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SAR TEST REPORT

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

Equipment Under Test Tablet PC

Trimble Navigation Ltd. **Brand Name**

104963 Model No.

Trimble Navigation Ltd. **Company Name**

345 SW Avery Ave. Corvallis, OR 97333 **Company Address**

IEEE /ANSI C95.1, C95.3, IEEE 1528 2013, **Standards**

> RSS102 issue 5 March 2015, IEC 62209-2, KDB248227D01v01r02, KDB616217D04v01r01, KDB865664D01v01r03, KDB865664D02v01r01,

KDB941225D01v03,KDB941225D05v02r03,

KDB447498D01v05r02

S9E -WIT2410G, S9E-EM7355, S9E-7265NGW FCC ID

Date of Receipt May. 25, 2015

Date of Test(s) Jun. 01, 2015 ~ Jun. 18, 2015

Date of Issue Jun. 30, 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.

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Signed on behalf of SGS

Sr. Engineer

Sr. Engineer

John Yeh

Date: Jun. 30, 2015

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John Teh



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Version

Report Number	Revision	Date	Memo
EN/2015/50004	00	2015/6/24	Initial creation of test report.
EN/2015/50004	01	2015/6/25	1 st modification
EN/2015/50004	02	2015/6/30	2 nd modification

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

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1. General Information

1.1 Testing Laboratory

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

1.2 Details of Applicant

Company Name	Trimble Navigation Ltd.
Company Address	345 SW Avery Ave. Corvallis, OR 97333

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1.3 Description of EUT

Equipment Under Test	Tablet								
Brand Name	Trimble Navigation Ltd.								
Model No.	104963								
FCC ID	S9E -WIT2410G, S9E-EM7355, S9E-726	S9E -WIT2410G, S9E-EM7355, S9E-7265NGW							
Mode of Operation									
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								
	GPRS	1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)							
365	EDGE	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)							
Duty Cycle	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							
	GPRS850	824.2 — 848.8							
2 Ph	GPRS1900	1850.2 — 1909.8							
TV Francisco Decision	WCDMA Band II	1852.4 — 1907.6							
TX Frequency Range (MHz)	WCDMA Band IV	1712.4 — 1752.6							
(14.12)	WCDMA Band V	826.4 — 846.6							
	LTE FDD Band II	1850 — 1910							
	LTE FDD Band IV	1710 — 1755							

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LTE FDD Band V	824	_	849
LTE FDD Band XIII	777	_	787
LTE FDD Band XXV	1850		1915
CDMA (BC0)	824.7	_	848.31
CDMA (BC1)	1851.25		1908.75
CDMA (BC10)	817.9	4-6	823.1
WLAN802.11 b/g/n(20M)	2412		2462
WLAN802.11 n(40M)	2422		2452
WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	_	5240
WLAN802.11 n(40M)/ac(40M) 5.2G	5190	_	5230
WLAN802.11 ac(80M) 5.2G	5210		
WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260		5320
WLAN802.11 n(40M)/ac(40M) 5.3G	5270	_	5310
WLAN802.11 ac(80M) 5.3G		5290	
WLAN802.11 a/n(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	5710		5795
WLAN802.11 ac(80M) 5.8G		5775	
Bluetooth	2402	_	2480
	LTE FDD Band XIII LTE FDD Band XXV CDMA (BC0) CDMA (BC1) CDMA (BC10) WLAN802.11 b/g/n(20M) WLAN802.11 n(40M) WLAN802.11 a/n(20M)/ac(20M) 5.2G WLAN802.11 n(40M)/ac(40M) 5.2G WLAN802.11 a/n(20M)/ac(20M) 5.3G WLAN802.11 a/n(20M)/ac(20M) 5.3G WLAN802.11 n(40M)/ac(40M) 5.3G WLAN802.11 ac(80M) 5.3G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(20M) 5.6G WLAN802.11 ac(40M) 5.6G WLAN802.11 ac(40M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 ar(40M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(80M) 5.6G	LTE FDD Band XIII 777 LTE FDD Band XXV 1850 CDMA (BC0) 824.7 CDMA (BC1) 1851.25 CDMA (BC10) 817.9 WLAN802.11 b/g/n(20M) 2412 WLAN802.11 n(40M) 2422 WLAN802.11 a/n(20M)/ac(20M) 5.2G 5180 WLAN802.11 a(80M) 5.2G 5190 WLAN802.11 ac(80M) 5.2G WLAN802.11 a/n(20M)/ac(20M) 5.3G 5260 WLAN802.11 a(80M) 5.3G 5270 WLAN802.11 ac(80M) 5.3G 5270 WLAN802.11 a/n(20M)/ac(40M) 5.3G 5500 WLAN802.11 a/n(20M) 5.6G 5500 WLAN802.11 ac(20M) 5.6G 5510 WLAN802.11 ac(40M) 5.6G 5510 WLAN802.11 ac(80M) 5.6G 5530 WLAN802.11 a/n(20M)/ac(20M) 5.8G 5745 WLAN802.11 n(40M)/ac(40M) 5.8G 5710 WLAN802.11 ac(80M) 5.8G 5710 WLAN802.11 ac(80M) 5.8G 5710 WLAN802.11 ac(80M) 5.8G 5710	LTE FDD Band XIII LTE FDD Band XXV CDMA (BC0) CDMA (BC1) CDMA (BC1) CDMA (BC10) WLAN802.11 b/g/n(20M) WLAN802.11 n(40M) WLAN802.11 a/n(20M)/ac(20M) 5.2G WLAN802.11 a/n(20M)/ac(40M) 5.2G WLAN802.11 a(80M) 5.2G WLAN802.11 a/n(20M)/ac(20M) 5.3G WLAN802.11 a/n(20M)/ac(20M) 5.3G WLAN802.11 a/n(20M)/ac(40M) 5.3G WLAN802.11 a/n(20M)/ac(40M) 5.3G WLAN802.11 a/n(20M)/ac(40M) 5.3G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(20M) 5.6G WLAN802.11 ac(40M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(80M) 5.6G S510 WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(80M) 5.6G S5745 WLAN802.11 ac(80M) 5.8G WLAN802.11 ac(80M) 5.8G S775

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	GPRS850	128	_	251
	GPRS1900	512	_	810
	WCDMA Band II	9262	_	9538
	WCDMA Band IV	1312		1513
	WCDMA Band V	4132	1 6 7	4233
	LTE FDD Band II	18607		19193
Channel Number (ARFCN)	LTE FDD Band IV	19957	_	20393
(viid 5/4)	LTE FDD Band V	20407	_	20643
	LTE FDD Band XIII	23205		23255
	LTE FDD Band XXV	26047	_	26683
	CDMA (BC0)	1013		777
	CDMA (BC1)	25	_	1175
	CDMA (BC10)	476		684

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WLAN802.11 b/g/n(20M)	1		11
WLAN802.11 n(40M)	3		9
WLAN802.11 a/n(20M)/ac(20M) 5.2G	36		48
WLAN802.11 n(40M)/ac(40M) 5.2G	38	_	46
WLAN802.11 ac(80M) 5.2G		42	
WLAN802.11 a/n(20M)/ac(20M) 5.3G	52	4-	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	142	4 + 1	159
WLAN802.11 ac(80M) 5.8G		155	
Bluetooth	0		78
	WLAN802.11 n(40M) WLAN802.11 a/n(20M)/ac(20M) 5.2G WLAN802.11 n(40M)/ac(40M) 5.2G WLAN802.11 ac(80M) 5.2G WLAN802.11 a/n(20M)/ac(20M) 5.3G WLAN802.11 n(40M)/ac(40M) 5.3G WLAN802.11 ac(80M) 5.3G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(20M) 5.6G WLAN802.11 ac(40M) 5.6G WLAN802.11 ac(40M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 ac(80M) 5.6G WLAN802.11 a/n(20M)/ac(20M) 5.8G WLAN802.11 a/n(20M)/ac(40M) 5.8G WLAN802.11 ac(80M) 5.8G	WLAN802.11 n(40M) 3 WLAN802.11 a/n(20M)/ac(20M) 5.2G 36 WLAN802.11 n(40M)/ac(40M) 5.2G 38 WLAN802.11 ac(80M) 5.2G WLAN802.11 a/n(20M)/ac(20M) 5.3G 52 WLAN802.11 n(40M)/ac(40M) 5.3G 54 WLAN802.11 ac(80M) 5.3G 100 WLAN802.11 ac(80M) 5.6G 100 WLAN802.11 n(40M) 5.6G 102 WLAN802.11 ac(40M) 5.6G 102 WLAN802.11 ac(80M) 5.6G 106 WLAN802.11 ac(80M) 5.6G 149 WLAN802.11 n(40M)/ac(40M) 5.8G 142 WLAN802.11 ac(80M) 5.8G 142 WLAN802.11 ac(80M) 5.8G 142	WLAN802.11 n(40M) 3 WLAN802.11 a/n(20M)/ac(20M) 5.2G 36 WLAN802.11 n(40M)/ac(40M) 5.2G 38 WLAN802.11 ac(80M) 5.2G 42 WLAN802.11 a/n(20M)/ac(20M) 5.3G 52 WLAN802.11 n(40M)/ac(40M) 5.3G 54 WLAN802.11 ac(80M) 5.3G 58 WLAN802.11 ac(80M) 5.6G 100 WLAN802.11 n(40M) 5.6G 102 WLAN802.11 ac(40M) 5.6G 102 WLAN802.11 ac(80M) 5.6G 106 WLAN802.11 ac(80M) 5.6G 106 WLAN802.11 ac(80M) 5.6G 149 WLAN802.11 ac(80M) 5.8G 142 WLAN802.11 ac(80M) 5.8G 155

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Max. SAR (1 g) (Unit: W/Kg)							
Band		Measured	Reported	Channel	Position		
GPRS 850		0.327	0.518	190	Top side		
GRPS 1900		0.888	0.974	661	Top side		
WCDMA Band II		1.010	1.043	9538	Top side		
WCDMA Band IV		1.270	1.333	1312	Top side		
WCDMA Band V		0.374	0.377	4183	Back side		
LTE FDD Band II		0.937	1.182	19100	Back side		
LTE FDD Band IV		1.280	1.381	20050	Top side		
LTE FDD Band V		0.347	0.490	20600	Back side		
LTE FDD Band XIII		0.340	0.499	23230	Back side		
LTE FDD Band XVII		0.312	0.438	23780	Back side		
LTE FDD Band XXV		1.040	1.236	26140	Top side		
CDMA (BC0)		0.307	0.369	384	Back side		
CDMA (BC1)		1.020	1.103	600	Top side		
CDMA (BC10)		0.289	0.364	684	Back side		

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Max. SAR (1 g) (Unit: W/Kg)								
Antenna	Band	Measured	Reported	Channel	Position			
	WLAN802.11 b	0.2	0.226	11	Top side			
	WLAN802.11 ac(20M) 5.2G	0.582	0.871	44	Top side			
arr	WLAN802.11 ac(20M) 5.3G	0.776	0.92	54	Top side			
Main	WLAN802.11 a 5.6G	1.02	1.103	104	Top side			
	WLAN802.11 ac(20M) 5.6G	0.939	1.185	136	Top side			
	WLAN802.11 ac(80M) 5.6G	1.03	1.099	138	Top side			
	WLAN802.11 ac(80M) 5.8G	0.937	1.042	155	Top side			
	WLAN802.11 b	0.491	0.491	11	Bottom side			
	WLAN802.11 n(20M) 5.2G	0.921	1.012	44	Bottom side			
	WLAN802.11 ac(20M) 5.2G	1.03	1.145	40	Bottom side			
ar	WLAN802.11 a 5.3G	1.36	1.474	56	Bottom side			
	WLAN802.11 n(20M) 5.3G	1.45	1.46	60	Bottom side			
	WLAN802.11 ac(20M) 5.3G	1.41	1.417	56	Bottom side			
Aux	WLAN802.11 n(40M) 5.3G	1.46	1.487	54	Bottom side			
Aux	WLAN802.11 ac(40M) 5.3G	1.44	1.47	54	Bottom side			
	WLAN802.11 a 5.6G	1.1	1.411	120	Bottom side			
	WLAN802.11 n(20M) 5.6G	0.879	0.923	136	Bottom side			
	WLAN802.11 ac(20M) 5.6G	0.631	0.638	136	Bottom side			
	WLAN802.11 n(40M) 5.6G	0.913	1.051	134	Bottom side			
	WLAN802.11 ac(40M) 5.6G	0.784	0.81	142	Bottom side			
	WLAN802.11 ac(80M) 5.8G	0.81	0.817	155	Bottom side			

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GPRS/EDGE conducted power table:

<u> </u>	SE CONTACTO					
Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			32.9	32.9		
			1Dn1UP	1Dn2UP		
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)		
CDDC 0E0	824.2	128	31.00	30.90		
GPRS 850	836.6	190	31.00	30.90		
(GMSK)	848.8	251	31.00	30.90		
	Source-bas	sed tim	e average powe	er		
GPRS 850	824.2	128	21.97	24.88		
(GMSK)	836.6	190	21.97	24.88		
(GIVISK)	848.8	251	21.97	24.88		
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot		
DIVISION TACTOR			-9.03	-6.02		

Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.7	27.7	27.7		
		1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP		
Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)		
824.2	128	26.00	25.90	25.80	25.70		
836.6	190	26.00	25.90	25.80	25.70		
848.8	251	26.00	25.90	25.80	25.70		
	S	ource-based tim	e average powe	er			
824.2	128	16.97	19.88	21.54	22.69		
836.6	190	16.97	19.88	21.54	22.69		
848.8	251	16.97	19.88	21.54	22.69		
The division factor compared to the number of TX time slot							
vision factor		1 TX time slot -9.03	2 TX time slot -6.02	3 TX time slot -4.26	4 TX time slot -3.01		
	Frequency (MHz) 824.2 836.6 848.8 824.2 836.6 848.8 The div	Frequency (MHz) 824.2 128 836.6 190 848.8 251 Series 824.2 128 836.6 190 848.8 251 The division face	ted Avg. Power + olerance (dBm) 27.7 IDn1UP Frequency (MHz) CH Avg. (dBm) 824.2 128 26.00 836.6 190 26.00 848.8 251 26.00 Source-based tim 824.2 128 16.97 836.6 190 16.97 848.8 251 16.97 The division factor compared vision factor Vision factor 1 TX time slot	ted Avg. Power + olerance (dBm) 27.7 The division factor compared to the number of solic part of the following states. ted Avg. Power + olerance (dBm) 27.7 27.7 1Dn1UP 1Dn2UP Avg. (dBm) Avg. (dBm) (dBm) 25.90 25.90 25.90 848.8 251 26.00 25.90 Source-based time average power average power states. 16.97 19.88 848.8 251 16.97 19.88 The division factor compared to the number of states. 2 TX time slot 2 TX time slot	ted Avg. Power + olerance (dBm) 27.7 27.7 27.7 Frequency (MHz) CH (dBm) Avg. (dBm) Avg. (dBm) 824.2 128 26.00 25.90 25.80 836.6 190 26.00 25.90 25.80 848.8 251 26.00 25.90 25.80 Source-based time average power 824.2 128 16.97 19.88 21.54 836.6 190 16.97 19.88 21.54 848.8 251 16.97 19.88 21.54 The division factor compared to the number of TX time slot 4 TX time slot 2 TX time slot 3 TX time slot		

