = 5300 MHz; σ = 5.339 S/m; ε_r = 47.965; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 14.9 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 56.33 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 28.4 W/kg
SAR(1 g) = 7.49 W/kg; SAR(10 g) = 2.15 W/kg
Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.68 dBW/kg

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Date: 2015/4/6

Dipole 5GHz_SN:1023

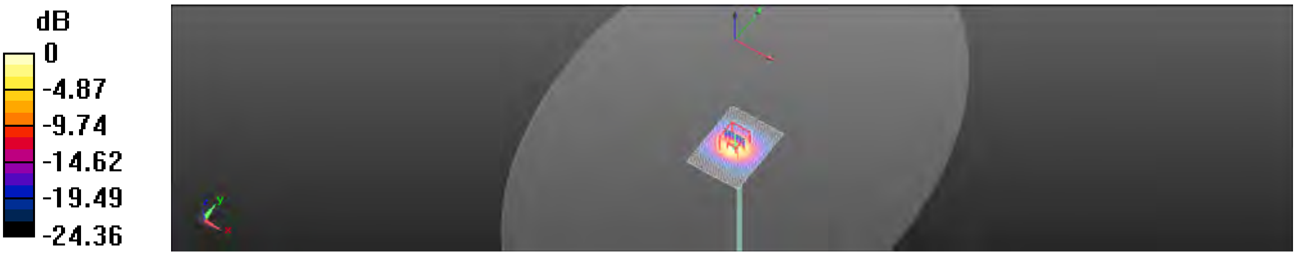
Communication System: CW; Frequency: 5600 MHz
Medium parameters used: f = 5600 MHz; σ = 5.712 S/m; ε_r = 47.589; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.49, 3.49, 3.49); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 16.0 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 55.88 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 32.2 W/kg
SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.19 W/kg
Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg = 11.94 dBW/kg

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Date: 2015/4/7

Dipole 5GHz_SN:1023

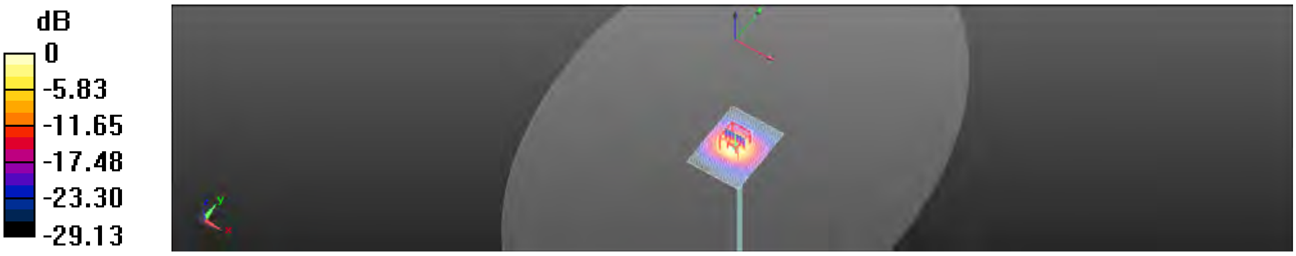
Communication System: CW; Frequency: 5800 MHz
Medium parameters used: f = 5800 MHz; σ = 5.949 S/m; ε_r = 47.261; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.7, 3.7, 3.7); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2014/12/29
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 16.2 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 55.98 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 33.2 W/kg
SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.18 W/kg
Maximum value of SAR (measured) = 16.0 W/kg



0 dB = 16.0 W/kg = 12.03 dBW/kg

7. DAE & Probe Calibration Certificate

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Accreditation No.: **SCS 108**

Client **Auden**

Certificate No: **DAE3-360_Dec14**

CALIBRATION CERTIFICATE

Object	DAE3 - SD 000 D03 AA - SN: 360
Calibration procedure(s)	QA CAL-06.v28 Calibration procedure for the data acquisition electronics (DAE)
Calibration date:	December 11, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	03-Oct-14 (No 15573)	Oct-15
Secondary Standards	**ID #**	**Check Date (in house)**	**Scheduled Check**
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-14 (in house check)	In house check: Jan-15
Calibrator Box V2.1	SE UMS 006 AA 1002	07-Jan-14 (in house check)	In house check: Jan-15

	Name	Function	Signature
Calibrated by:	Eric Hainfeld	Technician	
Approved by:	Fin Bomholt	Deputy Technical Manager	

Issued: December 11, 2014

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Certificate No: DAE3-360_Dec14 Page 1 of 5

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Accreditation No.: **SCS 108**

Glossary

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle*: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement*: Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1μV , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.......+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.235 ± 0.02% (k=2)	404.079 ± 0.02% (k=2)	404.092 ± 0.02% (k=2)
Low Range	3.93556 ± 1.50% (k=2)	3.93875 ± 1.50% (k=2)	3.97215 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	221.5 ° ± 1 °

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Appendix (Additional assessments outside the scope of SCS108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	199991.46	-3.98	-0.00
Channel X	+ Input	20008.87	8.06	0.04
Channel X	- Input	-19998.23	2.76	-0.01
Channel Y	+ Input	199993.74	-1.98	-0.00
Channel Y	+ Input	20002.76	2.04	0.01
Channel Y	- Input	-20004.74	-3.72	0.02
Channel Z	+ Input	199996.35	1.08	0.00
Channel Z	+ Input	20004.75	4.15	0.02
Channel Z	- Input	-20001.19	-0.08	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2001.09	0.20	0.01
Channel X	+ Input	202.04	0.78	0.39
Channel X	- Input	-198.57	0.00	-0.00
Channel Y	+ Input	2000.63	-0.15	-0.01
Channel Y	+ Input	199.98	-1.13	-0.56
Channel Y	- Input	-200.61	-1.89	0.95
Channel Z	+ Input	2000.63	-0.06	-0.00
Channel Z	+ Input	200.51	-0.55	-0.27
Channel Z	- Input	-199.08	-0.28	0.14

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-2.07	-3.89
	- 200	5.38	3.59
Channel Y	200	-10.03	-10.94
	- 200	9.36	8.51
Channel Z	200	-8.08	-9.02
	- 200	7.61	7.87

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	0.69	-1.79
Channel Y	200	9.62	-	1.50
Channel Z	200	6.65	6.90	-

Certificate No: DAE3-360_Dec14 Page 4 of 5

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16315	13419
Channel Y	15925	15338
Channel Z	16062	13836

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	-0.65	-1.81	0.26	0.42
Channel Y	-0.75	-1.87	0.30	0.41
Channel Z	0.82	-0.16	2.31	0.51

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

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Accreditation No.: **SCS 108**

Client **Auden**

Certificate No: **DAE4-916_Dec14**

CALIBRATION CERTIFICATE

Object DAE4 - SD 000 D04 BK - SN: 916

Calibration procedure(s) QA CAL-06.v28
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: December 29, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	03-Oct-14 (No:15573)	Oct-15
Secondary Standards	**ID #**	**Check Date (in house)**	**Scheduled Check**
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-14 (in house check)	In house check: Jan-15
Calibrator Box V2.1	SE UMS 006 AA 1002	07-Jan-14 (in house check)	In house check: Jan-15

	Name	Function	Signature
Calibrated by:	Eric Hainfeld	Technician	
Approved by:	Fin Bomholt	Deputy Technical Manager	

Issued: December 29, 2014

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Accreditation No.: **SCS 108**

Glossary

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle*: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
    - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
    - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
    - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
    - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
    - *Input Offset Measurement*: Output voltage and statistical results over a large number of zero voltage measurements.
    - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
    - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
    - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
    - *Power consumption:* Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:	1LSB =	6.1µV ,	full range =	-100...+300 mV
Low Range:	1LSB =	61nV ,	full range =	-1.......+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.866 ± 0.02% (k=2)	403.645 ± 0.02% (k=2)	403.774 ± 0.02% (k=2)
Low Range	3.97181 ± 1.50% (k=2)	3.98512 ± 1.50% (k=2)	3.97923 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	237.5 ° ± 1 °

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Appendix (Additional assessments outside the scope of SCS108)

1. DC Voltage Linearity

High Range		Reading (µV)	Difference (µV)	Error (%)
Channel X	+ Input	200034.93	2.19	0.00
Channel X	+ Input	20006.79	2.97	0.01
Channel X	- Input	-20004.07	1.40	-0.01
Channel Y	+ Input	200032.01	-0.73	-0.00
Channel Y	+ Input	20004.86	1.06	0.01
Channel Y	- Input	-20005.03	0.65	-0.00
Channel Z	+ Input	200033.57	1.38	0.00
Channel Z	+ Input	20003.86	0.07	0.00
Channel Z	- Input	-20006.07	-0.32	0.00

Low Range		Reading (µV)	Difference (µV)	Error (%)
Channel X	+ Input	2000.47	0.20	0.01
Channel X	+ Input	200.81	0.26	0.13
Channel X	- Input	-199.20	0.49	-0.24
Channel Y	+ Input	2000.38	0.20	0.01
Channel Y	+ Input	199.62	-0.40	-0.20
Channel Y	- Input	-200.35	-0.59	0.29
Channel Z	+ Input	2000.68	0.57	0.03
Channel Z	+ Input	199.14	-1.05	-0.53
Channel Z	- Input	-200.71	-0.93	0.47