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	Bur	st aver	age power									
	ted Avg. Power olerance (dBr		29	29								
			1Dn1UP	1Dn2UP								
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)								
GPRS	1850.2	512	28.80	28.70								
1900	1880	661	28.70	28.60								
(GMSK)	1909.8	810	28.90	28.80								
	Source-bas	sed tim	e average powe	r								
GPRS	1850.2	512	19.77	22.68								
1900	1880	661	19.67	22.58								
(GMSK)	1909.8	810	19.87	22.78								
The divisi	on factor com	pared	to the number o									
Div	vision factor		1 TX time slot	2 TX time slot								
	VISION TACION		-9.03	-6.02								

	Burst average power													
	ted Avg. Powe olerance (dBr		25.5	25.5	25.5	25.5								
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP								
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)								
EDGE	1850.2	512	24.80	24.70	24.60	24.50								
1900	1880	661	24.80	24.70	24.60	24.50								
(MCS5)	1909.8	810	24.90	24.80	24.70	24.60								
		S	ource-based tim	e average powe	er									
EDGE	1850.2	512	15.77	18.68	20.34	21.49								
1900	1880	661	15.77	18.68	20.34	21.49								
(MCS5)	1909.8	810	15.87	18.78	20.44	21.59								
	The div	ision fa	ctor compared	to the number o	of TX time slot									
Div	ision factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot								
DI	rision ractor		-9.03	-6.02	-4.26	-3.01								

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GPRS/EDGE conducted power table (Reduced power):

of R37 EBOE conducted power table (Reduced power).												
	Bur	st aver	age power									
	ted Avg. Powe olerance (dBr		28.5	28.5								
			1Dn1UP	1Dn2UP								
EUT mode	Frequency	СН	Avg.	Avg.								
LOT MOGE	(MHz)	011	(dBm)	(dBm)								
GPRS 850	824.2	128	28.10	27.50								
(GMSK)	836.6	190	28.10	27.50								
(GIVISK)	848.8	251	28.10	27.50								
	Source-bas	sed tim	e average powe	er								
GPRS 850	824.2	128	19.07	21.48								
(GMSK)	836.6	190	19.07	21.48								
(ACIVID)	848.8	19.07 21.48										
The divisi	The division factor compared to the number of TX time slot											

	Burst average power												
	ted Avg. Powe olerance (dBn		22.5	22.5	22.5	22.5							
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP							
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
EDCE SEO	824.2	128	22.10	22.10	22.10	22.10							
EDGE 850	836.6	190	22.10	22.10 22.10		22.10							
(MCS5)	848.8	251	22.10	22.10	22.10	22.10							
		S	ource-based tim	e average powe	er								
EDGE 850	824.2	128	13.07	16.08	17.84	19.09							
	836.6	190	13.07	16.08	17.84	19.09							
(MCS5)	848.8	251	13.07	16.08	17.84	19.09							
	The div	ision fa	actor compared	to the number o	of TX time slot								
Div	ision factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot							
DIV	rision ractor		-9.03	-6.02	-4.26	-3.01							

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	Bur	st aver	age power								
	ted Avg. Powe olerance (dBr		27	27							
			1Dn1UP	1Dn2UP							
EUT mode	Frequency	СН	Avg.	Avg.							
LOT Mode	(MHz)	011	(dBm)	(dBm)							
GPRS	1850.2	512	26.80	26.70							
1900	1880	661	26.70	26.70							
(GMSK)	1909.8	810	26.70 26.80								
	Source-bas	sed tim	e average powe	er							
GPRS	1850.2	512	17.77	20.68							
1900	1880	661	17.67	20.68							
(GMSK)	1909.8	810	17.67	20.78							
The divisi	on factor com	pared	to the number of TX time s								
Div	ision factor		1 TX time slot	2 TX time slot							
Div	rision ractor		-9.03	-6.02							

Burst average power													
			Burst avera	age power									
	ted Avg. Powe olerance (dBr		23.5	23.5	23.5	23.5							
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP							
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
EDGE	1850.2	512	23.50	23.50	23.50	23.40							
1900	1880	661	23.50	23.50	23.50	23.40							
(MCS5)	1909.8	810	23.50	23.50	23.50	23.40							
		S	ource-based tim	e average powe	er								
EDGE	1850.2	512	14.47	17.48	19.24	20.39							
1900	1880	661	14.47	17.48	19.24	20.39							
(MCS5)	1909.8	810	14.47	17.48	19.24	20.39							
	The div	ision fa	actor compared	to the number of	of TX time slot								
Div	vision factor			2 TX time slot									
			-9.03	-6.02	-4.26	-3.01							

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WCDMA Band II / Band IV / Band V - HSDPA / HSUPA conducted power table:

		Max.		-	HSDPA mod	de AV(dBm)		HSUP	A mode AV	(dBm)		HSPA+ mode AV(dBm)				
Band	СН	Rated Avg. Power +	Rel99														
		Max.	AV(dBm)	SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5
		Tolerance															
		(dBm)															
WCDMA	9262	23	22.76	22.16	21.64	21.68	21.75	22.68	20.73	20.74	20.86	20.82	22.61	20.59	21.58	20.70	22.41
Band II	9400	23	22.79	22.21	21.65	21.76	21.77	22.77	20.84	20.79	20.89	20.88	22.74	20.78	21.73	20.82	22.59
Rel 7	9538	23	22.86	22.24	21.71	21.71	21.83	22.80	20.84	20.88	20.88	20.99	22.75	20.74	21.76	20.78	22.61
WCDMA	1312	23	22.79	22.35	21.67	21.87	21.94	22.71	20.76	20.77	20.89	21.13	22.64	20.62	21.61	20.73	22.44
Band IV	1412	23	22.88	22.38	21.74	21.93	21.94	22.86	20.93	20.88	20.98	21.27	22.83	20.87	21.82	20.91	22.68
Rel 7	1513	23	22.68	22.30	21.53	21.77	21.89	22.62	20.66	20.70	20.7	21.25	22.57	20.56	21.58	20.60	22.43
WCDMA	4132	23	22.14	21.50	21.07	21.04	21.09	22.10	20.16	20.14	20.21	20.98	22.07	20.10	21.05	20.13	21.88
Band V	4183	23	22.27	21.67	21.16	21.19	21.23	22.20	20.28	20.26	20.34	21.06	22.12	20.14	21.12	20.20	21.89
Rel 7	4233	23	22.17	21.52	21.04	21.03	21.09	22.09	20.13	20.17	20.21	20.92	22.00	19.97	20.99	20.03	21.82

HSDPA

SUB-TEST	eta_{c}	$eta_{\sf d}$	β _d (SF)	β_{c}/β_{d}	β _{HS} (<i>Note1, Note 2</i>)	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

1130171													
SUB-TEST	eta_{c}	β _d	β _d (SF)	β_c/β_d	β _{HS} (Note1)	eta_{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	eta_{ed} 1: 47/15 eta_{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):

(Pollo	· / ·														
		Max.		-	HSDPA mod	de AV(dBm)		HSUP	A mode AV	(dBm)		HSPA+ mode AV(dBm)				
Band	СН	Rated Avg. Power + Max. Tolerance (dRm)	Rel99 AV(dBm)	SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5
WCDMA	9262	20	19.61	18.84	18.49	18.36	18.43	19.53	17.58	17.59	17.71	18.19	19.46	17.44	18.43	17.55	19.26
Band II	9400	20	19.63	18.93	18.49	18.48	18.49	19.61	17.68	17.63	17.73	18.31	19.58	17.62	18.57	17.66	19.43
Rel 7	9538	20	19.67	19.02	18.52	18.49	18.61	19.61	17.65	17.69	17.69	18.42	19.56	17.55	18.57	17.59	19.42
WCDMA	1312	19	17.62	17.11	16.50	16.63	16.7	17.54	15.59	15.60	15.72	16.44	17.47	15.45	16.44	15.56	17.27
Band IV	1412	19	17.67	17.08	16.53	16.63	16.64	17.65	15.72	15.67	15.77	16.25	17.62	15.66	16.61	15.70	17.47
Rel 7	1513	19	17.61	17.14	16.46	16.61	16.73	17.55	15.59	15.63	15.63	16.28	17.50	15.49	16.51	15.53	17.36
WCDMA	4132	20	19.90	19.44	18.83	18.98	19.03	19.86	17.92	17.90	17.97	18.72	19.83	17.86	18.81	17.89	19.64
Band V	4183	20	19.96	19.31	18.85	18.83	18.87	19.89	17.97	17.95	18.03	18.64	19.81	17.83	18.81	17.89	19.58
Rel 7	4233	20	19.84	19.25	18.71	18.76	18.82	19.76	17.8	17.84	17.88	18.53	19.67	17.64	18.66	17.70	19.49

HSDPA

SUB-TEST	β_{c}	β_{d}	β _d (SF)	β_c/β_d	β _{HS} (<i>Note1, Note 2</i>)	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

HSLIPA

HOUFA													
SUB-TEST	eta_{c}	$eta_{ t d}$	β _d (SF)	β _c /β _d	β _{HS} (Note1)	eta_{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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LTE FDD Band II/ Band IV/ Band V/ Band XIII/ Band XVII / Band XXV power table:

			nd V/ Ba FDD Ba	ınd 2 (Full				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1860	18700	22.32	23	0
			0	1880	18900	22.30	23	0
				1900	19100	22.24	23	0
				1860	18700	22.25	23	0
		1 RB	50	1880	18900	22.40	23	0
				1900	19100	22.25	23	0
				1860	18700	22.10	23	0
			99	1880	18900	22.21	23	0
				1900	19100	22.42	23	0
				1860	18700	21.17	22	0-1
	QPSK		0	1880	18900	21.14	22	0-1
			04 1	1900	19100	21.10	22	0-1
				1860	18700	21.15	22	0-1
		50 RB	25	1880	18900	21.16	22	0-1
				1900	19100	21.04	22	0-1
				1860	18700	21.16	22	0-1
			50	1880	18900	21.08	22	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
				1900	19100	21.08	22	0-1
				1860	18700	21.18	22	0-1
		100)RB	1880	18900	21.20	22	0-1
20				1900	19100	21.19	22	0-1
				1860	18700	21.49	22	0-1
			0	1880	18900	21.42	22	
				1900	19100	21.01	22	•
				1860	18700	21.29	22	1
		1 RB	50	1880	18900	21.16	22	0-1
				1900	19100	21.22	22	
			00	1860	18700	21.51	22	0-1
			99	1880	18900	21.26	22	0-1
				1900	19100	21.30	22	0-1
	40.0444		0	1860	18700	20.15	21	0-2
	16-QAM		0	1880	18900	20.13	21	0-2
				1900	19100	20.05	21	0-2
		EU DD	25	1860	18700	20.17	21	0-2
		50 RB	25	1880	18900	20.15	21	0-2
				1900	19100	20.10	21	0-2
			50	1860	18700	20.06	21	0-2
			50	1880	18900	20.05	21	0-2
]			1900	19100	20.08	21	0-2
		100)RB	1860	18700	20.12	21	0-2
		100	ND	1880 1900	18900 19100	20.19	21 21	0-2 0-2

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			EDD Ba	and 2 (Full	Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1857.5	18675	22.11	23	0
			0	1880	18900	22.23	23	0
				1902.5	19125	22.19	23	0
				1857.5	18675	22.29	23	0
F-0 A		1 RB	36	1880	18900	22.17	23	0
				1902.5	19125	22.07	23	0
				1857.5				0
			74	1880	18900		23	0
				1902.5	Channel power (dBm) Power Max. Tolerand 18675 22.11 23 18900 22.23 23 18675 22.29 23 18900 22.17 23 18675 22.22 23 18900 22.16 23 18675 21.15 22 18900 21.17 22 18675 21.06 22 18900 21.17 22 18900 21.17 22 18900 21.17 22 18900 21.17 22 18900 21.17 22 18900 21.17 22 18900 21.17 22 18900 21.17 22 18900 21.06 22 18900 21.06 22 18900 21.06 22 18900 21.06 22 18900 20.98 22 18675 21.07 22 18900 20.98 22 18675 21.07 22 18900 21.25 22 18900 21.25 22 18900 21.25 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18900 21.07 22 18675 20.87 22 18900 21.00 22 18900 20.16 21 18900 20.16 21 19125 19.96 21	23	0	
				1857.5	18675	21.15	22	0-1
	QPSK		0	1880	18900	21.19	22	0-1
				1902.5	19125	21.03	22	0-1
				1857.5	18675	21.07	21.15 22 0-1 21.19 22 0-1 21.03 22 0-1 21.07 22 0-1 21.17 22 0-1 21.06 22 0-1 21.06 22 0-1 21.06 22 0-1 21.09 22 0-1 21.09 22 0-1 20.98 22 0-1 20.96 22 0-1	0-1
		36 RB	18	1880	18900	21.17	22	0-1
				1902.5	19125	21.06	22	0-1
				1857.5	18675	21.06	22	0-1
			37	1880	18900	21.06	22	0-1
				1902.5	19125	21.13	22	0-1
				1857.5	18675	21.09	22	0-1
FO A			RB	1880	18900	20.98	22	0-1
15				1902.5	19125	20.96	22	0-1
10				1857.5	18675	21.04	22	0-1
			0	1880	18900	21.25	22	0-1
			37 75RB	1902.5	19125	21.07	22	0-1
				1857.5	18675	21.22	22	0-1
		1 RB	36	1880	18900	21.07	22	0-1
				1902.5	19125	21.42	22	0-1
			64 T	1857.5	18675	20.87	22	0-1
			74	1880	18900	21.00	22	0-1
				1902.5	19125	21.42	22	0-1
				1857.5	18675	20.14	21	0-2
	16-QAM		0	1880	18900	20.16	21	0-2
				1902.5	19125	19.96	21	0-2
				1857.5	18675	20.09	21	0-2
700		36 RB	18	1880	18900	20.08	21	0-2
	1			1902.5	19125	20.07	21	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
				1857.5	18675	19.97	21	0-2
			37	1880	18900	20.04	21	0-2
				1902.5	19125	20.15	21	0-2
				1857.5	18675	20.04	21	0-2
		75	RB	1880	18900	20.02	21	0-2
				1902.5	19125	19.93	21	0-2

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			FDD Ba	and 2 (Full	Power)					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)		
				1855	18650	22.09	23	0		
			0	1880	18900	22.17	23	0		
				1905	19150	21.96	23	0		
				1855	18650	22.22	23	0		
CO YE		1 RB	25	1880	18900	22.08	23	0		
				1905	19150	22.19	23	0		
				1855	18650	22.10	23	0		
			49	1880	18900	22.15	23	0		
				1905	19150	22.38	23	0		
				1855	18650	21.13	22	0-1		
	QPSK		0	1880	18900	21.23	22	0-1		
				1905	19150	21.13	22	0-1		
				1855	18650	21.08	22	0-1		
		25 RB	12	1880	18900	21.24	22	0-1		
				1905	19150	21.17	22	0-1		
				1855	18650	21.11	22	0-1		
			25	1880	18900	21.15	22	0-1		
				1905	19150	21.26	22	0-1		
				1855	18650	21.00	22	0-1		
		50	RB	1880	18900	21.01	22	0-1 0-1 0-1		
10				1905	19150	20.96	22	0-1		
				1855	18650	21.30	22	0-1		
			0	1880	18900	20.92	22	0-1		
				1905	19150	21.15	22	0-1		
				1855	18650	21.02	22	0-1		
		1 RB	25	1880	18900	21.15	22	0-1		
				1905	19150	21.15	22	0-1		
				1855	18650	21.32	22	0-1		
			49	1880	18900	21.02	22	0-1		
				1905	19150	21.59	22	0-1		
				1855	18650	20.05	21	0-2		
	16-QAM		0	1880	18900	20.12	21	0-2		
				1905	19150	20.20	21	0-2		
1 04		05.55	40	1855	18650	20.09	21	0-2		
		25 RB	12	1880	18900	20.16	21	0-2		
				1905	19150	20.14	21	0-2		
			0.5	1855	18650	20.15	21	0-2		
			25	1880	18900	20.09	21	0-2		
				1905	19150	20.17	21	0-2		
				1855	18650	19.93	21	0-2		
		50	RB	1880	18900	20.09	21	0-2		
				1905	19150	19.97	21	0-2		