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (µV)	Low Range Average Reading (µV)
Channel X	200	4.06	2.59
	- 200	-1.79	-3.16
Channel Y	200	-16.69	-16.92
	- 200	15.81	15.97
Channel Z	200	-23.05	-23.30
	- 200	21.39	20.90

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	1.05	-2.63
Channel Y	200	5.12	-	0.63
Channel Z	200	8.47	3.98	-

Certificate No: DAE4-916_Dec14 Page 4 of 5

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15890	15851
Channel Y	16106	16659
Channel Z	15954	15963

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	-0.30	-1.01	0.44	0.32
Channel Y	0.03	-0.92	0.97	0.33
Channel Z	-0.74	-1.66	0.57	0.42

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

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Accreditation No.: **SCS 108**

Client **SGS-TW (Auden)**

Certificate No: **EX3-3923_Aug14**

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3923
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	August 28, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	03-Apr-14 (No. 217-01911)	Apr-15
Power sensor E4412A	MY41498087	03-Apr-14 (No. 217-01911)	Apr-15
Reference 3 dB Attenuator	SN: S5054 (3c)	03-Apr-14 (No. 217-01915)	Apr-15
Reference 20 dB Attenuator	SN: S5277 (20x)	03-Apr-14 (No. 217-01919)	Apr-15
Reference 30 dB Attenuator	SN: S5129 (30b)	03-Apr-14 (No. 217-01920)	Apr-15
Reference Probe ES3DV2	SN: 3013	30-Dec-13 (No. ES3-3013_Dec13)	Dec-14
DAE4	SN: 660	13-Dec-13 (No. DAE4-660_Dec13)	Dec-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Israe El-Naouq	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: August 28, 2014

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy):* in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset:* The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle:* The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

Certificate No: EX3-3923_Aug14 Page 2 of 11

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Probe EX3DV4

SN:3923

Manufactured: March 8, 2013
Calibrated: August 28, 2014

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.58	0.48	0.47	± 10.1 %
DCP (mV)[B]	99.2	102.2	103.3	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	132.9	±3.0 %
		Y	0.0	0.0	1.0		134.8	
		Z	0.0	0.0	1.0		135.0	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	41.9	0.89	10.91	10.91	10.91	0.25	1.16	± 12.0 %
835	41.5	0.90	10.48	10.48	10.48	0.27	1.07	± 12.0 %
900	41.5	0.97	10.26	10.26	10.26	0.17	1.53	± 12.0 %
1750	40.1	1.37	8.72	8.72	8.72	0.75	0.57	± 12.0 %
1900	40.0	1.40	8.42	8.42	8.42	0.45	0.77	± 12.0 %
2000	40.0	1.40	8.46	8.46	8.46	0.67	0.63	± 12.0 %
2300	39.5	1.67	8.02	8.02	8.02	0.35	0.86	± 12.0 %
2450	39.2	1.80	7.66	7.66	7.66	0.33	0.87	± 12.0 %
2600	39.0	1.96	7.41	7.41	7.41	0.35	0.86	± 12.0 %
5200	36.0	4.66	5.17	5.17	5.17	0.35	1.80	± 13.1 %
5300	35.9	4.76	4.99	4.99	4.99	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.71	4.71	4.71	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.67	4.67	4.67	0.40	1.80	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	55.5	0.96	10.29	10.29	10.29	0.30	1.04	± 12.0 %
835	55.2	0.97	10.32	10.32	10.32	0.55	0.78	± 12.0 %
900	55.0	1.05	10.04	10.04	10.04	0.44	0.88	± 12.0 %
1750	53.4	1.49	8.30	8.30	8.30	0.39	0.85	± 12.0 %
1900	53.3	1.52	8.03	8.03	8.03	0.30	0.95	± 12.0 %
2000	53.3	1.52	8.16	8.16	8.16	0.23	1.16	± 12.0 %
2300	52.9	1.81	7.76	7.76	7.76	0.44	0.77	± 12.0 %
2450	52.7	1.95	7.56	7.56	7.56	0.80	0.50	± 12.0 %
2600	52.5	2.16	7.36	7.36	7.36	0.80	0.50	± 12.0 %
5200	49.0	5.30	4.71	4.71	4.71	0.35	1.90	± 13.1 %
5300	48.9	5.42	4.58	4.58	4.58	0.35	1.90	± 13.1 %
5600	48.5	5.77	4.09	4.09	4.09	0.40	1.90	± 13.1 %
5800	48.2	6.00	4.33	4.33	4.33	0.40	1.90	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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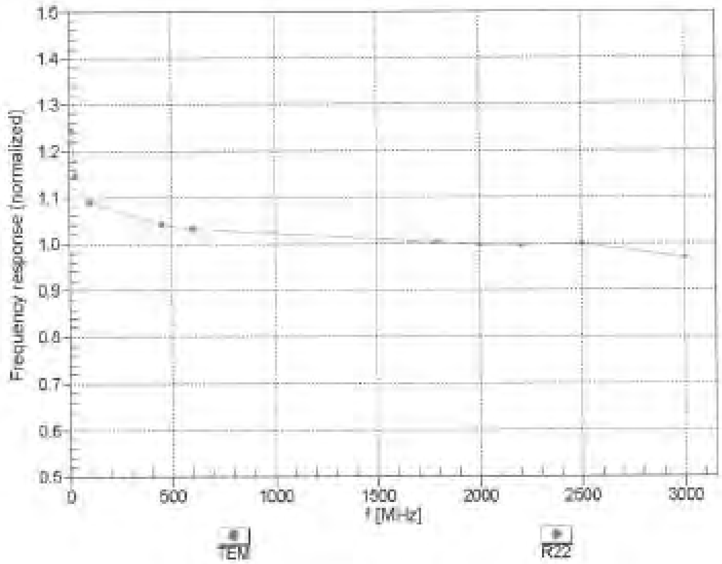
EX3DV4– SN:3923 August 28, 2014

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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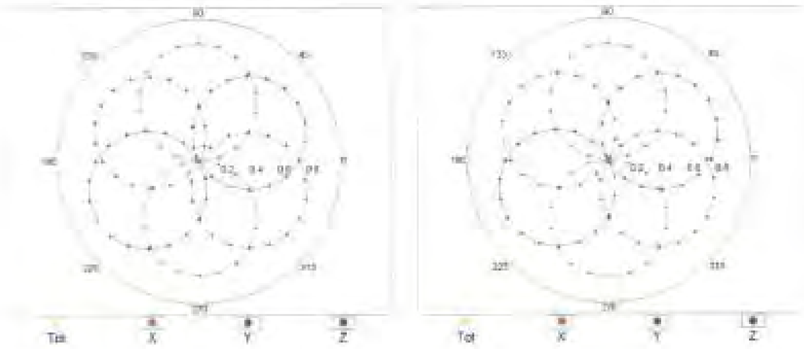
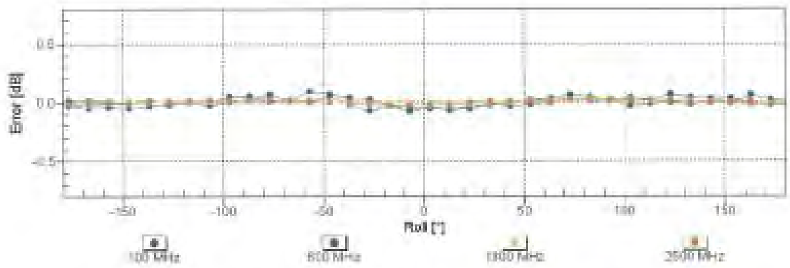
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM f=1800 MHz,R22





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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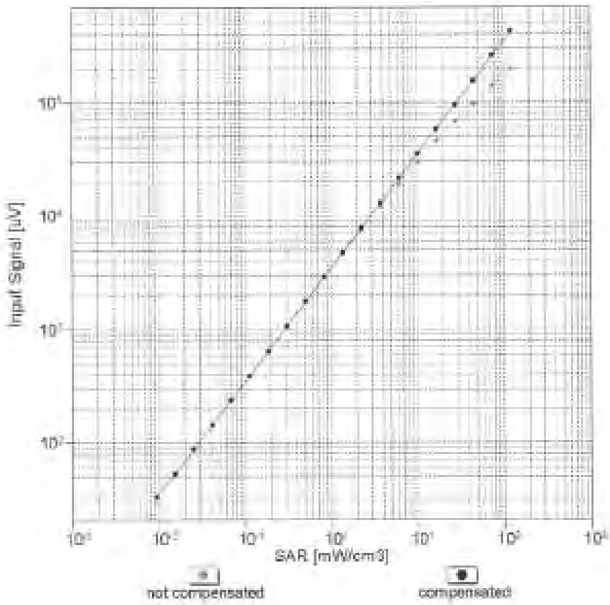
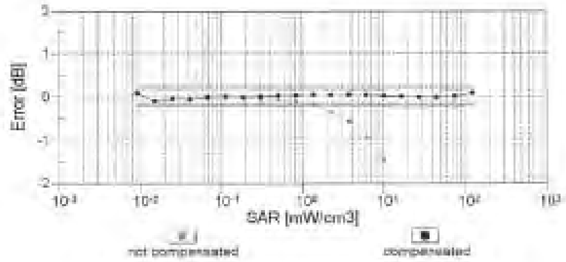
EX3DV4– SN:3923 August 28, 2014

Dynamic Range f(SAR$_{head}$)

(TEM cell , f_{eval}= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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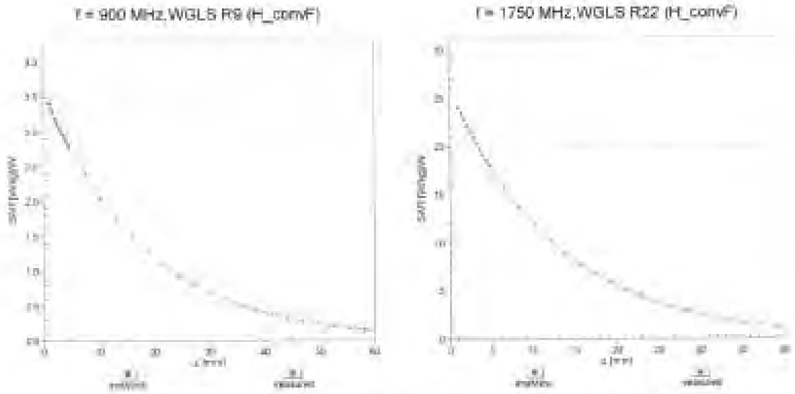
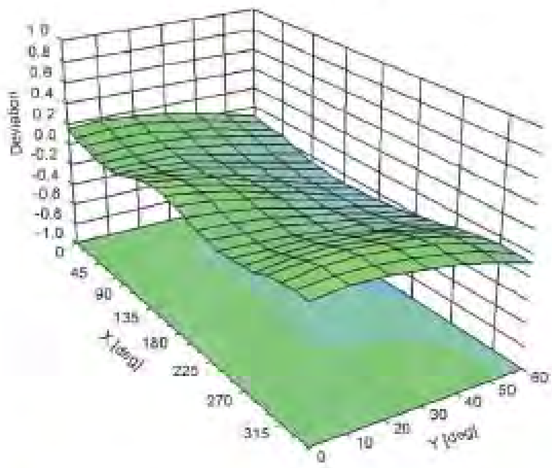
Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-57
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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Accreditation No.: **SCS 0108**

Client **SGS-TW (Auden)**

Certificate No: **EX3-3831_Jan15**

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3831
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	January 29, 2015

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	03-Apr-14 (No. 217-01911)	Apr-15
Power sensor E4412A	MY41498087	03-Apr-14 (No. 217-01911)	Apr-15
Reference 3 dB Attenuator	SN: S5054 (3c)	03-Apr-14 (No. 217-01915)	Apr-15
Reference 20 dB Attenuator	SN: S5277 (20x)	03-Apr-14 (No. 217-01919)	Apr-15
Reference 30 dB Attenuator	SN: S5129 (30b)	03-Apr-14 (No. 217-01920)	Apr-15
Reference Probe ES3DV2	SN: 3013	30-Dec-14 (No. ES3-3013_Dec14)	Dec-15
DAE4	SN: 660	14-Jan-15 (No. DAE4-660_Jan15)	Jan-16
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-14)	In house check: Oct-15

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: January 29, 2015

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: EX3-3831_Jan15 Page 1 of 11

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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z:* A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy):* in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset:* The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle:* The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

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Probe EX3DV4

SN:3831

Manufactured: September 6, 2011
Calibrated: January 29, 2015

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.45	0.42	0.43	± 10.1 %
DCP (mV)[B]	99.7	101.1	100.8	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	152.6	±3.5 %
		Y	0.0	0.0	1.0		143.5	
		Z	0.0	0.0	1.0		145.4	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of NormX,Y,Z do not affect the E^2-field uncertainty inside TSL (see Pages 5 and 6).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	41.9	0.89	9.28	9.28	9.28	0.31	0.99	± 12.0 %
835	41.5	0.90	8.95	8.95	8.95	0.28	1.17	± 12.0 %
900	41.5	0.97	8.76	8.76	8.76	0.25	1.23	± 12.0 %
1450	40.5	1.20	7.92	7.92	7.92	0.13	1.92	± 12.0 %
1750	40.1	1.37	7.75	7.75	7.75	0.32	0.89	± 12.0 %
1900	40.0	1.40	7.58	7.58	7.58	0.63	0.65	± 12.0 %
2000	40.0	1.40	7.48	7.48	7.48	0.80	0.57	± 12.0 %
2300	39.5	1.67	7.09	7.09	7.09	0.27	0.98	± 12.0 %
2450	39.2	1.80	6.81	6.81	6.81	0.51	0.68	± 12.0 %
2600	39.0	1.96	6.54	6.54	6.54	0.28	1.01	± 12.0 %
5250	35.9	4.71	4.60	4.60	4.60	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.14	4.14	4.14	0.45	1.80	± 13.1 %
5750	35.4	5.22	4.41	4.41	4.41	0.45	1.80	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	55.5	0.96	9.07	9.07	9.07	0.20	1.58	± 12.0 %
835	55.2	0.97	9.00	9.00	9.00	0.25	1.30	± 12.0 %
900	55.0	1.05	8.87	8.87	8.87	0.33	1.00	± 12.0 %
1450	54.0	1.30	7.68	7.68	7.68	0.19	1.44	± 12.0 %
1750	53.4	1.49	7.50	7.50	7.50	0.40	0.89	± 12.0 %
1900	53.3	1.52	7.34	7.34	7.34	0.31	1.06	± 12.0 %
2000	53.3	1.52	7.41	7.41	7.41	0.33	0.98	± 12.0 %
2300	52.9	1.81	7.08	7.08	7.08	0.40	0.89	± 12.0 %
2450	52.7	1.95	6.81	6.81	6.81	0.44	0.80	± 12.0 %
2600	52.5	2.16	6.65	6.65	6.65	0.80	0.58	± 12.0 %
5250	48.9	5.36	3.92	3.92	3.92	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.49	3.49	3.49	0.55	1.90	± 13.1 %
5750	48.3	5.94	3.70	3.70	3.70	0.55	1.90	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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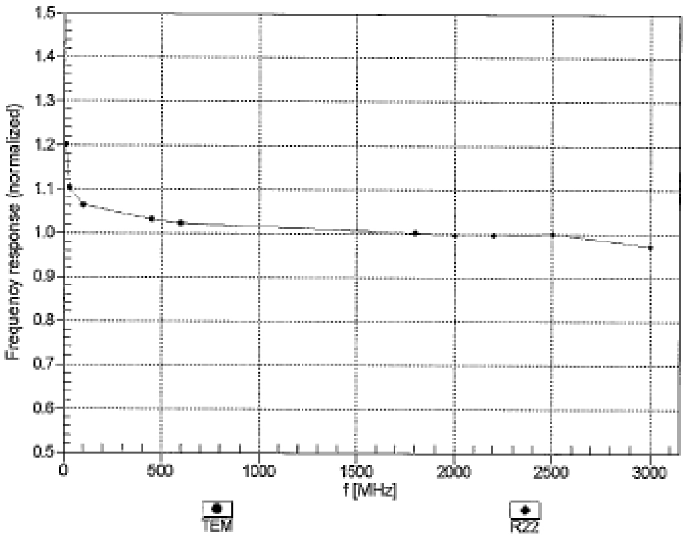
Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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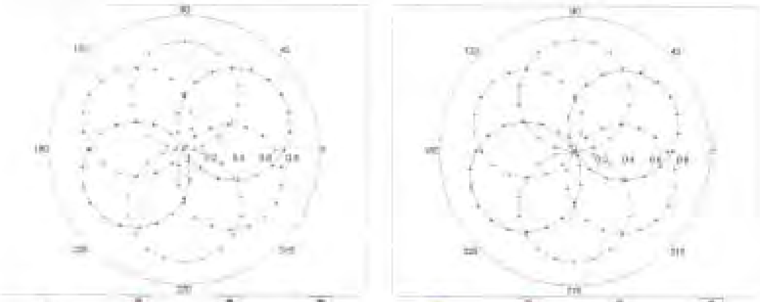
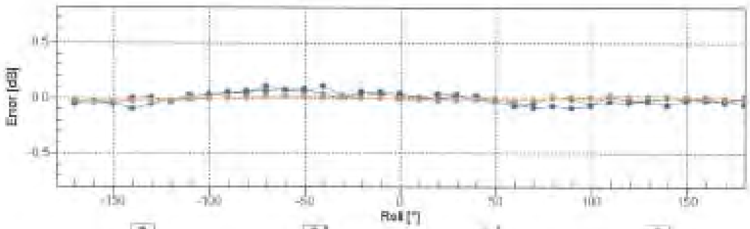
EX3DV4– SN:3831 January 29, 2015

Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM f=1800 MHz,R22





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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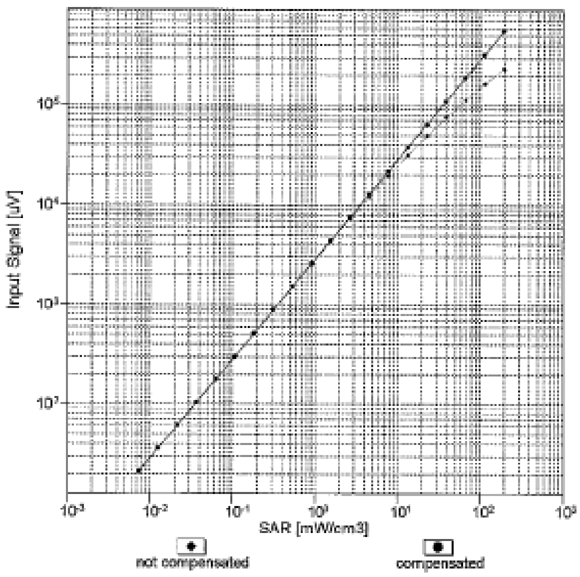
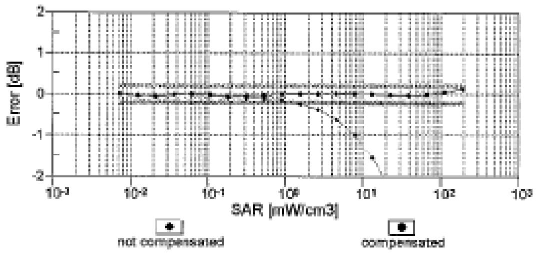
Dynamic Range f(SAR_{head})

(TEM cell , f_{eval}= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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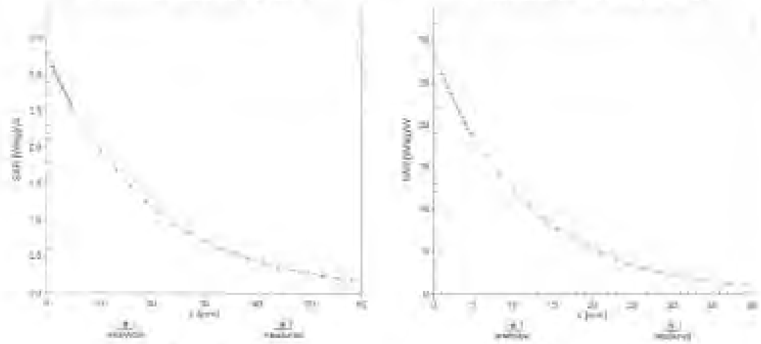
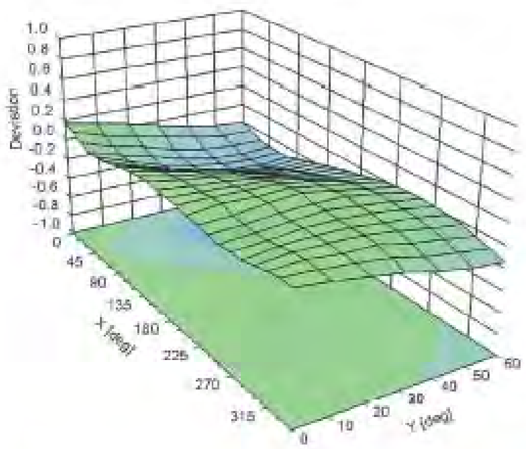
EX3DV4– SN:3831 January 29, 2015

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-20.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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8. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test
IEEE 1528

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributioi	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Deviation from reference liquid target ε 'r(Body)	3.04%	N	1	1	0.64	0.43	1.95%	1.31%	M
Deviation from reference liquid target σ (Body)	3.74%	N	1	1	0.6	0.49	2.24%	1.83%	M
Liquid conductivity σ － temperature uncertainty	2.20%	R	√3	1.732	0.78	0.71	0.99%	0.90%	∞
Liquid permittivity ε － temperature uncertainty	0.20%	R	√3	1.732	0.23	0.26	0.03%	0.03%	∞
Combined standard uncertainty		RSS					11.99%	11.82%	
Expant uncertainty (95% confidence interval), K=2							23.97%	23.64%	

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9. Phantom Description

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info@speag.com, http://www.speag.com

Certificate of Conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 C
Series No	TP-1150 and higher
Manufacturer	SPEAG Zeughausstrasse 43 CH-8004 Zürich Switzerland

Tests

The series production process used allows the limitation to test of first articles.
Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series items (called samples) or are tested at each item.

Test	Requirement	Details	Units tested
Dimensions	Compliant with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness of shell	Compliant with the requirements according to the standards	2mm +/- 0.2mm in flat and specific areas of head section	First article, Samples, TP-1314 ff.
Material thickness at ERP	Compliant with the requirements according to the standards	6mm +/- 0.2mm at ERP	First article, All items
Material parameters	Dielectric parameters for required frequencies	300 MHz – 6 GHz: Relative permittivity < 5, Loss tangent < 0.05	Material samples
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned according to the instructions. Observe technical Note for material compatibility.	DEGMBE based simulating liquids	Pre-series, First article, Material samples
Sagging	Compliant with the requirements according to the standards. Sagging of the flat section when filled with tissue simulating liquid.	< 1% typical < 0.8% if filled with 155mm of HSL900 and without DUT below	Prototypes, Sample testing

Standards

[1] CENELEC EN 50361
[2] IEEE Std 1528-2003
[3] IEC 62209 Part I
[4] FCC OET Bulletin 65, Supplement C, Edition 01-01
(*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of the other documents.

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4].

Date 07.07.2005

Signature / Stamp

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info@speag.com, http://www.speag.com

Doc No 881 – QD 000 P40 C – F Page 1 (1)

10. System Validation from Original Equipment Supplier

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS-TW (Auden)**

Certificate No: **D750V3-1015_Aug14**

CALIBRATION CERTIFICATE

Object	D750V3 - SN: 1015
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date:	August 28, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	18-Aug-14 (No. DAE4-601_Aug14)	Aug-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	M.Weber
Approved by:	Katja Pokovic	Technical Manager	

Issued: August 28, 2014

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Certificate No: D750V3-1015_Aug14 Page 1 of 8

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Member of SGS Group

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.2 ± 6 %	0.91 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**8.31 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**5.45 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.4 ± 6 %	0.99 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.24 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**8.75 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.49 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**5.85 W/kg ± 16.5 % (k=2)**

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Appendix (Additional assessments outside the scope of SCS108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.1 Ω - 0.4 jΩ
Return Loss	- 30.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.3 Ω - 2.9 jΩ
Return Loss	- 29.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.037 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 22, 2010

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DASY5 Validation Report for Head TSL

Date: 28.08.2014

Test Laboratory: SPEAG, Zurich, Switzerland

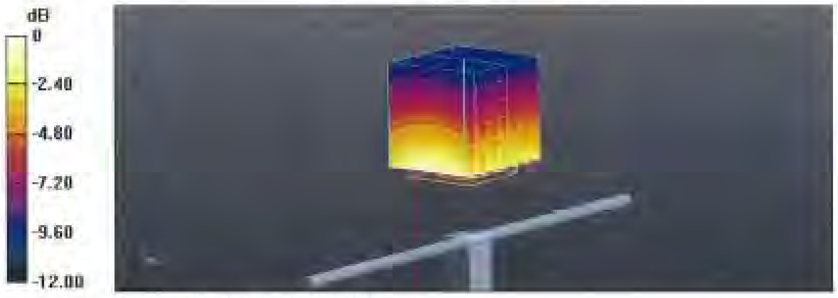
DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.91 S/m; ε_r = 42.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.37, 6.37, 6.37); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.68 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.13 W/kg
SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.38 W/kg
Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.46 W/kg = 3.91 dBW/kg

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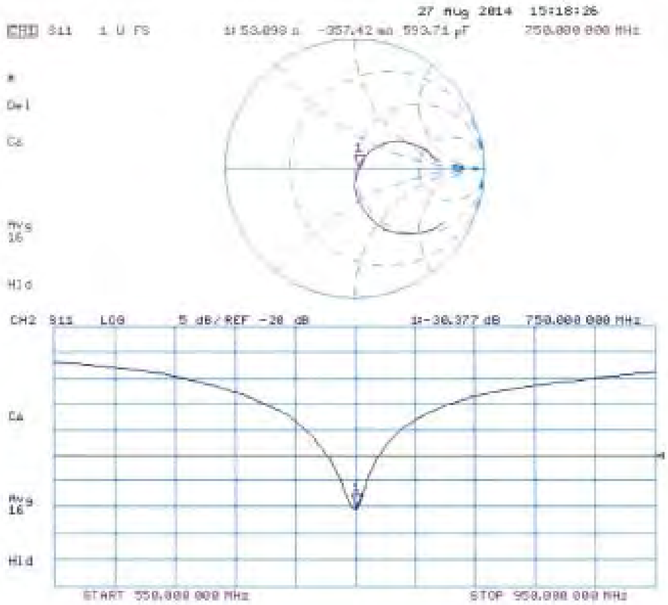
Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 27.08.2014