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			EDD 5	10 /5	D ,			
			FDD Ba	nd 2 (Full	Power)	.	Target	Lupp
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1852.5	18625	22.04	23	0
			0	1880	18900	22.31	23	0
C CA				1907.5	19175	22.21	23	0
				1852.5	18625	22.06	23	0
		1 RB	12	1880	18900	22.24	23	0
				1907.5	19175	21.98	23	0
				1852.5	18625	22.14	23	0
			24	1880	18900	22.20	23	0
				1907.5	19175	22.40	23	Max. olerance 23 0 23 0 23 0 23 0 23 0 23 0 23 0 23
				1852.5	18625	21.13	22	0-1
	QPSK		0	1880	18900	21.29	22	0-1
				1907.5	19175	21.28	22	0-1
				1852.5	18625	21.18	22	0-1
		12 RB	6	1880	18900	21.31	22	0-1
				1907.5	19175	21.34		
				1852.5	18625	21.21		
			13	1880	18900	21.32		
				1907.5	19175	21.42		
				1852.5	18625	21.16		
		25RB		1880	18900	21.17		
5				1907.5	19175	21.27		
			0	1852.5	18625	21.26		•
				1880	18900	21.21		
				1907.5	19175	21.19		
				1852.5	18625	20.95		1
		1 RB	12	1880	18900	21.15		1
				1907.5	19175	21.42		1
			0.4	1852.5	18625	21.37		1
			24	1880	18900	21.17		
				1907.5	19175	21.17		
	40 0 4 14		0	1852.5	18625	20.24		
	16-QAM		0	1880	18900	20.28		
				1907.5	19175	20.25		
		12 RB	6	1852.5	18625	20.28		
		IZ ND		1880	18900	20.37		
				1907.5 1852.5	19175	20.34		
			13	1852.5	18625	20.11		
			13	1880	18900	20.23		
				1907.5	19175	20.41		
		25	RB	1852.5 1880	18625 18900	20.16	21	0-2
		25		1880		20.24		
				1907.5	19175	20.22	21	0-2

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			FDD Ba	and 2 (Full	Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1851.5	18615	21.92	23	0
			0	1880	18900	22.25	23	0
				1908.5	19185	22.21	23	0
				1851.5	18615	22.17	23	0
		1 RB	7	1880	18900	22.29	23	0
				1908.5	19185	22.30	23	0
				1851.5	18615	22.24	23	0
			14	1880	18900	22.25	23	0
				1908.5	19185	22.36	23	0
				1851.5	18615	21.21	22	0-1
	QPSK		0	1880	18900	21.26	22	0-1
				1908.5	19185	21.29	22	0-1
				1851.5	18615	21.21	22	0-1
		8 RB	4	1880	18900	21.27	22	0-1
				1908.5	19185	21.36	22	0-1
				1851.5	18615	21.22	22	0-1
			7	1880	18900	21.24	22	0-1
				1908.5	19185	21.41	22	0-1
					18615	21.10	22	0-1
		15	RB	1880	18900	21.28	22	0-1
3				1908.5	19185	21.28	22	0-1
9				1851.5	18615	21.00	22	0-1
			0	1880	18900	21.07	22	0-1
				1908.5	19185	21.12	22	0-1
				1851.5	18615	21.31	22	0-1
		1 RB	7	1880	18900	21.24	22	0-1
				1908.5	19185	21.52	22	0-1
				1851.5	18615	20.98	22	0-1
			14	1880	18900	21.56	22	0-1
				1908.5	19185	21.65	22	0-1
				1851.5	18615	20.02	21	0-2
	16-QAM		0	1880	18900	20.20	21	0-2
				1908.5	19185	20.07	21	0-2
				1851.5	18615	20.19	21	0-2
		8 RB	4	1880	18900	20.18	21	0-2
				1908.5	19185	20.27	21	0-2
				1851.5	18615	20.13	21	0-2
			7	1880	18900	20.09	21	0-2
] .			1908.5	19185	20.37	21	0-2
				1851.5	18615	20.09	21	0-2
		15	RB	1880	18900	20.23	21	0-2
				1908.5	19185	20.27	21	0-2

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			EDD Ba	and 2 (Full	Dowor)			
			LDD RS	nd 2 (Full	Power)		Taract	1
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1850.7	18607	22.07	23	0
			0	1880	18900	22.13	23	0
0.4				1909.3	19193	22.22	23	0
				1850.7	18607	22.03	23	0
		1 RB	2	1880	18900	22.25	23	0
				1909.3	19193	22.33	23	0
				1850.7	18607	22.20	23	0
			5	1880	18900	22.24	23	0
				1909.3	19193	22.35	23	0
				1850.7	18607	22.09	22	0-1
	QPSK		0	1880	18900	22.31	22	0-1
			AL.	1909.3	19193	22.38	22	
				1850.7	18607	22.13	22	
		3 RB	2	1880	18900	22.22	22	
				1909.3	19193	22.41	22	
				1850.7	18607	22.05	22	
			3	1880	18900	22.20	22	
				1909.3	19193	22.38	22	
				1850.7	18607	21.17	22	
		6F	RB	1880	18900	21.30	22	
1.4			1	1909.3	19193	21.39	22	
				1850.7	18607	21.36	22	
			0	1880	18900	21.22	22	
				1909.3	19193	21.21	22	1
		4.00		1850.7	18607	20.80	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		1 RB	2	1880	18900	21.56	22	
				1909.3	19193	21.20	22	
			E	1850.7	18607	21.34	22	1
			5	1880	18900	20.96	22	
				1909.3	19193	21.34	22	1
	16-QAM		0	1850.7	18607	21.16	21	
	10-QAW		J	1880 1909.3	18900 19193	21.27 21.38	21 21	
- Ca				1850.7	18607			
		3 RB	2	1880	18900	21.05 21.27	21 21	
		סוגט		1909.3	19193	21.43	21	
				1850.7	18607	21.43	21	
			3	1880	18900	21.19	21	
				1909.3	19193	21.19	21	
				1850.7	18607	20.16	21	
		6F	RB	1880	18900	20.10	21	•
		OI.		1909.3	19193	20.23	21	1

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		F	DD Band	2 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1860	18700	18.82	20	0
			0	1880	18900	18.83	20	0
0.4				1900	19100	18.85	20	0
				1860	18700	18.95	20	0
		1 RB	50	1880	18900	18.92	20	0
				1900	19100	18.83	20	0
				1860	18700	18.86	20	0
			99	1880	18900	18.82	20	0
				1900	19100	18.99	20	0
				1860	18700	18.86	20	0-1
	QPSK		0	1880	18900	18.74	20	0-1
				1900	19100	18.65	20	0-1
			64	1860	18700	18.81	20	0-1
		50 RB	25	1880	18900	18.71	20	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O O
				1900	19100	18.63	20	0-1
				1860	18700	18.78	20	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
			50	1880	18900	18.71	20	
				1900	19100	18.71	20 20	0-1 0-1 0-1 0-1 0-1
				1860	18700	18.75		
100		100)RB	1880	18900	18.76	20	
20				1900	19100	18.75	20	0-1
			_	1860	18700	18.84	20	
			0	1880	18900	18.91	20	
				1900	19100	18.81	20	
				1860	18700	18.89	20	
		1 RB	50	1880	18900	18.97	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1900	19100	18.82	20	
				1860	18700	18.87	20	
			99	1880	18900	18.80	20	
				1900	19100	18.98	20	
	40.044			1860	18700	18.69	20	
	16-QAM		0	1880	18900	18.68	20	
				1900	19100	18.61	20	
		50 DD	25	1860	18700	18.81	20	
10		50 RB	25	1880	18900	18.70	20	
				1900	19100	18.69	20	0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1
			50	1860	18700	18.81	20	
			50	1880	18900	18.66	20	
				1900	19100	18.66	20	
		400	NDD.	1860	18700	18.82	20	0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-
		100)RB	1880	18900	18.71	20	
				1900	19100	18.70	20	0-2

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			IDD Band	2 (Reduc	od Dowo	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1857.5	18675	18.69	20	0
			0	1880	18900	18.81	20	0
				1902.5	19125	18.70	20	0
				1857.5	18675	18.79	20	0
		1 RB	36	1880	18900	18.85	20	0
				1902.5	19125	18.80	20	0
				1857.5	18675	18.88	20	0
			74	1880	18900	18.76	20	0
				1902.5	19125	18.90	20	0
				1857.5	18675	18.65	20	0-1
	QPSK		0	1880	18900	18.66	20	0-1
				1902.5	19125	18.55	20	Allowed per 3GPP(dB) rance 20
			ed I	1857.5	18675	18.70	20	
		36 RB	18	1880	18900	18.67	20	0-1
				1902.5	19125	18.62	20	0-1
				1857.5	18675	18.68	20	0-1
			37	1880	18900	18.64	20	0-1
				1902.5	19125	18.72	20	0-1
				1857.5	18675	18.63	20	0-1
		75		1880	18900	18.58	20	0-1
15				1902.5	19125	18.56	20	0-1
10			75RB 0	1857.5	18675	18.63	20	0-1
				1880	18900	18.79	20	0-1
				1902.5	19125	18.60	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-
				1857.5	18675	18.77	20	0-1
		1 RB	36	1880	18900	18.78	20	0-1
				1902.5	19125	18.79	20	0-1
				1857.5	18675	18.78	20	0-1
			74	1880	18900	18.67	20	0-1
				1902.5	19125	18.93	20	0-1
				1857.5	18675	18.64	20	1
	16-QAM		0	1880	18900	18.65	20	
				1902.5	19125	18.56	20	
(04		00 55	40	1857.5	18675	18.73	20	
		36 RB	18	1880	18900	18.64	20	
				1902.5	19125	18.60	20	0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2
			07	1857.5	18675	18.70	20	
			37	1880	18900	18.60	20	-
				1902.5	19125	18.69	20	
		7-	DD.	1857.5	18675	18.59	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-
		/5	RB	1880	18900	18.59	20	
				1902.5	19125	18.50	20	0-2

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		F	DD Band	2 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1855	18650	18.67	20	0
			0	1880	18900	18.79	20	0
				1905	19150	18.63	20	0
				1855	18650	18.74	20	0
		1 RB	25	1880	18900	18.77	20	0
				1905	19150	18.76	20	0
				1855	18650	18.82	20	0
			49	1880	18900	18.67	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0
				1905	19150	18.87	20	0
				1855	18650	18.64	20	0-1
	QPSK		0	1880	18900	18.70	20	0-1
				1905	19150	18.63	20	0-1
				1855	18650	18.74	20	0-1
		25 RB	12	1880	18900	18.71	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1905	19150	18.73	20	
				1855	18650	18.76	20	
			25	1880	18900	18.65	20	
				1905	19150	18.69	20	0-1
				1855	18650	18.56	20	0-1
		50	RB	1880	18900	18.57	20	0-1
10				1905	19150	18.48	20	0-1
				1855	18650	18.67	20	0-1
			0	1880	18900	18.73	20	0-1
			25 50RB	1905	19150	18.67	20	
				1855	18650	18.76	20	0-1
		1 RB	25	1880	18900	18.77	20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1905	19150	18.78	20	
				1855	18650	18.72	20	
			49	1880	18900	18.75	20	0-1
				1905	19150	18.82	20	0-1
				1855	18650	18.60	20	
	16-QAM		0	1880	18900	18.71	20	
				1905	19150	18.65	20	
				1855	18650	18.67	20	
		25 RB	12	1880	18900	18.67	20	
				1905	19150	18.70	20	
				1855	18650	18.66	20	
			25	1880	18900	18.71	20	
] ,			1905	19150	18.67	20	
				1855	18650	18.49	20	
		50	RB	1880	18900	18.56	20	
				1905	19150	18.46	20	0-2

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		F	DD Band	2 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1852.5	18625	18.60	20	0
			0	1880	18900	18.82	20	0
				1907.5	19175	18.79	20	0
				1852.5	18625	18.73	20	0
		1 RB	12	1880	18900	18.78	20	0
				1907.5	19175	18.76	20	0
				1852.5	18625	18.68	20	0
			24	1880	18900	18.77	20	0
				1907.5	19175	18.92	20	0
				1852.5	18625	18.61	20	0-1
	QPSK		0	1880	18900	18.85	20	0-1
				1907.5	19175	18.70	20	0-1
			0-1/1	1852.5	18625	18.70	20	0-1
		12 RB	6	1880	18900	18.79	20	0-1
				1907.5	19175	18.73	20	0-1
				1852.5	18625	18.78	20	0-1
			13	1880	18900	18.81	20	0-1
				1907.5	19175	18.84	20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-
				1852.5	18625	18.61	20	0-1
		25	RB	1880	18900	18.68	20	0-1
5				1907.5	19175	18.72	20	0-1
				1852.5	18625	18.66	20	0-1
			0	1880	18900	18.77	20	0-1
				1907.5	19175	18.79	20	0-1
				1852.5	18625	18.73	20	0-1
		1 RB	12	1880	18900	18.82	20	0-1
				1907.5	19175	18.79	20	0-1
				1852.5	18625	18.72	20	0-1
			24	1880	18900	18.75	20	0-1
				1907.5	19175	18.86	20	0-1
				1852.5	18625	18.70	20	0-2
	16-QAM		0	1880	18900	18.81	20	0-2
				1907.5	19175	18.74	20	0-2
				1852.5	18625	18.77	20	0-2
		12 RB	6	1880	18900	18.77	20	0-2
				1907.5	19175	18.81	20	0-2
				1852.5	18625	18.76	20	0-2
			13	1880	18900	18.81	20	0-2
				1907.5	19175	18.83	20	0-2
	[1852.5	18625	18.65	20	0-2
		25	RB	1880	18900	18.65	20	0-2
				1907.5	19175	18.69	20	0-2

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			DD Dand	0 /Dadua	ad Dawe	٠)		
			שט Band	2 (Reduc	ea Powel)	Toract	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1851.5	18615	18.64	20	0
			0	1880	18900	18.76	20	0
				1908.5	19185	18.78	20	0
	\			1851.5	18615	18.68	20	0
		1 RB	7	1880	18900	18.75	20	0
				1908.5	19185	18.81	20	0
				1851.5	18615	18.75	20	0
			14	1880	18900	18.75	20	0
				1908.5	19185	18.92	20	0
				1851.5	18615	18.70	20	0-1
	QPSK		0	1880	18900	18.80	20	0-1
				1908.5	19185	18.78	20	0-1
			ed I	1851.5	18615	18.71	20	0-1
		8 RB	4	1880	18900	18.78	20	0-1
				1908.5	19185	18.80	20	0-1 0-1
				1851.5	18615	18.70	20	
			7	1880	18900	18.77	20	0-1
				1908.5	19185	18.86	20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-
				1851.5	18615	18.71	20	0-1
		15	RB	1880	18900	18.81	20	0-1
3				1908.5	19185	18.83	20	0-1
				1851.5	18615	18.65	20	0-1
			0	1880	18900	18.77	20	0-1
				1908.5	19185	18.80	20	
				1851.5	18615	18.77	20	
		1 RB	7	1880	18900	18.80	20	
				1908.5	19185	18.81	20	
				1851.5	18615	18.71	20	1
			14	1880	18900	18.76	20	
				1908.5	19185	18.86	20	
	40.0414			1851.5	18615	18.60	20	
	16-QAM		0	1880	18900	18.66	20	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-
				1908.5	19185	18.71	20	
		8 RB	4	1851.5	18615	18.61	20	
		O ND	+	1880	18900	18.69	20	
				1908.5 1851.5	19185	18.74 18.60	20	
			7		18615 18900		20	
			'	1880 1908.5	19185	18.74 18.83	20	
				1851.5	18615	18.69	20	
		15	RB	1880	18900	18.80	20	
		15		1908.5	19185	18.84	20	