Test Laboratory: SPEAG, Zurich, Switzerland

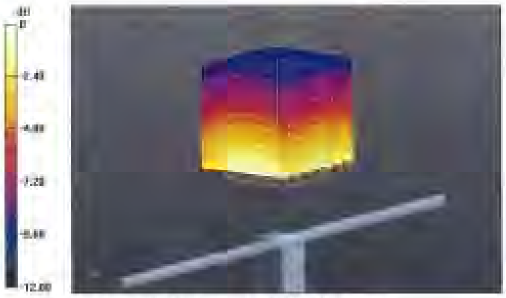
DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.99 S/m; ε_r = 55.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.13, 6.13, 6.13); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.06 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.26 W/kg
SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.49 W/kg
Maximum value of SAR (measured) = 2.60 W/kg



0 dB = 2.60 W/kg = 4.15 dBW/kg

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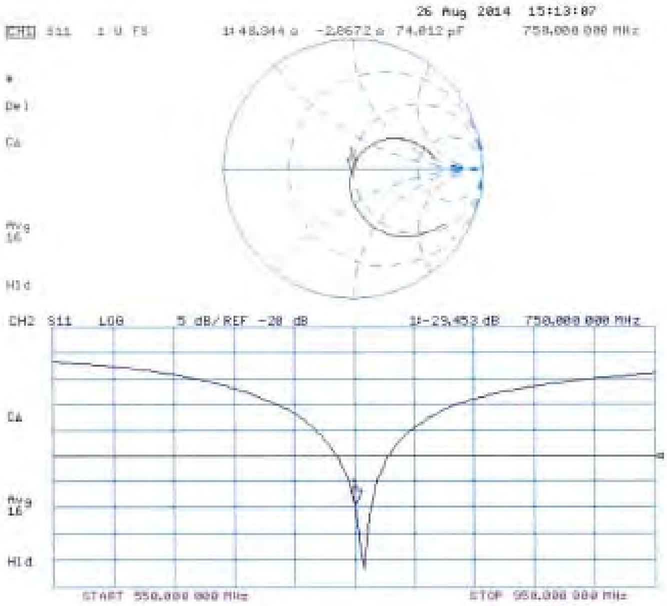
Impedance Measurement Plot for Body TSL



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Accreditation No.: SCS 108

Client **SGS-TW (Auden)**

Certificate No: D835V2-4d063_Aug14

CALIBRATION CERTIFICATE

Object	D835V2 - SN: 4d063
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date:	August 28, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	18-Aug-14 (No. DAE4-601_Aug14)	Aug-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	M.Weber
Approved by:	Katja Pokovic	Technical Manager	

Issued: August 28, 2014

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Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.0 ± 6 %	0.94 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**9.24 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.55 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**6.05 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.2 ± 6 %	1.01 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.41 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**9.35 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.59 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**6.21 W/kg ± 16.5 % (k=2)**

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Appendix (Additional assessments outside the scope of SCS108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.7 Ω - 3.6 jΩ
Return Loss	- 28.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.1 Ω - 5.8 jΩ
Return Loss	- 23.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.381 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	November 27, 2006

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DASY5 Validation Report for Head TSL

Date: 28.08.2014

Test Laboratory: SPEAG, Zurich, Switzerland

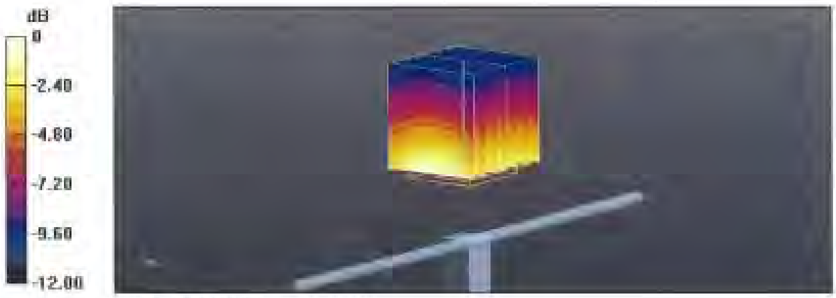
DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

Communication System: UID 0 - CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.94 S/m; ε_r = 42; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.22, 6.22, 6.22); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

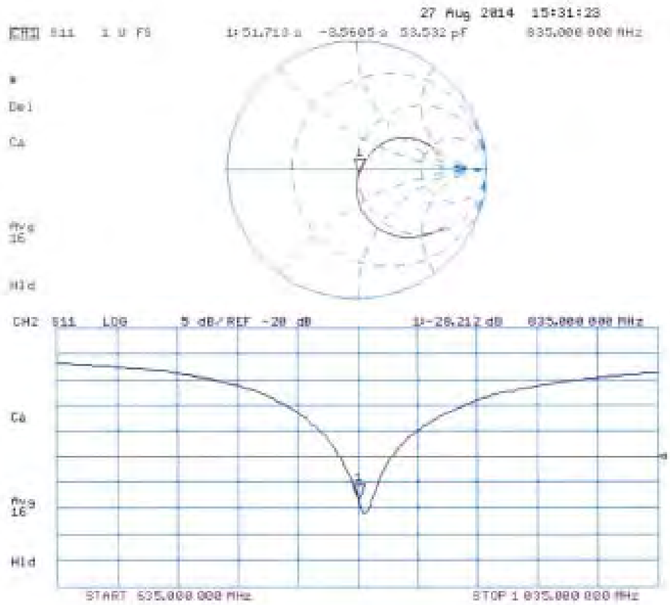
Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.23 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.53 W/kg
SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.55 W/kg
Maximum value of SAR (measured) = 2.78 W/kg



0 dB = 2.78 W/kg = 4.44 dBW/kg

Certificate No: D835V2-4d063_Aug14 Page 5 of 8

Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 27.08.2014

Test Laboratory: SPEAG, Zurich, Switzerland

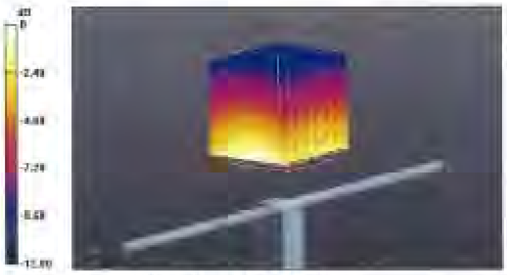
DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

Communication System: UID 0 - CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; σ = 1.01 S/m; ε_r = 55.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.09, 6.09, 6.09); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.65 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 3.53 W/kg
SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.59 W/kg
Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

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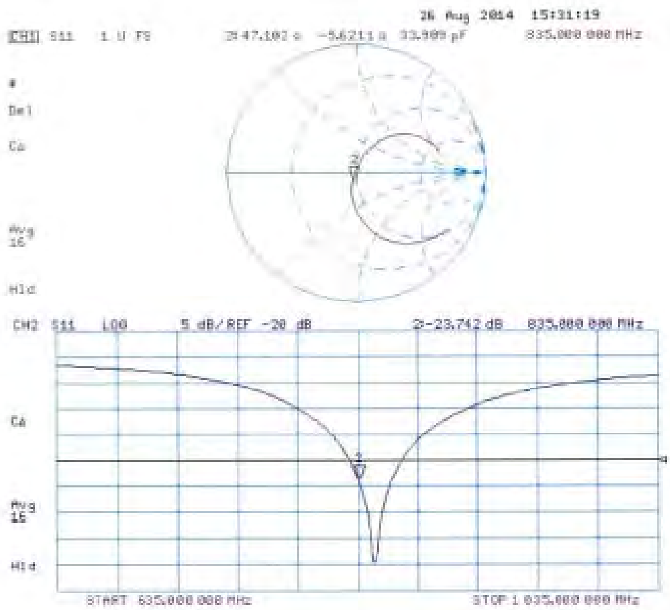
Impedance Measurement Plot for Body TSL



Certificate No: D835V2-4d063_Aug14 Page 8 of 8

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Accreditation No.: SCS 108

Client SGS-TW (Auden)

Certificate No: D1750V2-1008_Aug14

CALIBRATION CERTIFICATE

Object	D1750V2 - SN: 1008
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date:	August 28, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	18-Aug-14 (No. DAE4-601_Aug14)	Aug-15
Secondary Standards	**ID #**	**Check Date (in house)**	**Scheduled Check**
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	M.Weber
Approved by:	Katja Pokovic	Technical Manager	

Issued: August 28, 2014

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Certificate No: D1750V2-1008_Aug14 Page 1 of 8

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.2 ± 6 %	1.37 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.26 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**36.9 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.91 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**19.6 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Body TSL parameters	22.0 °C	53.4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.0 ± 6 %	1.49 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.44 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**37.5 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.07 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**20.2 W/kg ± 16.5 % (k=2)**

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Appendix (Additional assessments outside the scope of SCS108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.4 Ω + 0.3 jΩ
Return Loss	- 46.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.4 Ω + 0.3 jΩ
Return Loss	- 28.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.222 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 11, 2009

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DASY5 Validation Report for Head TSL

Date: 28.08.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1008

Communication System: UID 0 - CW; Frequency: 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.37 S/m; ε_r = 39.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(5.23, 5.23, 5.23); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.53 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 16.7 W/kg
SAR(1 g) = 9.26 W/kg; SAR(10 g) = 4.91 W/kg
Maximum value of SAR (measured) = 11.6 W/kg

0 dB = 11.6 W/kg = 10.64 dBW/kg

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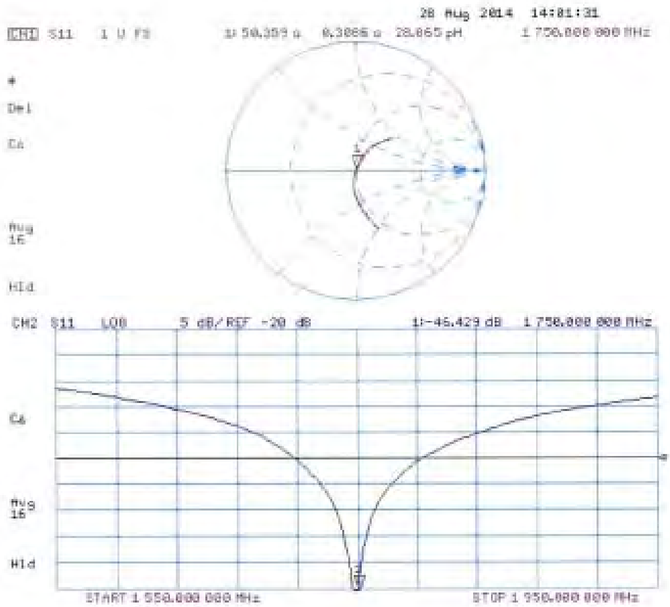
Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 28.08.2014

Test Laboratory: SPEAG, Zurich, Switzerland

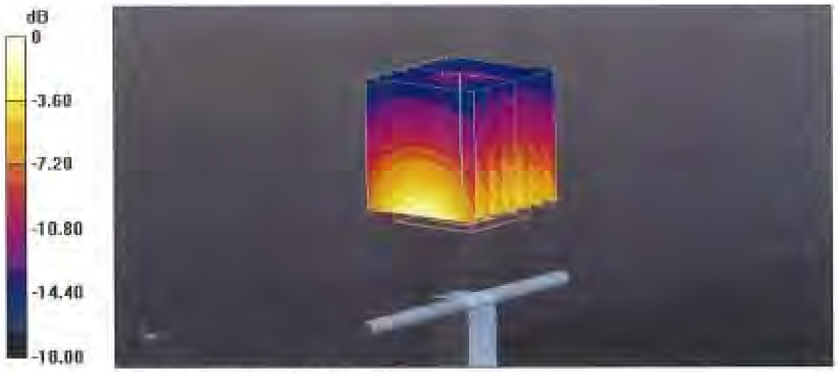
DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1008

Communication System: UID 0 - CW; Frequency: 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.49 S/m; ε_r = 52; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.89, 4.89, 4.89); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 93.44 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 16.3 W/kg
SAR(1 g) = 9.44 W/kg; SAR(10 g) = 5.07 W/kg
Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg

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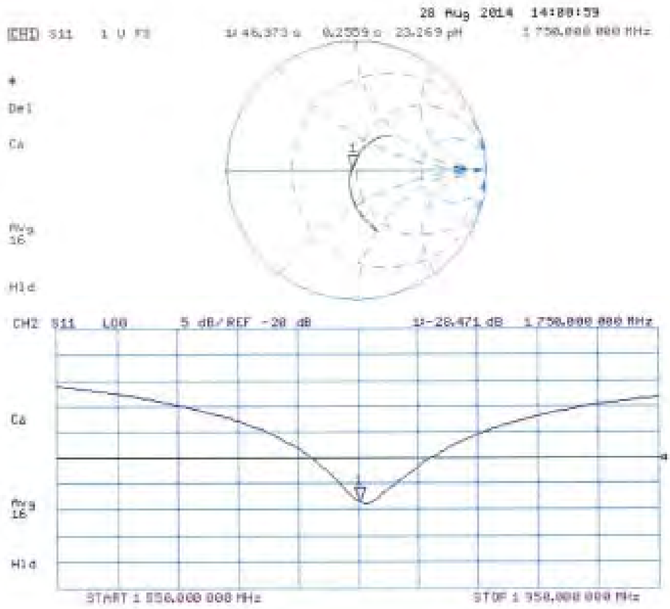
Impedance Measurement Plot for Body TSL



Certificate No: D1750V2-1008_Aug14 Page 8 of 8

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Accreditation No.: SCS 108

Client Auden

Certificate No: D1900V2-5d018_Jun14

CALIBRATION CERTIFICATE

Object: D1900V2 - SN: 5d018

Calibration procedure(s): QA CAL-05.v9
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: June 18, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	30-Apr-14 (No. DAE4-601_Apr14)	Apr-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	M.Weber
Approved by:	Katja Pokovic	Technical Manager	

Issued: June 18, 2014

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Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.5 ± 6 %	1.39 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	10.0 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**40.1 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.26 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**21.1 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.5 ± 6 %	1.51 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.94 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**39.8 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.26 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**21.0 W/kg ± 16.5 % (k=2)**

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Appendix (Additional assessments outside the scope of SCS108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.3 Ω + 2.5 jΩ
Return Loss	- 31.1 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.2 Ω + 2.9 jΩ
Return Loss	- 27.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.194 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	June 04, 2002

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DASY5 Validation Report for Head TSL

Date: 18.06.2014

Test Laboratory: SPEAG, Zurich, Switzerland

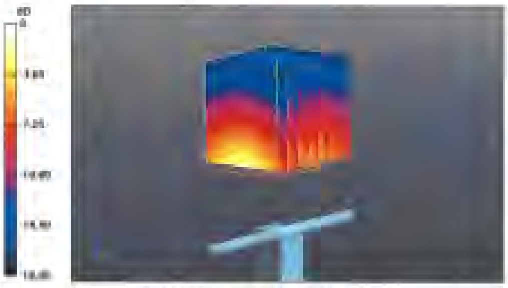
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d018

Communication System: UID 0 - CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.39 S/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(5.06, 5.06, 5.06); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.07 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 18.3 W/kg
SAR(1 g) = 10 W/kg; SAR(10 g) = 5.26 W/kg
Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.00 dBW/kg

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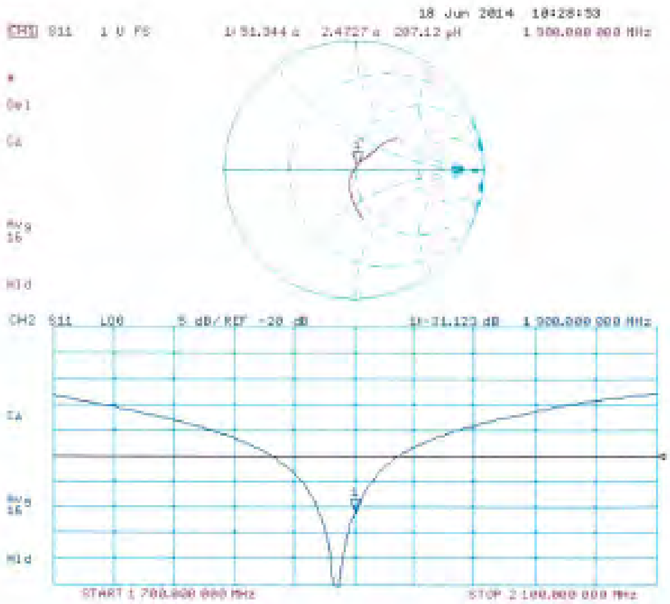
Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 18.06.2014

Test Laboratory: SPEAG, Zurich, Switzerland

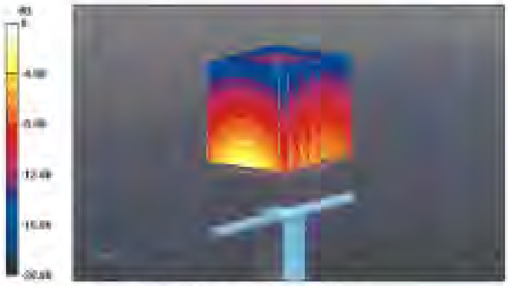
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d018

Communication System: UID 0 - CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.51 S/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.76, 4.76, 4.76); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.36 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 17.3 W/kg
SAR(1 g) = 9.94 W/kg; SAR(10 g) = 5.26 W/kg
Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