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		F	DD Band	2 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	
				1850.7	18607	18.72	20	0
			0	1880	18900	18.80	20	0
				1909.3	19193	18.87	20	0
				1850.7	18607	18.73	20	0
		1 RB	2	1880	18900	18.81	20	0
				1909.3	19193	18.87	20	0
				1850.7	18607	18.69	20	0
			5	1880	19193 18.87 20 18607 18.73 20 18900 18.81 20 19193 18.87 20	20	0	
				1909.3	19193	18.92	20	0
				1850.7	1909.3 19193 18.92 1850.7 18607 18.70 1880 18900 18.79 1909.3 19193 18.95 1850.7 18607 18.72 1880 18900 18.84 1909.3 19193 18.89 1850.7 18607 18.65 1880 18900 18.78 1909.3 19193 18.89	20	0-1	
	QPSK		0	1880	18900	18.79	20	0-1
				1909.3	19193	18.95	Power Power + Max. Allowed per SGPP(dB) Tolerance 18.72 20 0 0 18.87 20 0 0 18.87 20 0 0 18.87 20 0 0 18.87 20 0 0 18.87 20 0 0 18.87 20 0 0 18.78 20 0 0 18.79 20 0 0 18.79 20 0 0 18.79 20 0 0 18.79 20 0 0 18.88 20 0 0 18.88 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.89 20 0 0 18.73 20 0 0 18.73 20 0 0 18.73 20 0 0 18.73 20 0 0 18.73 20 0 0 18.73 20 0 0 18.73 20 0 0 18.79 20 0 0 2 18.86 20 0 0 2 18.86 20 0 0 2 18.88 20 0 0 2 18.88 20 0 0 2 18.88 20 0 0 2 18.86 20	0-1
				1850.7	18607	18.72		
		3 RB	2	1880	18900	18.84	20	Allowed per 3GPP(dB) (and a second per 3GPP(dB)) (and a se
				1909.3	19193	18.89	20	
				1850.7	18607	18.65	20	
			3	1880	18900	18.78	20	
				1909.3	19193	18.89	20	0-1
			•	1850.7			20	0-1
		6	RB	1880			20	0-1
1.4				1909.3	19193	18.89	20	0-1
1.4				1850.7			20	0-1
			0	1880			20	0-1
				1909.3	19193	18.83	20	0-1
				1850.7			20	0-1
		1 RB	2	1880	18900	18.72	20	0-1
				1909.3	19193	18.90	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1850.7			20	
			5	1880	18900		20	0-1
				1909.3	19193	18.87	20	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O
				1850.7	18607	18.65	20	
	16-QAM		0	1880	18900	18.79	20	0-2
				1909.3	19193	18.86	20	0-2
				1850.7	18607		20	
		3 RB	2	1880	18900			
				1909.3	19193			
				1850.7	18607			
			3	1880	18900			
				1909.3	19193			
			•	1850.7	18607	18.74	20	
		6	RB	1880	18900	18.79	20	
		OND		1909.3	19193	18.90	20	

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			EDD D-	and 4 / F II	Davisin			
			FDD Ba	ınd 4 (Full	Power)		T-: 1	1
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1720	20050	21.83	22.5	0
			0	1732.5	20175	22.08	22.5	0
0.4				1745	20300	21.90	22.5	0
				1720	20050	22.17	22.5	0
		1 RB	50	1732.5	20175	22.12	22.5	0
				1745	20300	22.04	22.5	0
				1720	20050	21.88	22.5	0
			99	1732.5	20175	22.04	22.5	0
				1745	20300	22.49	22.5	0
				1720	20050	20.91	22	0-1
	QPSK		0	1732.5	20175	21.01	22	0-1
			AL.	1745	20300	21.26	22	0-1
				1720	20050	20.96	22	0-1
		50 RB	25	1732.5	20175	20.88	22	0-1
				1745	20300	21.10	22	0-1
			50	1720	20050	20.85	22	0-1
			50	1732.5	20175	20.95	22	0-1
04				1745	20300	20.97	22	0-1
		100RB		1720	20050	20.98	22	0-1
				1732.5	20175	20.96	22	0-1
20				1745	20300	21.12	22	0-1
			0	1720	20050	21.19	22	0-1
			0	1732.5	20175	21.45	22	0-1
				1745	20300	21.39	22	0-1
		4 DD	B 50	1720	20050	21.43	22	0-1
		1 RB		1732.5	20175	21.16	22	0-1
				1745 1720	20300 20050	21.44	22 22	0-1
			99	1732.5	20050	21.30 21.14	22	0-1 0-1
			33	1732.3	20300	21.14	22	0-1
				1720	20050	19.86	21	0-1
	16-QAM		0	1732.5	20175	20.01	21	0-2
	. 5 50 1111		_	1745	20300	20.24	21	0-2
				1720	20050	19.82	21	0-2
700		50 RB	25	1732.5	20175	19.94	21	0-2
	1			1745	20300	20.06	21	0-2
				1720	20050	19.89	21	0-2
			50	1732.5	20175	19.95	21	0-2
				1745	20300	19.90	21	0-2
				1720	20050	19.87	21	0-2
		100)RB	1732.5	20175	19.94	21	0-2
				1745	20300	20.04	21	0-2

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			FDD Ba	and 4 (Full	Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1717.5	20025	22.22	22.5	0
			0	1732.5	20175	22.18	22.5	0
				1747.5	20325	22.06	22.5	0
				1717.5	20025	22.11	22.5	0
		1 RB	36	1732.5	20175	22.14	22.5	0
				1747.5	20325	22.21	22.5	0
				1717.5	20025	22.09	22.5	0
			74	1732.5	20175	22.22	22.5	0
				1747.5	20325	21.94	22.5	0
				1717.5	20025	21.03	22	0-1
	QPSK		0	1732.5	20175	21.03	22	0-1
				1747.5	20325	21.16	22	0-1
			18	1717.5	20025	20.96	22	0-1
		36 RB		1732.5	20175	20.98	22	0-1
				1747.5	20325	21.04	22	0-1
			37	1717.5	20025	20.98	22	0-1
				1732.5	20175	21.09	22	0-1
				1747.5	20325	20.99	22	0-1
		75RB		1717.5	20025	20.90	22	0-1
				1732.5	20175	20.87	22	0-1
15				1747.5	20325	20.84	22	0-1
		1 RB	0	1717.5	20025	21.48	22	0-1
				1732.5	20175	21.44	22	0-1
				1747.5	20325	21.29	22	0-1
			36	1717.5	20025	21.17	22	0-1
				1732.5	20175	21.07	22	0-1
				1747.5	20325	21.42	22	0-1
				1717.5	20025	20.88	22	0-1
			74	1732.5	20175	21.40	22	0-1
	l [1747.5	20325	21.85	22	0-1
				1717.5	20025	19.89	21	0-2
	16-QAM		0	1732.5	20175	20.01	21	0-2
				1747.5	20325	20.11	21	0-2
				1717.5	20025	19.96	21	0-2
		36 RB	18	1732.5	20175	19.96	21	0-2
				1747.5	20325	19.94	21	0-2
				1717.5	20025	19.98	21	0-2
			37	1732.5	20175	20.04	21	0-2
]			1747.5	20325	20.01	21	0-2
				1717.5	20025	19.81	21	0-2
		75	RB	1732.5	20175	19.84	21	0-2
				1747.5	20325	19.92	21	0-2

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			FDD Ba	nd 4 (Full	Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed pe 3GPP(dB)
				1715	20000	22.01	22.5	0
			0	1732.5	20175	22.17	22.5	0
				1750	20350	22.21	22.5	0
				1715	20000	22.09	22.5	0
		1 RB	25	1732.5	20175	22.26	22.5	0
				1750	20350	22.15	22.5	0
				1715	20000	22.07	22.5	0
			49	1732.5	20175	22.42	22.5	0
				1750	20350	22.12	22.5	0
				1715	20000	21.18	22	0-1
	QPSK		0	1732.5	20175	21.19	22	0-1
				1750	20350	21.18	22	0-1
				1715	20000	21.04	22	0-1
		25 RB	12	1732.5	20175	21.07	22	0-1
				1750	20350	21.17	22	0-1
				1715	20000	21.00	22	0-1
			25	1732.5	20175	21.14	22	0-1
				1750	20350	21.17	22	0-1
		50RB		1715	20000	20.95	22	0-1
				1732.5	20175	20.96	22	0-1
10					20350	21.10	22	0-1
10			0	1715	20000	20.93	22	0-1
				1732.5	20175	20.88	22	0-1
				1750	20350	21.02	22	0-1
		1 RB		1715	20000	21.28	22	0-1
			25	1732.5	20175	20.64	22	0-1
				1750	20350	21.16	22	0-1
			Cal I	1715	20000	21.16	22	0-1
			49	1732.5	20175	21.42	22	0-1
				1750	20350	21.44	22	0-1
				1715	20000	20.01	21	0-2
	16-QAM		0	1732.5	20175	19.99	21	0-2
				1750	20350	20.01	21	0-2
				1715	20000	19.96	21	0-2
		25 RB	12	1732.5	20175	20.07	21	0-2
	1			1750	20350	20.06	21	0-2
				1715	20000	19.98	21	0-2
			25	1732.5	20175	20.08	21	0-2
				1750	20350	20.08	21	0-2
				1715	20000	19.92	21	0-2
		50	RB	1732.5	20175	19.88	21	0-2
				1750	20350	20.06	21	0-2

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			EDD D	n d 4 / [. 11	Deversity			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1712.5	19975	22.01	22.5	0
			0	1732.5	20175	22.15	22.5	0
				1752.5	20375	22.10	22.5	0
				1712.5	19975	22.03	22.5	0
		1 RB	12	1732.5	20175	22.15	22.5	0
				1752.5	20375	21.93	22.5	0
				1712.5	19975	22.30	22.5	0
			24	1732.5	20175	22.24	22.5	0
				1752.5	20375	22.23	22.5	0
				1712.5	19975	21.26	22	0-1
	QPSK		0	1732.5	20175	21.23	22	0-1
				1752.5	20375	21.36	22	0-1
			04/1	1712.5	19975	20.98	22	0-1
		12 RB	6	1732.5	20175	21.22	22	0-1
				1752.5	20375	21.04	22	0-1
			13	1712.5	19975	20.99	22	0-1
				1732.5	20175	21.07	22	0-1
				1752.5	20375	21.47	22	0-1
04				1712.5	19975	21.22	22	0-1
		25RB		1732.5	20175	21.11	22	0-1
5				1752.5	20375	20.86	22	0-1
				1712.5	19975	20.98	22	0-1
			0	1732.5	20175	21.07	22	0-1
		1 RB		1752.5	20375	20.88	22	0-1
			12	1712.5	19975	20.98	22	0-1
				1732.5	20175	21.30	22	0-1
				1752.5	20375	21.37	22	0-1
				1712.5	19975	21.18	22	0-1
			24	1732.5	20175	20.93	22	0-1
				1752.5	20375	21.03	22	0-1
				1712.5	19975	20.22	21	0-2
	16-QAM		0	1732.5	20175	20.17	21	0-2
				1752.5	20375	20.27	21	0-2
				1712.5	19975	20.27	21	0-2
		12 RB	6	1732.5	20175	20.18	21	0-2
				1752.5	20375	19.94	21	0-2
			40	1712.5	19975	20.22	21	0-2
			13	1732.5	20175	20.01	21	0-2
				1752.5	20375	19.82	21	0-2
			DD	1712.5	19975	20.12	21	0-2
		25	RB	1732.5	20175	20.16	21	0-2
				1752.5	20375	20.27	21	0-2

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			FDD Ba	ınd 4 (Full	Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1711.5	19965	22.03	22.5	0
			0	1732.5	20175	22.12	22.5	0
				1753.5	20385	21.82	22.5	0
				1711.5	19965	21.86	22.5	0
		1 RB	7	1732.5	20175	22.17	22.5	0
				1753.5	20385	21.93	22.5	0
				1711.5	19965	22.24	22.5	0
			14	1732.5	20175	22.27	22.5	0
				1753.5	20385	22.34	22.5	0
				1711.5	19965	21.20	22	0-1
	QPSK		0	1732.5	20175	21.27	22	0-1
				1753.5	20385	21.08	22	0-1
			04/1	1711.5	19965	21.33	22	0-1
		8 RB	4	1732.5	20175	21.23	22	0-1
				1753.5	20385	21.17	22	0-1
				1711.5	19965	21.29	22	0-1
			7	1732.5	20175	21.19	22	0-1
				1753.5	20385	21.07	22	0-1
					19965	21.22	22	0-1
		15	RB	1732.5	20175	21.20	22	0-1
3				1753.5	20385	21.56	22	0-1
				1711.5	19965	21.24	22	0-1
			0	1732.5	20175	21.05	22	0-1
		1 RB		1753.5	20385	21.19	22	0-1
			7	1711.5	19965	20.98	22	0-1
				1732.5	20175	21.08	22	0-1
				1753.5	20385	21.06	22	0-1
				1711.5	19965	21.29	22	0-1
			14	1732.5	20175	21.04	22	0-1
	1			1753.5	20385	21.59	22	0-1
				1711.5	19965	20.11	21	0-2
	16-QAM		0	1732.5	20175	20.17	21	0-2
				1753.5	20385	20.05	21	0-2
				1711.5	19965	19.84	21	0-2
		8 RB	4	1732.5	20175	20.04	21	0-2
				1753.5	20385	20.13	21	0-2
			_	1711.5	19965	19.81	21	0-2
			7	1732.5	20175	20.26	21	0-2
]			1753.5	20385	20.02	21	0-2
				1711.5	19965	20.16	21	0-2
		15	RB	1732.5	20175	20.20	21	0-2
				1753.5	20385	20.02	21	0-2

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			FDD Ba	and 4 (Full	Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1710.7	19957	22.06	22.5	0
			0	1732.5	20175	22.04	22.5	0
				1754.3	20393	21.99	22.5	0
				1710.7	19957	22.03	22.5	0
		1 RB	2	1732.5	20175	21.97	22.5	0
				1754.3	20393	22.43	22.5	0
				1710.7	19957	22.07	22.5	0
			5	1732.5	20175	22.36	22.5	0
				1754.3	20393	22.43	22.5	0
	l			1710.7	19957	20.66	22	0-1
	QPSK		0	1732.5	20175	20.89	22	0-1
				1754.3	20393	21.00	22	0-1
			04 1	1710.7	19957	20.58	22	0-1
		3 RB	2	1732.5	20175	20.42	22	0-1
				1754.3	20393	21.00	22	0-1
				1710.7	19957	20.60	22	0-1
			3	1732.5	20175	20.83	22	0-1
				1754.3	20393	20.98	22	0-1
		6RB		1710.7	19957	19.65	22	0-1
				1732.5	20175	20.00	22	0-1
1.4				1754.3	20393	19.49	22	0-1
1.4			0	1710.7	19957	20.40	22	0-1
				1732.5	20175	20.65	22	0-1
		1 RB		1754.3	20393	20.91	22	0-1
				1710.7	19957	20.51	22	0-1
				1732.5	20175	20.91	22	0-1
				1754.3	20393	20.54	22	0-1
				1710.7	19957	20.35	22	0-1
			5	1732.5	20175	20.52	22	0-1
				1754.3	20393	20.74	22	0-1
				1710.7	19957	20.52	21	0-2
	16-QAM		0	1732.5	20175	20.66	21	0-2
				1754.3	20393	21.00	21	0-2
				1710.7	19957	20.72	21	0-2
		3 RB	2	1732.5	20175	20.90	21	0-2
				1754.3	20393	20.42	21	0-2
				1710.7	19957	20.72	21	0-2
			3	1732.5	20175	20.92	21	0-2
				1754.3	20393	21.00	21	0-2
				1710.7	19957	19.71	21	0-2
		61	RB	1732.5	20175	19.68	21	0-2
				1754.3	20393	20.17	21	0-2