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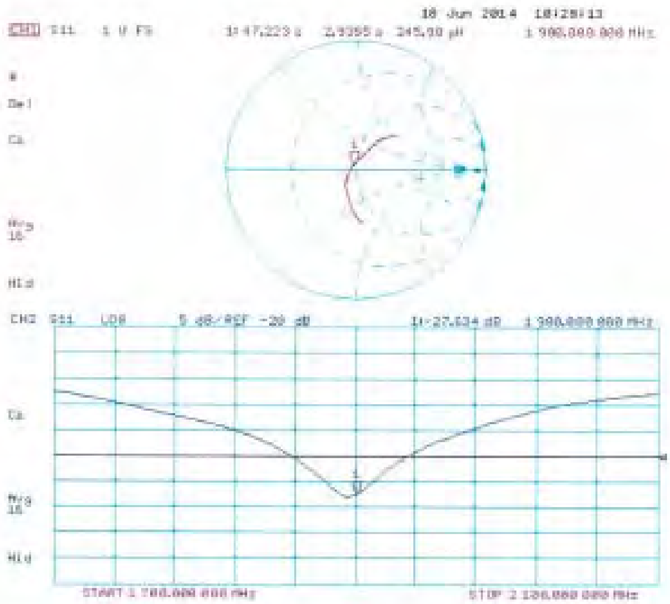
Impedance Measurement Plot for Body TSL



Certificate No: D1900V2-5d018_Jun14 Page 8 of 8

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Accreditation No.: **SCS 108**

Client **SGS-TW (Auden)**

Certificate No: **D2450V2-727_Apr14**

CALIBRATION CERTIFICATE

Object: D2450V2 - SN: 727

Calibration procedure(s): QA CAL-05.v9
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: April 23, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	25-Apr-13 (No. DAE4-601_Apr13)	Apr-14

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by	Jeton Kastrati	Laboratory Technician	
Approved by	Katja Pokovic	Technical Manager	

Issued: April 23, 2014

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Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.7
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.2 ± 6 %	1.81 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**52.0 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.09 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**24.2 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50.6 ± 6 %	2.01 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.8 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**50.0 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.90 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**23.3 W/kg ± 16.5 % (k=2)**

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Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.6 Ω + 1.9 jΩ
Return Loss	- 26.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	51.1 Ω + 3.5 jΩ
Return Loss	- 28.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.148 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	January 09, 2003

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DASY5 Validation Report for Head TSL

Date: 23.04.2014

Test Laboratory: SPEAG, Zurich, Switzerland

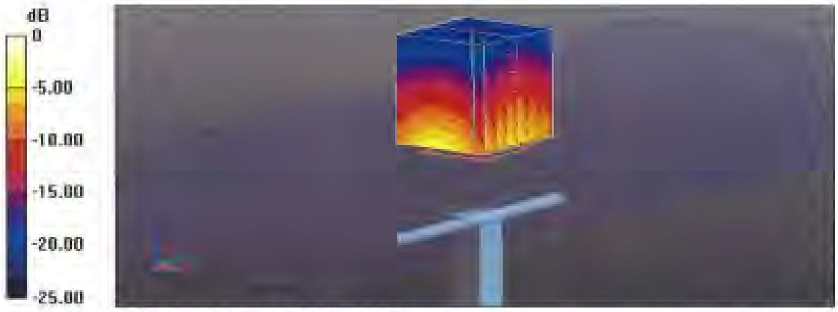
DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 727

Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.81 S/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.53, 4.53, 4.53); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 25.04.2013
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 100.01 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 27.0 W/kg
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.09 W/kg
Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.33 dBW/kg

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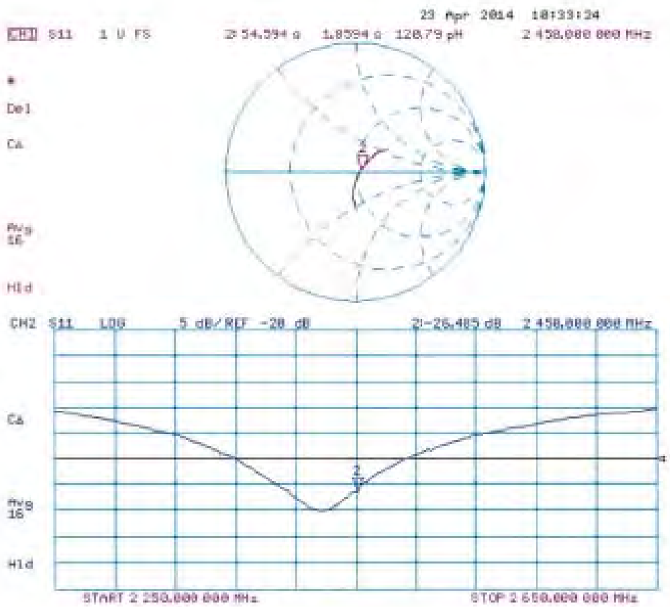
Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 23.04.2014

Test Laboratory: SPEAG, Zurich, Switzerland

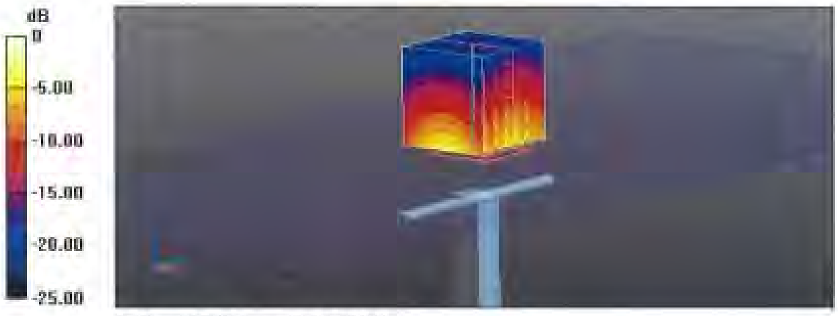
DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 727

Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 2.01 S/m; ε_r = 50.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.35, 4.35, 4.35); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 25.04.2013
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.356 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 26.9 W/kg
SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.9 W/kg
Maximum value of SAR (measured) = 16.7 W/kg



0 dB = 16.7 W/kg = 12.23 dBW/kg

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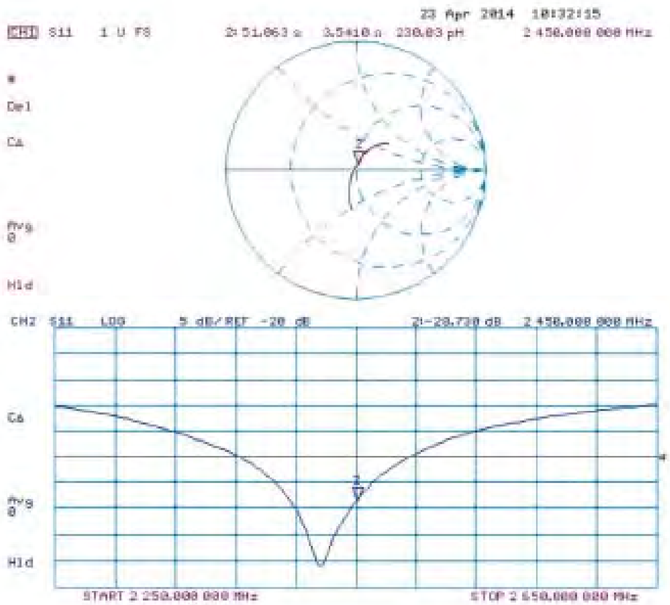
Impedance Measurement Plot for Body TSL



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Accreditation No.: **SCS 0108**

Client **SGS-TW (Auden)**

Certificate No: **D5GHzV2-1023_Jan15**

CALIBRATION CERTIFICATE

Object	D5GHzV2 - SN:1023
Calibration procedure(s)	QA CAL-22.v2 Calibration procedure for dipole validation kits between 3-6 GHz
Calibration date:	January 29, 2015

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	07-Oct-14 (No. 217-02020)	Oct-15
Power sensor HP 8481A	US37292783	07-Oct-14 (No. 217-02020)	Oct-15
Power sensor HP 8481A	MY41092317	07-Oct-14 (No. 217-02021)	Oct-15
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe EX3DV4	SN: 3503	30-Dec-14 (No. EX3-3503_Dec14)	Dec-15
DAE4	SN: 601	18-Aug-14 (No. DAE4-601_Aug14)	Aug-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-14)	In house check: Oct-15

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	M.Weber
Approved by:	Katja Pokovic	Technical Manager	

Issued: January 29, 2015

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Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEC 62209-2, "Evaluation of Human Exposure to Radio Frequency Fields from Handheld and Body-Mounted Wireless Communication Devices in the Frequency Range of 30 MHz to 6 GHz: Human models, Instrumentation, and Procedures"; Part 2: "Procedure to determine the Specific Absorption Rate (SAR) for including accessories and multiple transmitters", March 2010
b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"
c) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.3 ± 6 %	4.56 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.78 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**77.9 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**22.2 W/kg ± 19.5 % (k=2)**

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Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.1 ± 6 %	4.66 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**81.7 W / kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**23.4 W/kg ± 19.5 % (k=2)**

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.7 ± 6 %	4.97 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**81.4 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.31 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**23.1 W/kg ± 19.5 % (k=2)**

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Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	5.16 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.82 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**78.2 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**22.3 W/kg ± 19.5 % (k=2)**

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Body TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	49.4 ± 6 %	5.42 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.33 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**73.5 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.04 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**20.5 W/kg ± 19.5 % (k=2)**

Body TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	49.2 ± 6 %	5.55 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.45 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**74.6 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.07 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**20.8 W/kg ± 19.5 % (k=2)**

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Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.7 ± 6 %	5.96 mho/m ± 6 %
Body TSL temperature change during test	≤ 0.5 °C	----	----

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.77 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**77.9 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.15 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**21.6 W/kg ± 19.5 % (k=2)**

Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.4 ± 6 %	6.25 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.54 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**75.6 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.07 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**20.7 W/kg ± 19.5 % (k=2)**

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Appendix (Additional assessments outside the scope of SCS0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	49.2 Ω - 8.5 jΩ
Return Loss	- 21.4 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	51.0 Ω - 3.8 jΩ
Return Loss	- 28.2 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	53.4 Ω - 2.7 jΩ
Return Loss	- 27.5 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	55.6 Ω + 1.0 jΩ
Return Loss	- 25.4 dB

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	49.0 Ω - 7.1 jΩ
Return Loss	- 22.8 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	51.5 Ω - 2.2 jΩ
Return Loss	- 31.7 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	54.0 Ω - 1.5 jΩ
Return Loss	- 26.8 dB

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Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	55.8 Ω + 2.8 jΩ
Return Loss	- 24.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.199 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 05, 2004

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DASY5 Validation Report for Head TSL

Date: 28.01.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz
Medium parameters used: f = 5200 MHz; σ = 4.56 S/m; ε_r = 36.3; ρ = 1000 kg/m^3 , Medium parameters used: f = 5300 MHz; σ = 4.66 S/m; ε_r = 36.1; ρ = 1000 kg/m^3 , Medium parameters used: f = 5600 MHz; σ = 4.97 S/m; ε_r = 35.7; ρ = 1000 kg/m^3 , Medium parameters used: f = 5800 MHz; σ = 5.18 S/m; ε_r = 35.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.51, 5.51, 5.51); Calibrated: 30.12.2014, ConvF(5.21, 5.21, 5.21); Calibrated: 30.12.2014, ConvF(4.92, 4.92, 4.92); Calibrated: 30.12.2014, ConvF(4.9, 4.9, 4.9); Calibrated: 30.12.2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 64.14 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 28.3 W/kg
SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.22 W/kg
Maximum value of SAR (measured) = 17.8 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.47 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 30.7 W/kg
SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.34 W/kg
Maximum value of SAR (measured) = 18.6 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 63.68 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 32.2 W/kg
SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.31 W/kg
Maximum value of SAR (measured) = 18.9 W/kg

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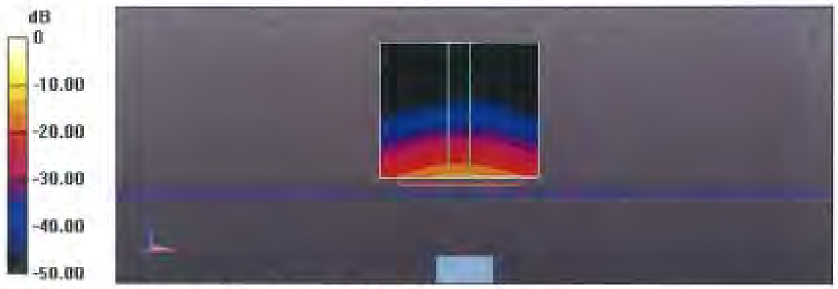
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 61.76 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 32.0 W/kg
SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.23 W/kg
Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 17.8 W/kg = 12.50 dBW/kg

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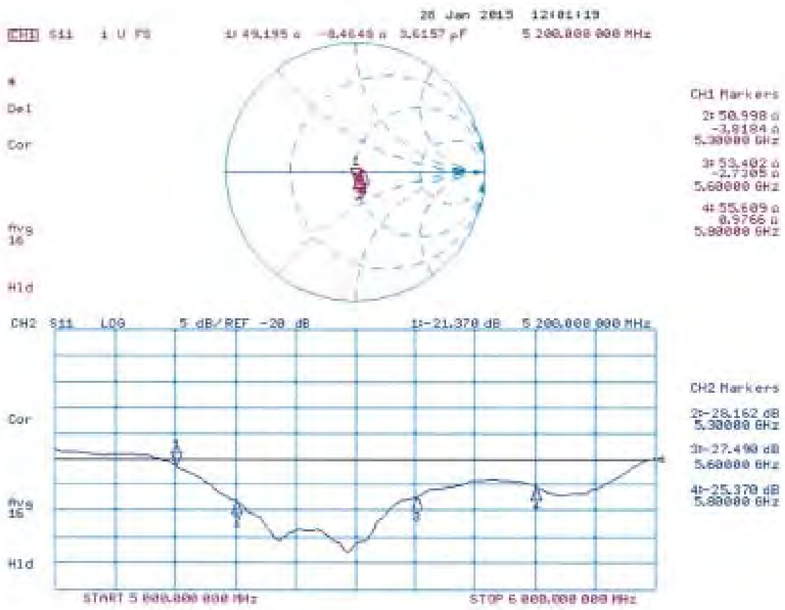
Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 29.01.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz
Medium parameters used: f = 5200 MHz; σ = 5.42 S/m; ε_r = 49.4; ρ = 1000 kg/m^3 , Medium parameters used: f = 5300 MHz; σ = 5.55 S/m; ε_r = 49.2; ρ = 1000 kg/m^3 , Medium parameters used: f = 5600 MHz; σ = 5.96 S/m; ε_r = 48.7; ρ = 1000 kg/m^3 , Medium parameters used: f = 5800 MHz; σ = 6.25 S/m; ε_r = 48.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(4.95, 4.95, 4.95); Calibrated: 30.12.2014, ConvF(4.78, 4.78, 4.78); Calibrated: 30.12.2014, ConvF(4.35, 4.35, 4.35); Calibrated: 30.12.2014, ConvF(4.32, 4.32, 4.32); Calibrated: 30.12.2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 57.97 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 28.6 W/kg
SAR(1 g) = 7.33 W/kg; SAR(10 g) = 2.04 W/kg
Maximum value of SAR (measured) = 17.3 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 57.58 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 30.0 W/kg
SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.07 W/kg
Maximum value of SAR (measured) = 17.8 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 56.88 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 34.4 W/kg
SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.15 W/kg
Maximum value of SAR (measured) = 19.3 W/kg

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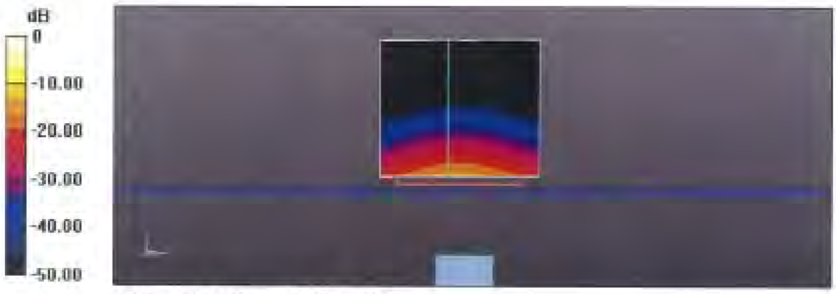
Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 55.10 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 35.2 W/kg
SAR(1 g) = 7.54 W/kg; SAR(10 g) = 2.07 W/kg
Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 17.3 W/kg = 12.38 dBW/kg

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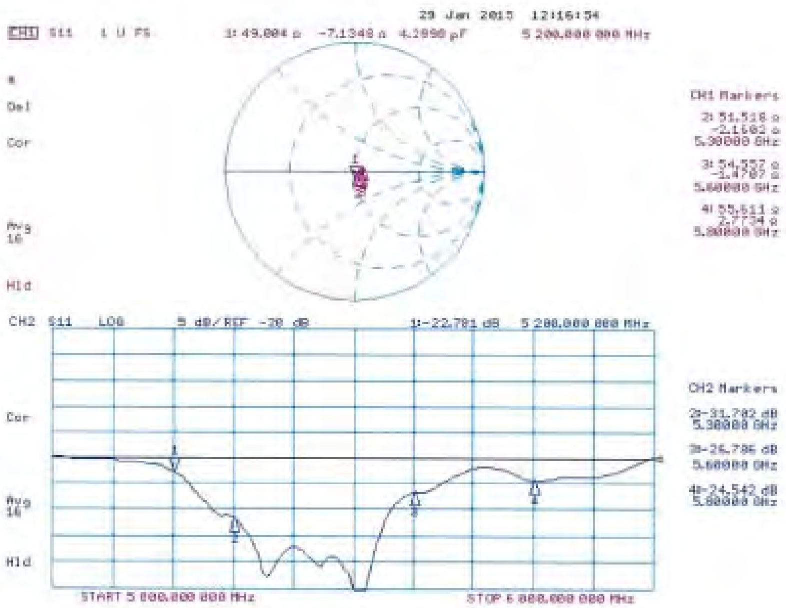
Impedance Measurement Plot for Body TSL



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- End of 1st part of report -

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