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		F	DD Band	4 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed pe 3GPP(dB)
				1720	20050	19.57	20	0
			0	1732.5	20175	19.68	20	0
				1745	20300	19.81	20	0
				1720	20050	19.69	20	0
		1 RB	50	1732.5	20175	19.88	20	0
				1745	20300	19.76	20	0
				1720	20050	19.78	20	0
			99	1732.5	20175	19.86	20	0
				1745	20300	19.89	20	0
				1720	20050	19.59	20	0-1
	QPSK		0	1732.5	20175	19.57	20	0-1
				1745	20300	19.68	20	0-1
			25	1720	20050	19.55	20	0-1
		50 RB		1732.5	20175	19.58	20	0-1
				1745	20300	19.54	20	0-1
				1720	20050	19.56	20	0-1
			50	1732.5	20175	19.63	20	0-1
				1745	20300	19.62	20	0-1
				1720	20050	19.57	20	0-1
		100RB		1732.5	20175	19.66	20	0-1
20				1745	20300	19.69	20	0-1
20			0	1720	20050	19.59	20	0-1
				1732.5	20175	19.60	20	0-1
				1745	20300	19.48	20	0-1
		1 RB	50	1720	20050	19.73	20	0-1
				1732.5	20175	19.41	20	0-1
				1745	20300	19.19	20	0-1
				1720	20050	19.16	20	0-1
			99	1732.5	20175	19.37	20	0-1
				1745	20300	19.72	20	0-1
				1720	20050	19.19	20	0-2
	16-QAM		0	1732.5	20175	19.20	20	0-2
				1745	20300	19.52	20	0-2
				1720	20050	19.19	20	0-2
		50 RB	25	1732.5	20175	19.27	20	0-2
				1745	20300	19.24	20	0-2
				1720	20050	19.19	20	0-2
			50	1732.5	20175	19.34	20	0-2
] .			1745	20300	19.20	20	0-2
				1720	20050	19.30	20	0-2
		100	ORB	1732.5	20175	19.26	20	0-2
				1745	20300	19.30	20	0-2

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		F	DD Band	4 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1717.5	20025	19.30	20	0
			0	1732.5	20175	19.43	20	0
				1747.5	20325	19.42	20	0
				1717.5	20025	19.47	20	0
		1 RB	36	1732.5	20175	19.46	20	0
				1747.5	20325	19.46	20	0
				1717.5	20025	19.35	20	0
			74	1732.5	20175	19.56	20	0
				1747.5	20325	19.62	20	0
				1717.5	20025	19.20	20	0-1
	QPSK		0	1732.5	20175	19.23	20	0-1
				1747.5	20325	19.33	20	0-1
				1717.5	20025	19.14	20	0-1
		36 RB	18	1732.5	20175	19.25	20	0-1
				1747.5	20325	19.31	20	0-1
			37	1717.5	20025	19.27	20	0-1
				1732.5	20175	19.38	20	0-1
				1747.5	20325	19.27	20	0-1
			•	1717.5	20025	19.05	20	0-1
		75RB		1732.5	20175	19.22	20	0-1
15				1747.5	20325	19.23	20	0-1
10		1 RB	0	1717.5	20025	18.78	20	0-1
				1732.5	20175	19.28	20	0-1
				1747.5	20325	19.28	20	0-1
			36	1717.5	20025	19.02	20	0-1
				1732.5	20175	19.40	20	0-1
				1747.5	20325	19.54	20	0-1
				1717.5	20025	19.12	20	0-1
			74	1732.5	20175	19.55	20	0-1
				1747.5	20325	19.47	20	0-1
	ĺ			1717.5	20025	19.12	20	0-2
	16-QAM		0	1732.5	20175	19.09	20	0-2
				1747.5	20325	19.17	20	0-2
				1717.5	20025	19.04	20	0-2
		36 RB	18	1732.5	20175	19.00	20	0-2
				1747.5	20325	19.04	20	0-2
				1717.5	20025	19.02	20	0-2
			37	1732.5	20175	19.17	20	0-2
				1747.5	20325	19.16	20	0-2
				1717.5	20025	18.98	20	0-2
		75	RB	1732.5	20175	19.07	20	0-2
				1747.5	20325	18.96	20	0-2

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		F	DD Band	4 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1715	20000	19.21	20	0
			0	1732.5	20175	19.45	20	0
				1750	20350	19.30	20	0
				1715	20000	19.29	20	0
		1 RB	25	1732.5	20175	19.41	20	0
				1750	20350	19.46	20	0
				1715	20000	19.34	20	0
			49	1732.5	20175	19.44	20	0
				1750	20350	19.54	20	0
				1715	20000	19.25	20	0-1
	QPSK		0	1732.5	20175	19.29	20	0-1
				1750	20350	19.36	20	0-1
			641	1715	20000	19.35	20	0-1
		25 RB	12	1732.5	20175	19.34	20	0-1
				1750	20350	19.35	20	0-1
				1715	20000	19.25	20	0-1
			25	1732.5	20175	19.46	20	0-1
				1750	20350	19.37	20	0-1
				1715	20000	19.19	20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
		50	RB	1732.5	20175	19.27	20	0-1
10				1750	20350	19.24	20	0-1
10				1715	20000	19.27	20	0-1
			0	1732.5	20175	19.21	20	0-1
				1750	20350	19.00	20	0-1
				1715	20000	19.46	20	0-1
		1 RB	25	1732.5	20175	19.22	20	0-1
				1750	20350	19.12	20	0-1
				1715	20000	19.44	20	0-1
			49	1732.5	20175	18.89	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-
				1750	20350	18.98	20	0-1
				1715	20000	19.18	20	0-2
	16-QAM		0	1732.5	20175	19.15	20	0-2
				1750	20350	19.22	20	0-2
				1715	20000	19.05	20	0-2
		25 RB	12	1732.5	20175	19.21	20	
				1750	20350	19.27	20	
				1715	20000	19.03	20	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1
			25	1732.5	20175	19.31	20	
				1750	20350	19.25	20	
				1715	20000	19.04	20	
		50	RB	1732.5	20175	18.99	20	
				1750	20350	19.10	20	0-2

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		F	DD Band	l 4 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1712.5	19975	19.13	20	0
			0	1732.5	20175	19.32	20	0
				1752.5	20375	19.43	20	0
				1712.5	19975	19.34	20	0
		1 RB	12	1732.5	20175	19.37	20	0
				1752.5	20375	19.44	20	0
				1712.5	19975	19.24	20	0
			24	1732.5	20175	19.45	20	0
				1752.5	20375	19.43	20	0
				1712.5	19975	19.39	20	0-1
	QPSK		0	1732.5	20175	19.42	20	0-1
				1752.5	20375	19.35	20	0-1
			04 1	1712.5	19975	19.43	20	0-1
		12 RB	6	1732.5	20175	19.41	20	0-1
				1752.5	20375	19.41	20	0-1
				1712.5	19975	19.38	20	0-1
			13	1732.5	20175	19.49	20	0-1
				1752.5	20375	19.42	20	0-1
				1712.5	19975	19.31	20	0-1
		25	RB	1732.5	20175	19.30	20	0-1
5				1752.5	20375	19.34	20	0-1
3			25RB 0	1712.5	19975	18.99	20	0-1
				1732.5	20175	19.39	20	0-1
				1752.5	20375	19.56	20	0-1
				1712.5	19975	18.85	20	0-1
		1 RB	12	1732.5	20175	19.41	20	0-1
				1752.5	20375	19.46	20	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1
				1712.5	19975	19.01	20	0-1
			24	1732.5	20175	19.23	20	0-1
				1752.5	20375	19.16	20	0-1
				1712.5	19975	19.19	20	0-2
	16-QAM		0	1732.5	20175	19.38	20	0-2
				1752.5	20375	19.23	20	0-2
				1712.5	19975	19.16	20	0-2
		12 RB	6	1732.5	20175	19.29	20	0-2
				1752.5	20375	19.40	20	0-2
				1712.5	19975	19.23	20	0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
			13	1732.5	20175	19.32	20	0-2
				1752.5	20375	19.31	20	0-2
				1712.5	19975	19.20	20	0-2
		25	RB	1732.5	20175	19.05	20	0-2
				1752.5	20375	19.26	20	0-2

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		F	DD Band	l 4 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1711.5	19965	19.12	20	0
			0	1732.5	20175	19.08	20	0
				1753.5	20385	19.14	20	0
				1711.5	19965	19.26	20	0
		1 RB	7	1732.5	20175	19.16	20	0
				1753.5	20385	19.09	20	0
				1711.5	19965	19.17	20	0
			14	1732.5	20175	19.22	20	0
				1753.5	20385	19.16	20	0
				1711.5	19965	19.10	20	0-1
	QPSK		0	1732.5	20175	19.19	20	0-1
				1753.5	20385	19.20	20	0-1
			04 1	1711.5	19965	19.17	20	0-1
		8 RB	4	1732.5	20175	19.20	20	0-1
				1753.5	20385	19.26	20	0-1
				1711.5	19965	19.17	20	0-1
			7	1732.5	20175	19.23	20	0-1
				1753.5	20385	19.19	20	0-1
				1711.5	19965	19.09	20	0-1
		15	RB	1732.5	20175	19.19	20	0-1
3				1753.5	20385	19.21	20	0-1
				1711.5	19965	18.78	20	0-1
			0	1732.5	20175	19.29	20	0-1
				1753.5	20385	18.69	20	0-1
				1711.5	19965	18.96	20	0-1
		1 RB	7	1732.5	20175	18.96	20	
				1753.5	20385	19.31	20	0-1
				1711.5	19965	19.17	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			14	1732.5	20175	18.70	20	
				1753.5	20385	19.20	20	
	16 0 4 14		0	1711.5	19965	18.66	20	
	16-QAM		0	1732.5	20175	19.02	20	
				1753.5	20385	18.78	20	
		8 RB	4	1711.5	19965	19.03	20	
		O ND	4	1732.5 1753.5	20175 20385	18.96 18.87	20	
					19965	18.87	20	
			7	1711.5 1732.5			20	
			'	1732.5 1753.5	20175 20385	18.95 18.95	20	
				1753.5	19965	19.08	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1
		15	RB	1711.5	20175	19.06	20	
		13		1753.5	20175	18.98	20	i e

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		-	DD Band	4 (Reduc	ed Power	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
			0	1710.7 1732.5	19957 20175	19.02 19.21	20 20	0
			Ü	1754.3	20393	19.13	20	0
				1734.3	19957	19.13	20	0
		1 RB	2	1732.5	20175	19.30	20	0
			_	1754.3	20393	19.31	20	0
				1710.7	19957	19.15	20	0
			5	1732.5	20175	19.22	20	0
				1754.3	20393	19.31	20	0
				1710.7	19957	19.03	20	0-1
	QPSK		0	1732.5	20175	19.31	20	0-1
				1754.3	20393	19.26	20	0-1
				1710.7	19957	18.98	20	0-1
		3 RB	2	1732.5	20175	19.18	20	0-1
				1754.3	20393	19.33	20	0-1
				1710.7	19957	19.01	20	0-1
			3	1732.5	20175	19.21	20	0-1
		V		1754.3	20393	19.15	20	0-1
				1710.7	19957	19.00	20	0-1
		6F	RB	1732.5	20175	19.31	20	0-1
1.4				1754.3	20393	19.27	20	0-1
1.4				1710.7	19957	19.20	20	0-1
			0	1732.5	20175	18.94	20	0-1
				1754.3	20393	19.13	20	0-1
				1710.7	19957	18.48	20	0-1
		1 RB	2	1732.5	20175	19.29	20	0-1
				1754.3	20393	18.97	20	0-1
				1710.7	19957	19.15	20	0-1
			5	1732.5	20175	18.98	20	0-1
				1754.3	20393	19.20	20	0-1
				1710.7	19957	19.01	20	0-2
	16-QAM		0	1732.5	20175	19.05	20	0-2
				1754.3	20393	19.12	20	0-2
				1710.7	19957	18.99	20	0-2
		3 RB	2	1732.5	20175	18.97	20	0-2
100				1754.3	20393	19.14	20	0-2
	1			1710.7	19957	18.89	20	0-2
		3	1732.5	20175	19.18	20	0-2	
				1754.3	20393	19.13	20	0-2
				1710.7	19957	18.83	20	0-2
		6F	RB	1732.5	20175	19.15	20	0-2
				1754.3	20393	18.97	20	0-2

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			EDD Ba	nd 5 (Full	Power)			
			רטט מא	ina 5 (Full	Power)		Taract	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
		V		829	20450	21.76	22.5	0
			0	836.5	20525	21.86	22.5	0
				844	20600	22.04	22.5	0
				829	20450	21.87	22.5	0
		1 RB	25	836.5	20525	21.83	22.5	0
				844	20600	21.95	22.5	0
				829	20450	21.84	22.5	0
			49	836.5	20525	21.77	22.5	0
				844	20600	22.24	22.5	0
				829	20450	20.74	21	0-1
	QPSK		0	836.5	20525	20.76	21	0-1
				844	20600	20.70	21	0-1
				829	20450	20.80	21	0-1
		25 RB	12	836.5	20525	20.80	21	0-1
				844	20600	20.75	21	0-1
				829	20450	20.89	21	0-1
			25	836.5	20525	20.77	21	0-1
0.4				844	20600	20.71	21	0-1
				829	20450	20.58	21	0-1
		50	RB	836.5	20525	20.68	21	0-1
10			•	844	20600	20.62	21	0-1
				829	20450	20.77	21	0-1
			0	836.5	20525	20.75	21	0-1
				844	20600	20.79	21	0-1
				829	20450	20.51	21	0-1
		1 RB	25	836.5	20525	20.82	21	0-1
				844	20600	21.08	21	0-1
			64/1	829	20450	21.04	21	0-1
			49	836.5	20525	20.72	21	0-1
				844	20600	21.78	21	0-1
				829	20450	19.68	20	0-2
	16-QAM		0	836.5	20525	19.89	20	0-2
				844	20600	19.78	20	0-2
		05.55	4.0	829	20450	19.76	20	0-2
		25 RB	12	836.5	20525	19.79	20	0-2
				844	20600	19.77	20	0-2
			0.5	829	20450	19.91	20	0-2
			25	836.5	20525	19.71	20	0-2
				844	20600	19.75	20	0-2
				829	20450	19.56	20	0-2
		50	RB	836.5	20525	19.63	20	0-2
				844	20600	19.59	20	0-2

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				=				
			FDD Ba	nd 5 (Full	Power)			1
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				826.5	20425	21.62	22.5	0
			0	836.5	20525	21.71	22.5	0
				846.5	20625	21.69	22.5	0
				826.5	20425	21.67	22.5	0
		1 RB	12	836.5	20525	21.75	22.5	0
				846.5	20625	21.71	22.5	0
				826.5	20425	21.65	22.5	0
			24	836.5	20525	21.83	22.5	0
				846.5	20625	21.71	22.5	0
				826.5	20425	20.80	21	0-1
	QPSK		0	836.5	20525	20.86	21	0-1
			04 1	846.5	20625	20.77	21	0-1
				826.5	20425	20.79	21	0-1
		12 RB	6	836.5	20525	20.87	21	0-1
				846.5	20625	20.81	21	0-1
				826.5	20425	20.77	21	0-1
			13	836.5	20525	20.80	21	0-1
				846.5	20625	20.82	21	0-1
				826.5	20425	20.67	21	0-1
		25	RB	836.5	20525	20.69	21	0-1
5			7	846.5	20625	20.70	21	0-1
				826.5	20425	20.90	21	0-1
			0	836.5	20525	20.73	21	0-1
				846.5	20625	20.62	21	0-1
		4 DD	40	826.5	20425	20.63	21	0-1
		1 RB	12	836.5	20525	20.94	21	0-1
				846.5	20625	20.63	21	0-1
			24	826.5	20425	21.00	21	0-1
			24	836.5	20525	20.57	21	0-1
				846.5	20625	20.41	21	0-1
	16-QAM		0	826.5	20425	19.75	20	0-2
	10-QAIVI		U	836.5	20525	19.83	20	0-2
(CA)				846.5 826.5	20625	19.74	20 20	0-2 0-2
		12 RB	6	826.5 836.5	20425	19.84	20	0-2
		12 110		836.5 846.5	20525 20625	19.88 19.87	20	0-2
				826.5	20625	19.67	20	0-2
			13	836.5	20525	19.71	20	0-2
				846.5	20625	19.78	20	0-2
				826.5	20425	19.61	20	0-2
	25	RB	836.5	20525	19.68	20	0-2	
				846.5	20625	19.68	20	0-2

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			FDD Ba	ind 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)
				825.5	20415	21.69	22.5	0
			0	836.5	20525	21.62	22.5	0
				847.5	20635	21.52	22.5	0
				825.5	20415	21.66	22.5	0
		1 RB	7	836.5	20525	21.68	22.5	0
				847.5	20635	21.55	22.5	0
				825.5	20415	21.67	22.5	0
			14	836.5	20525	21.80	22.5	0
				847.5	20635	21.74	22.5	0
				825.5	20415	20.71	21	0-1
	QPSK		0	836.5	20525	20.77	21	0-1
				847.5	20635	20.75	21	0-1
				825.5	20415	20.72	21	0-1
		8 RB	4	836.5	20525	20.82	21	0-1
				847.5	20635	20.79	21	0-1
				825.5	20415	20.78	21	0-1
			7	836.5	20525	20.76	21	0-1
0.4				847.5	20635	20.74	21	0-1
				825.5	20415	20.65	21	0-1
FO A		15	RB	836.5	20525	20.78	21	0-1
3			1	847.5	20635	20.70	21	0-1
				825.5	20415	20.88	21	0-1
			0	836.5	20525	20.54	21	0-1
				847.5	20635	20.85	21	0-1
				825.5	20415	20.39	21	0-1
		1 RB	7	836.5	20525	20.99	21	0-1
				847.5	20635	20.87	21	0-1
				825.5	20415	20.56	21	0-1
			14	836.5	20525	20.75	21	0-1
				847.5	20635	20.68	21	0-1
	40.0414		0	825.5	20415	19.65	20	0-2
	16-QAM		0	836.5	20525	19.74	20	0-2
				847.5	20635	19.71	20	0-2
		8 RB	4	825.5	20415	19.74	20	0-2
		0 KD	4	836.5	20525	19.78	20	0-2
				847.5	20635	19.75	20	0-2
			7	825.5	20415	19.76	20	0-2
			'	836.5	20525	19.85	20	0-2
				847.5	20635	19.71	20	0-2
		15	RB	825.5 836.5	20415	19.72	20	0-2
		15	ND	836.5 847.5	20525	19.76	20	0-2
				047.5	20635	19.84	20	0-2

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			FDD Ba	and 5 (Full	Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
			0	824.7 836.5	20407 20525	21.61	22.5 22.5	0
		1 RB	2	848.3 824.7 836.5	20643 20407 20525	21.69 21.69 21.75	22.5 22.5 22.5	0 0
			5	848.3 824.7 836.5	20643 20407 20525	21.78 21.79 21.74	22.5 22.5 22.5	0 0
	QPSK			848.3 824.7	20643 20407	21.70 20.72	22.5 21	0 0-1
QPSK	QPSK		0	836.5 848.3 824.7	20525 20643 20407	20.68 20.76 20.69	21 21 21	0-1 0-1 0-1
		3 RB	2	836.5 848.3	20525 20643	20.72	21 21	0-1 0-1 0-1
		3	824.7 836.5 848.3	20407 20525 20643	20.72 20.67 20.67	21 21 21	0-1 0-1 0-1	
	À	6F	RB	824.7 836.5	20407 20525	19.75 19.74	21 21	0-1 0-1 0-1
1.4			0	848.3 824.7 836.5	20643 20407 20525	19.86 20.41 20.68	21 21 21	0-1 0-1 0-1
				848.3 824.7	20643 20407	20.90 20.98	21	0-1 0-1
		1 RB	2	836.5 848.3 824.7	20525 20643 20407	20.65 20.65 20.94	21 21 21	0-1 0-1 0-1
			5	836.5 848.3	20525 20643	20.43	21	0-1 0-1 0-1
	16-QAM		0	824.7 836.5 848.3	20407 20525 20643	19.81 19.73 20.09	20 20 20	0-2 0-2 0-2
	3	3 RB	2	824.7 836.5	20407 20525	19.75 19.71	20 20	0-2 0-2
			3	848.3 824.7 836.5	20643 20407 20525	20.00 19.62 19.76	20 20 20	0-2 0-2 0-2
		0.5		848.3 824.7	20643 20407	19.63 18.82	20 20	0-2 0-2
		61	RB	836.5 848.3	20525 20643	18.94 18.92	20 20	0-2 0-2

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		F	DD Band	5 (Reduc	ed Power	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				829	20450	18.24	20	0
			0	836.5	20525	18.33	20	0
			· ·	844	20600	18.18	20	0
				829	20450	18.39	20	0
		1 RB	25	836.5	20525	18.29	20	0
				844	20600	18.19	20	0
				829	20450	18.36	20	0
			49	836.5	20525	18.27	20	0
				844	20600	18.50	20	0
				829	20450	18.20	20	0-1
	QPSK		0	836.5	20525	18.27	20	0-1
	Q. O. (844	20600	18.21	20	0-1
				829	20450	18.42	20	0-1
		25 RB	12	836.5	20525	18.39	20	0-1
		20112		844	20600	18.28	20	0-1
				829	20450	18.49	20	0-1
			25	836.5	20525	18.36	20	0-1
				844	20600	18.29	20	0-1
				829	20450	18.29		0-1
	_	50	RB	836.5	20525	18.21		0-1
				844	20600	18.27		0-1
10				829	20450	18.36		0-1
			0	836.5	20525	18.47	20 20 20	0-1
			· ·	844	20600	18.44	20	0-1
				829	20450	18.47	20	0-1
		1 RB	25	836.5	20525	18.20	20	0-1
				844	20600	17.93	20	0-1
				829	20450	18.12	20	0-1
			49	836.5	20525	18.21	20	0-1
				844	20600	18.09	20	0-1
			70 >	829	20450	17.91	20	0-2
	16-QAM		0	836.5	20525	18.05	20	0-2
				844	20600	18.10	20	0-2
				829	20450	18.13	20	0-2
	25 RB	12	836.5	20525	18.10	20	0-2	
			844	20600	17.92	20	0-2	
100				829	20450	18.16	20	0-2
			25	836.5	20525	18.01	20	0-2
				844	20600	17.87	20	0-2
				829	20450	18.00	20	0-2
		50	RB	836.5	20525	17.96	20	0-2
	5			844	20600	17.96	20	0-2

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		F	DD Band	5 (Reduc	ed Powe	r)		
			DD Band	J (Neduc	ea i owe		Target	
				Fraguanay		Conducted	Power +	MPR
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency	Channel	power	Max.	Allowed per
				(MHz)		(dBm)	Tolerance	3GPP(dB)
							(dBm)	
				826.5	20425	18.02	20	0
			0	836.5	20525	18.12	20	0
				846.5	20625	18.18	20	0
				826.5	20425	18.15	20	0
		1 RB	12	836.5	20525	18.23	20	0
				846.5	20625	18.15	20	0
				826.5	20425	18.22	20	0
			24	836.5	20525	18.21	20	0
				846.5	20625	18.07	20	0
				826.5	20425	18.07	20	0-1
	QPSK		0	836.5	20525	18.13	20	0-1
				846.5	20625	18.07	20	0-1
				826.5	20425	18.18	20	0-1
		12 RB	6	836.5	20525	18.22	20	0-1
				846.5	20625	18.16	20	0-1
				826.5	20425	18.20	20	0-1
			13	836.5	20525	18.24	20	0-1
				846.5	20625	18.16	20	0-1
				826.5	20425	18.05	20	0-1
TO A		25	RB	836.5	20525	18.13	20	0-1
5				846.5	20625	18.13	20	0-1
3				826.5	20425	17.73	20	0-1
			0	836.5	20525	17.93	20	0-1
				846.5	20625	18.08	20	0-1
				826.5	20425	18.24	20	0-1
		1 RB	12	836.5	20525	17.87	20	0-1
				846.5	20625	17.84	20	0-1
			64 1	826.5	20425	18.43	20	0-1
			24	836.5	20525	18.35	20	0-1
				846.5	20625	17.98	20	0-1
				826.5	20425	18.16	20	0-2
	16-QAM		0	836.5	20525	18.23	20	0-2
				846.5	20625	18.13	20	0-2
(64				826.5	20425	18.19	20	0-2
		12 RB	6	836.5	20525	18.28	20	0-2
				846.5	20625	18.10	20	0-2
			4.5	826.5	20425	18.26	20	0-2
			13	836.5	20525	18.24	20	0-2
				846.5	20625	18.05	20	0-2
		<u></u>	D D	826.5	20425	18.05	20	0-2
		25	RB	836.5	20525	18.09	20	0-2
				846.5	20625	18.10	20	0-2

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			DD Band	5 (Reduc	ed Power	۲)		
			DD Dailu	J (INEGUC	cu i owei)	Target	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
							(dBm)	
				825.5	20415	18.02	20	0
			0	836.5	20525	18.13	20	0
				847.5	20635	18.04	20	0
				825.5	20415	18.14	20	0
		1 RB	7	836.5	20525	18.23	20	0
				847.5	20635	18.04	20	0
				825.5	20415	18.13	20	0
			14	836.5	20525	18.22	20	0
				847.5	20635	18.16	20	0
				825.5	20415	18.16	20	0-1
	QPSK		0	836.5	20525	18.17	20	0-1
				847.5	20635	18.23	20	0-1
			64 1	825.5	20415	18.06	20	0-1
		8 RB	4	836.5	20525	18.22	20	0-1
				847.5	20635	18.11	20	0-1
				825.5	20415	18.09	20	0-1
			7	836.5	20525	18.17	20	0-1
				847.5	20635	18.16	20	0-1
				825.5	20415	18.09	20	0-1
		15	RB	836.5	20525	18.17	20	0-1
3				847.5	20635	18.20	20	0-1
3				825.5	20415	17.88	20	0-1
			0	836.5	20525	18.10	20	0-1
				847.5	20635	18.01	20	0-1
				825.5	20415	18.03	20	0-1
		1 RB	7	836.5	20525	18.05	20	0-1
				847.5	20635	18.30	20	0-1
				825.5	20415	18.45	20	0-1
			14	836.5	20525	18.48	20	0-1
				847.5	20635	17.80	20	0-1
				825.5	20415	18.05	20	0-2
	16-QAM		0	836.5	20525	18.16	20	0-2
				847.5	20635	18.03	20	0-2
				825.5	20415	17.93	20	0-2
04		8 RB	4	836.5	20525	18.23	20	0-2
				847.5	20635	18.06	20	0-2
				825.5	20415	17.97	20	0-2
			7	836.5	20525	18.13	20	0-2
				847.5	20635	18.14	20	0-2
				825.5	20415	18.02	20	0-2
		15	RB	836.5	20525	18.17	20	0-2
				847.5	20635	18.19	20	0-2

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		F	DD Band	5 (Reduc	ed Powe	r)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
			0	824.7 836.5	20407 20525	18.01 18.12	20 20	0
				848.3 824.7	20643 20407	18.10 18.16	20 20	0
		1 RB	2	836.5 848.3	20525 20643	18.18 18.15	20	0
			5	824.7 836.5	20407 20525	18.17 18.28	20 20	0
	QPSK		0	848.3 824.7	20643 20407	18.11 18.13	20	0 0-1
	QFSN			836.5 848.3 824.7	20525 20643 20407	18.19 18.21 18.12	20 20 20	0-1 0-1 0-1
		3 RB	2	836.5 848.3	20525 20643	18.18 18.18	20	0-1 0-1 0-1
			3	824.7 836.5	20407 20525	18.09 18.25	20 20	0-1 0-1
				848.3 824.7	20643	18.18 18.13	20	0-1 0-1
1.4		bF	RB	836.5 848.3	20525	18.23 18.18	20	0-1
			0	824.7 836.5 848.3	20407 20525 20643	18.39 17.94 18.42	20 20 20	0-1 0-1 0-1
		1 RB	2	824.7 836.5	20407 20525	18.24 18.42	20	0-1 0-1 0-1
				848.3 824.7	20643 20407	18.30 17.96	20	0-1 0-1
			5	836.5 848.3	20525 20643	18.36 17.90	20 20	0-1 0-1
	16-QAM		0	824.7 836.5 848.3	20407 20525 20643	18.18 18.29 18.23	20 20 20	0-2 0-2 0-2
		3 RB	2	824.7 836.5	20407 20525	18.21 18.26	20 20	0-2 0-2
			3	848.3 824.7 836.5	20643 20407 20525	18.18 18.16 18.23	20 20 20	0-2 0-2 0-2
				848.3 824.7	20643 20407	18.03 18.03	20	0-2 0-2
		6F	RB	836.5 848.3	20525 20643	18.22 18.17	20 20	0-2 0-2

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			FDD Ba	nd 13 (Ful	l Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	782	23230	21.65	22	0
		1 RB	25	782	23230	22.00	22	0
			49	782	23230	21.85	22	0
	QPSK		0	782	23230	20.89	21	0-1
		25 RB	12	782	23230	20.95	21	0-1
			25	782	23230	20.86	21	er + MPR Allowed pe ance 3GPP(dB) 2 0 0 2 0 0 1 0-1 1 0-1 1 0-1 1 0-1 1 0-1 1 1 0-1 1 1 0-1 1 1 0-1 1 0-1 1 0-1 1 0-1 0 0-2 0 0-2 0 0-2 0 0-2
10		50RB		782	23230	20.74	21	0-1
10			0	782	23230	20.57	21	0-1
		1 RB	25	782	23230	20.93	21	0-1
			49	782	23230	20.82	21	0-1
	16-QAM		0	782	23230	19.81	21 21 21 21 21 21 21 20	0-2
		25 RB	12	782	23230	19.82	20	0-2
			25	782	23230	19.78	20	0-2
		50	50RB		23230	19.79	20	0-2

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			FDD Bai	nd 13 (Ful	Il Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	779.5 782 784.5	23205 23230 23255	21.76 21.79	22 22 22	0 0
		1 RB	12	779.5 782	23205 23230	21.59 21.69 21.86	22 22	0
			24	784.5 779.5 782	23255 23205 23230	21.67 21.87 21.78	22 22 22	0 0
QPSK	OPSK		0	784.5 779.5 782	23255 23205 23230	21.74 20.77 20.83	22 21 21	0 0-1 0-1
			784.5 779.5	23255 23205	20.85 20.70	21 21	0-1 0-1 0-1	
		12 RB	6	782 784.5 779.5	23230 23255 23205	20.95 20.87 20.84	21 21 21	0-1 0-1 0-1
			13	782 784.5	23230 23255	20.86 20.78	21	0-1 0-1
		25	RB	779.5 782 784.5	23205 23230 23255	20.81 20.86 20.90	21 21 21	0-1 0-1 0-1
5			0	779.5 782	23205 23230	20.89	21	0-1 0-1
		1 RB	12	784.5 779.5 782	23255 23205 23230	20.98 20.94 20.93	21 21 21	0-1 0-1 0-1
				784.5 779.5	23255 23205	20.54 20.87	21 21	0-1 0-1
			24	782 784.5 779.5	23230 23255 23205	20.72 20.97 19.77	21 21 20	0-1 0-1 0-2
	16-QAM		0	782 784.5	23230 23255	19.89 19.93	20 20	0-2 0-2
		12 RB	6	779.5 782 784.5	23205 23230 23255	19.72 19.96 19.88	20 20 20	0-2 0-2 0-2
			13	779.5 782	23205 23230	19.91 19.98	20 20	0-2 0-2
		25	RB	784.5 779.5 782	23255 23205 23230	19.76 19.63 19.72	20 20 20	0-2 0-2 0-2
				784.5	23255	19.75	20	0-2

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		F	DD Band	13 (Redu	ced Powe	er)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	782	23230	18.01	20	0
		1 RB	25	782	23230	18.33	20	0
			49	782	23230	18.09	20	0
	QPSK		0	782	23230	18.01	20	0-1
		25 RB	12	782	23230	18.17	20	0-1
			25	782	23230	18.15	20	0-1
10		50RB		782	23230	18.02	20	0-1
10			0	782	23230	18.14	20	0-1
		1 RB	25	782	23230	18.24	20	0-1
			49	782	23230	18.02	20	0-1
	16-QAM		0	782	23230	18.05	20	Allowed per 3GPP(dB) 0 0 0-1 0-1 0-1 0-1 0-1
		25 RB	12	782	23230	18.11	20	0-2
			25	782	23230	18.08	20	0-2
		50	50RB		23230	18.09	20	0-2

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	FDD Band 13 (Reduced Power)											
		F	שט Band	13 (Redu	cea Powe) 	Torret					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				779.5	23205	17.85	20	0				
			0					0				
								0				
							20	0				
		1 RB	12	782			20	0				
				784.5		17.90	20	0				
				779.5	23205	18.21	20	0				
			24	782	23230	18.11	20	0				
				784.5	23255	18.04	20	0				
				779.5	23205	18.01	20	0-1				
	QPSK		0	782	23230	18.12	20	0-1				
				784.5	23255	18.26	20	0-1				
				779.5	23205	17.83	20	0-1				
		12 RB	6	782	23230	18.16	20	0-1				
				784.5	23255	18.23	20	0-1				
				779.5	23205	18.13	20	0-1				
			13	782	23230	18.20	20	0-1				
Q4				784.5	23255	17.96	20	0-1				
				779.5	23205	18.04	20	0-1				
		25	RB	782	23230	18.09	20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1				
5				784.5	23255	18.17	20	0-1				
3				779.5	23205	17.94	20	0-1				
			0	782	23230	17.78	20	0-1				
				784.5	23255	17.74	20	0-1				
				779.5	23205	17.87	20	0-1				
		1 RB	12	782	23230	18.27	20	0-1				
				784.5	23255	18.06	20	0-1				
			9	784.5 23255 18.10 20 779.5 23205 18.12 20 782 23230 18.13 20 784.5 23255 17.90 20 779.5 23205 18.21 20 24 782 23230 18.11 20 784.5 23255 18.04 20 779.5 23205 18.01 20 784.5 23255 18.01 20 784.5 23255 18.01 20 784.5 23255 18.26 20 779.5 23205 17.83 20 6 782 23230 18.16 20 784.5 23255 18.23 20 779.5 23205 18.13 20 13 782 23230 18.20 20 784.5 23255 17.96 20 779.5 23205 18.04 20 784.5 23255	20	0-1						
			24	782	23230	17.90	20	0-1				
				784.5	23255	17.83	20	0-1				
								0-2				
	16-QAM		0		23230	18.03	20	0-2				
				784.5		17.93	20	0-2				
				779.5	23205	17.95	20	0-2				
		12 RB	6					0-2				
								0-2				
								0-2				
			13					0-2				
								0-2				
								0-2				
		25	RB	782		17.76	20	0-2				
			AL	784.5	23255	17.89	20	0-2				

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FDD Band 17 (Full Power)										
			בטט סמו	ilu i7 (Ful	i rowei)		Target			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)		
		V		709	23780	21.70	22.5	0		
			0	710	23790	21.89	22.5	0		
				711	23800	21.71	22.5	0		
10 A				709	23780	22.09	22.5	0		
		1 RB	25	710	23790	21.95	22.5	0		
				711	23800	21.96	22.5	0		
				709	23780	21.94	22.5	0		
			49	710	23790	21.81	22.5	0		
				711	23800	21.62	22.5	0		
				709	23780	20.97	21.5	0-1		
	QPSK		0	710	23790	20.92	21.5	0-1		
			04 1	711	23800	20.95	21.5			
				709	23780					
	25 RB	12	710	23790						
				711	23800		power (dBm) Max. Tolerance (dBm) Allowed per 3GPP(dB) 21.70 22.5 0 21.89 22.5 0 21.71 22.5 0 22.09 22.5 0 21.95 22.5 0 21.96 22.5 0 21.94 22.5 0 21.94 22.5 0 21.96 22.5 0 21.97 21.5 0 21.81 22.5 0 21.96 22.5 0 21.97 21.5 0 21.81 22.5 0 21.96 22.5 0 21.97 21.5 0 21.62 22.5 0 20.97 21.5 0 20.97 21.5 0 20.99 21.5 0 20.90 21.5 0 20.90 21.5 0 20.78 21.5 0			
			0.5	709	23780					
			25	710	23790					
			<u> </u>	711	23800					
PO L			DD.	709	23780					
	A CONTRACTOR OF THE CONTRACTOR	50	RB	710	23790					
10				711	23800					
			0	709	23780					
			U	710	23790					
				711	23800					
		1 RB	25	709	23780					
		TIND	25	710 711	23790					
				709	23800 23780					
			49	710	23790					
				711	23800					
				709	23780					
	16-QAM		0	710	23790					
				711	23800					
				709	23780					
100		25 RB	12	710	23790					
				711	23800					
			709	23780						
		25	710	23790						
			711	23800						
				709	23780					
		50	RB	710	23790					
	501	AL.	711	23800	19.76	20.5	0-2			

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FDD Band 17 (Full Power)											
			FDD Bai	nd 1/ (Ful	l Power)		- ·	1			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				706.5	23755	21.73	22.5	0			
			0	710	23790	22.04	22.5	0			
				713.5	23825	21.95	22.5	0			
				706.5	23755	21.74	22.5	0			
		1 RB	12	710	23790	21.74	22.5	0			
				713.5	23825	21.86	22.5	0			
				706.5	23755	22.05	22.5	0			
			24	710	23790	22.02	22.5	0			
				713.5	23825	21.61	22.5	0			
				706.5	23755	20.84	21.5	0-1			
	QPSK		0	710	23790	21.11	21.5	0-1			
				713.5	23825	21.02	21.5	0-1			
				706.5	23755	21.06	21.5	0-1			
		12 RB	6	710	23790	21.07	21.5	0-1			
				713.5	23825	20.85	21.5	0-1			
				706.5	23755	21.10	21.5	0-1			
			13	710	23790	20.86	21.5	0-1			
0.4				713.5	23825	20.76	21.5	0-1			
				706.5	23755	20.91	21.5	0-1 0-1 0-1 0-1 0-1			
		25	RB	710	23790	21.05	21.5	0-1			
5				713.5	23825	20.63	21.5	0-1			
5				706.5	23755	20.89	21.5	0-1			
			0	710	23790	20.98	20.63 21.5 (20.89 21.5 (0-1			
				713.5	23825	20.54	21.5	0-1			
				706.5	23755	20.85	21.5	0-1			
		1 RB	12	710	23790	21.16	21.5	0-1			
				713.5	23825	790 21.74 22.5 0 825 21.86 22.5 0 755 22.05 22.5 0 790 22.02 22.5 0 825 21.61 22.5 0 755 20.84 21.5 0 790 21.11 21.5 0 825 21.02 21.5 0 755 21.06 21.5 0 790 21.07 21.5 0 790 21.07 21.5 0 790 21.07 21.5 0 790 21.07 21.5 0 790 20.86 21.5 0 755 21.10 21.5 0 755 20.91 21.5 0 755 20.91 21.5 0 755 20.91 21.5 0 755 20.89 21.5 0 755 20.89 21.	0-1				
			e 4 1	706.5	23755	20.92	21.5	0-1			
			24	710	23790	20.54	21.5	0-1			
				713.5	23825	20.21	21.5	0-1			
				706.5	23755	19.88	20.5	0-2			
	16-QAM		0	710	23790	20.07	20.5	0-2			
				713.5	23825	19.87	20.5	0-2			
				706.5	23755	19.92	20.5	0-2			
		12 RB	6	710	23790	20.07	20.5	0-2			
				713.5	23825	19.80	20.5	0-2			
				706.5	23755	20.05	20.5	0-2			
			13	710	23790	20.11	20.5	0-2			
				713.5	23825	19.75	20.5	0-2			
				706.5	23755	19.95	20.5	0-2			
		25	RB	710	23790	19.88	20.5	0-2			
			713.5	23825	19.69	20.5	0-2				

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		F	DD Band	17 (Redu	red Powe	<u>2</u> r)		
		'	DD Danu	ii (iteaa	CGG T OVVE))	Target	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				709	23780	18.00		0
			0	710	23790			
				711	23800			
PO				709	23780			
		1 RB	25	710	23790			
				711				
				709				
			49	710				
				711		(dBm) 18.00 20 18.16 20 18.12 20 18.53 20 18.45 20 18.38 20 18.28 20 18.26 20 18.11 20 18.30 20 18.24 20 18.25 20 18.37 20 18.38 20 18.38 20 18.38 20 18.35 20 18.20 20 18.18 20 18.20 20 18.21 20 18.36 20 17.94 20 18.40 20 18.40 20 18.25 20 18.21 20 18.25 20		
				709	23800 18.38 20 23780 18.28 20 23790 18.26 20 23800 18.11 20 23780 18.30 20 23790 18.20 20 23800 18.24 20 23790 18.37 20 23790 18.37 20 23800 18.38 20 23780 18.36 20 23790 18.35 20 23800 18.20 20 23780 18.18 20 23790 18.20 20 23800 18.20 20 23800 18.25 20 23780 17.93 20			
	QPSK		0	710				
	Q. O.			711				
			12	709				
		25 RB		710				
		20110	12	711				
				709				
			25	709				
			23	710				
				709				
TO A		50	50RB					
		50	KD	710				
10			1	711				
				709				
			0	710				
				711	23800			
		1 RB	25	709	23780			ver + ax. MPR Allowed per 3GPP(dB) ax. Allowed per 3GPP(dB) 3m) 3GPP(dB) 3m)
		I KD	25	710	23790			
				711	23800			
			40	709	23780			
			49	710	23790			
				711	23800	17.80	20	
	40.0414		0	709	23780	18.20	20	
	16-QAM		0	710	23790	18.12	20	
				711	23800	18.19	20	
700		OF DD	10	709	23780	18.17	20	
		25 RB	12	710	23790	18.07	20	
			50RB 0 25 49 0 12	711	23800	18.29	20	
			0.5	709	23780	18.29	20	
			25	710	23790	18.10	20	
				711	23800	18.13	20	
				709	23780	18.02	20	
		50	RB	710	23790	18.01	20	
				711	23800	18.13	20	0-2

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		F	DD Band	17 (Reduc	ced Powe	er)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				706.5	23755	17.88	20	0
			0	710	23790	18.21	20	0
				713.5	23825	18.14	20	0
				706.5	23755	18.02	20	0
		1 RB	12	710	23790	18.23	20	0
				713.5	23825	18.03	20	0
				706.5	23755	18.40	20	0
			24	710	23790	18.00	20	0
				713.5	23825	17.68	20	0
	1			706.5	23755	18.01	20	0-1
	QPSK		0	710	23790	18.20	20	0-1
				713.5	23825	18.21	20	0-1
		12 RB		706.5	23755	18.04	20	0-1
			6	710	23790	18.23	20	0-1
				713.5	23825	17.95	20	0-1
				706.5	23755	18.23	20	0-1
			13	710	23790	18.19	20	0-1
				713.5	23825	17.93	20	0-1
04				706.5 23755 18.03 20				
		25	RB	710	10 23790 18.13 20			
				713.5	23825	18.02	20	0-1
5				706.5	23755	17.95	20	0-1
			0	710	23790	17.95	20	0-1
				713.5	23825	17.99	20	0-1
				706.5	23755	17.80	20	0-1
		1 RB	12	710	23790	18.34	20	0-1
				713.5	23825	18.15	20	0-1
				706.5	23755	17.84	20	0-1
			24	710	23790	17.89	20	0-1
				713.5	23825	17.43	20	0-1
	l			706.5	23755	17.66	20	0-2
	16-QAM		0	710	23790	18.16	20	0-2
				713.5	23825	18.15	20	0-2
				706.5	23755	17.97	20	0-2
		12 RB	6	710	23790	18.21	20	0-2
				713.5	23825	17.93	20	0-2
	1			706.5	23755	18.20	20	0-2
			13	710	23790	18.13	20	0-2
				713.5	23825	17.85	20	0-2
				706.5	23755	17.96	20	0-2
		25	RB	710	23790	17.84	20	0-2
				713.5	23825	17.96	20	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	MPR Allowed per 3GPP(dB)		
				1860	26140	22.20	(dBm)	0		
			n	1882.5	26365	22.12	23	0		
				1905	26590	22.12	23	0		
				1860	26140	22.19	23	0		
		1 RB	50	1882.5	26365	22.07	23	0		
		TIND	30							
				1905 1860	26590	22.14 22.25	23 23	0		
			ga	1882.5	26140 26365	22.28	23	0		
			33	1905	26590	22.20	23	0		
				1860	26140	21.11	22	0-1		
	QPSK		0	1882.5	26365	21.02	22	0-1		
				1905	26590	21.04	22	0-1		
				1860	26140	21.08	22	0-1		
		50 RB	25	1882.5	26365	20.97	22	0-1		
				1905	26590	21.01	22	0-1		
				1860	26140	20.99	22	0-1		
			50	1882.5	26365	20.97	22	0-1		
				1905	26590	21.14	22	0-1		
				1860	26140	21.12	22	0-1		
		100)RB	1882.5	26365	21.10	22	0-1		
20				1905	26590	21.16	22	0-1		
20				1860	26140	21.06	22	0-1		
			0	+ + + + + + + + + + + + + + + + + + + +	21.31	22	0-1			
			0 50 99 0 25 50	1905	26590	21.45	22	0-1		
				1860	26140	21.18	22	0-1		
		1 RB	50	1882.5	26365	21.39	22	0-1		
			0 50 99	1905	26590	21.42	22	0-1		
				1860	26140	21.00	22	0-1		
i			99	1882.5	26365	21.46	22	0-1		
				1905	26590	21.65	22	0-1		
				1860	26140	20.00	21	0-2		
	16-QAM		0	1882.5	26365	20.02	21	0-2		
				1905	26590	19.94	21	0-2		
				1860	26140	19.96	21	0-2		
100		50 RB	25	1882.5	26365	20.10	21	0-2		
				1905	26590	20.00	21	0-2		
				1860	26140	19.95	21	0-2		
			50	1882.5	26365	19.93	21	0-2		
				1905	26590	20.19	21	0-2		
				1860	26140	20.03	21	0-2		
		100)RB	1882.5	26365	19.98	21	0-2		
				1905	26590	20.10	21	0-2		

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			ED. 5	105 (5)				
			FDD Bai	nd 25 (Ful	l Power)			•
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1857.5	26115	22.33	23	0
			0	1882.5	26365	22.26	23	0
				1907.5	26615	22.07	23	0
				1857.5	26115	22.18	23	0
		1 RB	36	1882.5	26365	22.17	23	0
				1907.5	26615	22.23	23	0
				1857.5	26115	22.19	23	0
			74	1882.5	26365	22.11	23	0
				1907.5	26615	22.33	23	0
				1857.5	26115	21.06	22	0-1
	QPSK		0	1882.5	26365	Conducted power (dBm) Tolerance (dBm) Toleranc	0-1	
			AL.	1907.5	26615	20.98	22	0-1
				1857.5	26115	21.08	22	0-1
		36 RB	18	1882.5	26365	21.06	22	0-1
				1907.5	26615	21.10	22	0-1
				1857.5	26115	21.04	22	0-1
			37	1882.5	26365	20.93	22	0-1
				1907.5	26615	21.26	22	0-1
				1857.5	26115	20.98	22	0-1
		75	RB	1882.5	26365	20.91	22	0-1
45				1907.5	26615	21.07	22	0-1
15				1857.5	26115	20.85	22	0-1
			0	1882.5	26365	20.92	22	0-1
				1907.5	26615	21.12	22	0-1
				1857.5	26115	21.44	22	0-1
		1 RB	36	1882.5	26365	21.02	22	0-1
				1907.5	26615	20.98	22	0-1
				1857.5	26115	21.40	22	0-1
			74	1882.5	26365	20.98	22	0-1
				1907.5	26615	21.36	22	0-1
				1857.5	26115	20.06	21	0-2
	16-QAM		0	1882.5	26365	20.08	21	0-2
				1907.5	26615	19.94	21	0-2
				1857.5	26115	20.08	21	0-2
		36 RB	18	1882.5	26365	19.92	21	0-2
				1907.5	26615	20.03	21	0-2
				1857.5	26115	20.03	21	0-2
			37	1882.5	26365	19.94	21	0-2
				1907.5	26615	20.29	21	0-2
				1857.5	26115	19.93	21	0-2
		75	RB	1882.5	26365	19.94	21	0-2
				1907.5	26615	20.12	21	0-2

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					`			
			FDD Ba	nd 25 (Ful	I Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
				1855	26090	22.10	23	0
			0					
								0
							23	0
	b	1 RB	25	1882.5		22.19	23	0
				1910		22.31	23	0
				1855	26090	22.19	23	0
			49	1882.5	26365	22.13	23	0
				1910	26640	22.32	23	0
				1855	26090	21.06	22	0-1
	QPSK		0	1882.5	26365	21.16	22	0-1
				1910	26640	21.16	22	H MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1855	26090	21.16	Power + Max. Allower (dBm) 23	0-1
		25 RB	12	1882.5	26365	21.13	22	0-1
				1910	26640	21.31	22	0-1
				1855	26090	21.00	22	0-1
			25	1882.5	26365	21.03	22	0-1
				1910	26640	21.22	22	0-1
				1855	26090	21.02	22	0-1
		50	RB	1882.5	26365	20.91	22	0-1
10				1910	26640	21.08	22	0-1
10				1855	26090	21.03	22	0-1
			0	1882.5	26365	21.42	22	0-1
				1910	26640	21.32	22	0-1
				1855	26090	20.85	22	0-1
		1 RB	25	1882.5	Channel power (dBm) Max. Tolerance (dBm) Allowed 3GPP (dBm) 26090 22.10 23 0 26365 22.06 23 0 26640 22.18 23 0 26365 22.19 23 0 26365 22.19 23 0 26640 22.31 23 0 26365 22.19 23 0 26365 22.13 23 0 26365 22.13 23 0 26365 22.13 23 0 26365 22.13 23 0 26365 21.16 22 0-1 26365 21.16 22 0-1 26365 21.16 22 0-1 26365 21.13 22 0-1 26365 21.13 22 0-1 26365 21.13 22 0-1 26365 21.03 22 0-1	0-1		
				MHz (dBm) Tolerance (dBm) Tolerance (dBm) 1882.5 26365 22.06 23 1910 26640 22.18 23 1855 26090 22.17 23 1855 26090 22.17 23 1882.5 26365 22.19 23 1910 26640 22.31 23 1910 26640 22.31 23 23 1910 26640 22.32 23 23 1910 26640 22.32 23 23 1855 26090 21.06 22 22 1882.5 26365 21.16 22 1910 26640 21.16 22 1882.5 26365 21.16 22 1882.5 26365 21.13 22 1910 26640 21.31 22 22 1882.5 26365 21.03 22 1910 26640 21.02 22 1882.5 26365 21.03 22 1910 26640 21.02 22 1882.5 26365 21.03 22 1910 26640 21.02 22 1882.5 26365 20.91 22 1910 26640 21.03 22 1910 26640 21.03 22 1910 26640 21.03 22 1910 26640 21.03 22 1910 26640 21.03 22 1882.5 26365 21.42 22 1910 26640 21.32 22 1855 26090 21.03 22 1855 26090 21.03 22 1855 26090 21.03 22 1855 26090 21.03 22 1855 26090 21.03 22 1855 26090 21.03 22 1855 26090 21.44 22 1910 26640 21.42 22 1910 26640 21.42 22 1855 26090 21.13 22 1855 26090 21.13 22 1855 26090 21.13 22 1855 26090 21.14 22 22 1855 26090 21.14 22 22 1855 26090 21.14 22 22 1855 26090 21.14 22 22 1855 26090 20.05 21 1882.5 26365 20.08 21 1910 26640 20.16 21 1855 26090 20.07 21 1855 26090 20.07 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04 21 1855 26090 20.04	22	0-1		
				1855	26090	21.13	22	0-1
			49	1882.5	26365	21.09	22	0-1
				1910	26640	21.48	22	0-1
				1855	26090	19.98	21	0-2
	16-QAM		0	1882.5	26365	20.08	21	0-2
				1855	26090	20.07	21	0-2
		25 RB	12					
FOL								
			25				21	
					26090	19.91	21	0-2
		50	RB			19.84		0-2
				1910	26640	20.17	21	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)				
			0	1852.5 1882.5 1912.5	26065 26365 26665	22.12 22.10 22.26	23 23 23	0 0				
		1 RB	12	1852.5 1882.5	26065 26365	22.07 22.06	23 23	0				
			24	1912.5 1852.5 1882.5	26665 26065 26365	22.29 22.13 22.04	23 23 23	0 0				
QPSK		0	1912.5 1852.5 1882.5	26665 26065 26365	22.30 21.20 21.22	23 22 22	0 0-1 0-1					
		12 RB	6	1912.5 1852.5 1882.5	26665 26065 26365	21.27 21.16 21.17	22 22 22	0-1 0-1 0-1				
			13	1912.5 1852.5 1882.5	26665 26065 26365	21.23 21.20 21.11	22 22 22	0-1 0-1 0-1				
		25	RB	1912.5 1852.5 1882.5	26665 26065 26365	21.28 21.04 21.07	22 22 22	0-1 0-1 0-1				
5				1912.5 1852.5	26665 26065	21.23 21.29	22	0-1 0-1				
			0	1882.5 1912.5 1852.5	26365 26665 26065	21.37 21.30 21.24	22 22 22	0-1 0-1 0-1				
		1 RB	12	1882.5 1912.5	26365 26665	21.04 21.30	22 22	0-1 0-1				
			24	1852.5 1882.5 1912.5	26065 26365 26665	21.39 21.34 21.13	22 22 22	0-1 0-1 0-1				
	16-QAM		0	1852.5 1882.5 1912.5	26065 26365 26665	20.08 20.10 20.32	21 21 21	0-2 0-2 0-2				
G		12 RB	6	1852.5 1882.5	26065 26365	20.15 20.09	21 21	0-2 0-2				
			13	1912.5 1852.5 1882.5	26665 26065 26365	20.35 20.25 20.21	21 21 21	0-2 0-2 0-2				
		25	RB	1912.5 1852.5	26665 26065 26365	20.35 19.97	21 21	0-2 0-2				
		25	IVD	1882.5 1912.5	26665	20.08 20.18	21 21	0-2 0-2				

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			FDD Bar	nd 25 (Ful	l Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)						
		V	0	1851.5 1882.5	26055 26365	22.08 22.03	23 23	0						
2				1913.5 1851.5	26675 26055	22.30 22.20	23 23	0						
		1 RB	7	1882.5 1913.5	26365 26675	22.17 22.20	23 23	0						
		14	1851.5 1882.5	26055 26365	22.14 22.18	23	0							
	QPSK		0	1913.5 1851.5 1882.5	26675 26055 26365	22.24 21.16 21.27	23 22 22	0 0-1 0-1						
	8 RB		1913.5 1851.5	26675 26055	21.33 21.22	22	0-1 0-1							
		8 RB	4	1882.5 1913.5	26365 26675	21.19 21.27	22 22	0-1 0-1						
			7	1851.5 1882.5	26055 26365	21.22 21.26	22	0-1 0-1						
		15	RB	1913.5 1851.5 1882.5	26675 26055 26365	21.28 21.19 21.20	22 22 22	0-1 0-1 0-1						
3				1913.5 1851.5	26675 26055	21.25 20.97	22	0-1 0-1						
			0	1882.5 1913.5	26365 26675	21.53 20.95	22 22	0-1 0-1						
	1	1 RB	1 RB	1 RB	1 RB	1 RB	1 RB	1 RB	7	1851.5 1882.5	26055 26365	20.82 21.14	22 22	0-1 0-1
				1913.5 1851.5	26675 26055	21.22	22	0-1 0-1						
			14	1882.5 1913.5 1851.5	26365 26675 26055	21.38 21.25 20.17	22 22 21	0-1 0-1 0-2						
	16-QAM		0	1882.5 1913.5	26365 26675	20.19	21	0-2 0-2						
		8 RB	4	1851.5 1882.5	26055 26365	20.00 20.04	21 21	0-2 0-2						
		7	1913.5 1851.5	26675 26055	20.24	21	0-2 0-2							
			,	1882.5 1913.5 1851.5	26365 26675 26055	20.12 20.40 20.12	21 21 21	0-2 0-2 0-2						
		15F		1882.5 1913.5	26365 26675	20.10	21	0-2 0-2 0-2						

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			EDD Day	- d OF /F. d	I Davisan)			
			FDD Rai	nd 25 (Ful	i Power)		Torret	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1				1850.7	26047	22.06	23	0
			0	1882.5	26365	22.10	23	0
				1914.3	26683	22.24	23	0
				1850.7	26047	22.12	23	0
		1 RB	2	1882.5	26365	22.15	23	0
				1914.3	26683	22.29	23	0
				1850.7	26047	22.11	23	0
			5	1882.5	26365	22.16	23	0
				1914.3	26683	22.28	23	0
				1850.7	26047	21.07	22	0-1
	QPSK		0	1882.5	26365	21.04	22	0-1
				1914.3	26683	21.24	22	0-1
			64 1	1850.7	26047	21.16	22	0-1
		3 RB	2	1882.5	26365	21.06	22	0-1
				1914.3	26683	21.18	22	0-1
				1850.7	26047	21.01	22	0-1
			3	1882.5	26365	21.09	22	0-1
				1914.3	26683	21.05	22	0-1
				1850.7	26047	20.11	22	0-1
	_	6F	RB	1882.5	26365	20.14	22	0-1
1.4				1914.3	26683	20.23	22	0-1
1.4				1850.7	26047	21.04	22	0-1
			0	1882.5	26365	21.06	22	0-1
				1914.3	26683	21.34	22	0-1
				1850.7	26047	21.09	22	0-1
		1 RB	2	1882.5	26365	21.36	22	0-1
				1914.3	26683	21.15	22	0-1
				1850.7	26047	21.43	22	0-1
			5	1882.5	26365	21.10	22	0-1
				1914.3	26683	20.89	22	0-1
				1850.7	26047	20.03	21	0-2
	16-QAM		0	1882.5	26365	20.17	21	0-2
				1914.3	26683	20.28	21	0-2
		0.55		1850.7	26047	19.86	21	0-2
		3 RB	2	1882.5	26365	20.10	21	0-2
				1914.3	26683	20.25	21	0-2
			_	1850.7	26047	20.14	21	0-2
			3	1882.5	26365	19.96	21	0-2
				1914.3	26683	20.17	21	0-2
		25	ND.	1850.7	26047	19.13	21	0-2
		6F	RB	1882.5	26365	19.14	21	0-2
				1914.3	26683	19.25	21	0-2

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				05 (D : 1						
		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)		
				1860	26140	19.75	20	0		
04			0	1882.5	26365	19.66	20	0		
				1905	26590	19.60	20	0		
				1860	26140	19.81	20	0		
		1 RB	50	1882.5	26365	19.72	20	0		
				1905	26590	19.69	20	0		
				1860	26140	19.80	20	0		
			99	1882.5	26365	19.65	20	0		
				1905	26590	19.93	20	0		
				1860	26140	19.53	20	0-1		
	QPSK		0	1882.5	26365	19.49	20	0-1		
				1905	26590	19.46	20	0-1		
				1860	26140	19.58	20	0-1		
		50 RB	25	1882.5	26365	19.50	20	0-1		
			1905	26590	19.46	20	0-1			
				1860	26140	19.63	20	0-1		
			50	1882.5	26365	19.49	20	0-1		
	-			1905	26590	19.64	20	0-1		
				1860	26140	19.59	20	0-1		
		100)RB	1882.5	26365	19.47	20	0-1		
20				1905	26590	19.61	20	0-1		
				1860	26140	19.78	20	0-1		
			0	1882.5	26365	19.66	20	0-1		
				1905	26590	19.62	20	0-1		
				1860	26140	19.83	20	0-1		
		1 RB	50	1882.5	26365	19.73	20	0-1		
				1905	26590	19.67	20	0-1		
				1860	26140	19.75	20	0-1		
			99	1882.5	26365	19.60	20	0-1		
				1905	26590	19.85	20	0-1		
				1860	26140	19.53	20	0-2		
	16-QAM		0	1882.5	26365	19.39	20	0-2		
(Cal				1905	26590	19.39	20	0-2		
		50.55	0.5	1860	26140	19.59	20	0-2		
		50 RB	25	1882.5	26365	19.40	20	0-2		
				1905	26590	19.44	20	0-2		
			50	1860	26140	19.59	20	0-2		
			50	1882.5	26365	19.39	20	0-2		
				1905	26590	19.59	20	0-2		
		400	NDD.	1860	26140	19.54	20	0-2		
		100)RB	1882.5	26365	19.48	20	0-2		
				1905	26590	19.62	20	0-2		

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FDD Band 25 (Reduced Power)									
		Г	Do Danio	23 (Neuul	ceu rowe	71 <i>)</i>	Target	ı	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)	
				1857.5	26115	19.79	20	0	
			0	1882.5	26365	19.75	20	0	
				1907.5	26615	19.65	20	0	
				1857.5	26115	19.75	20	0	
		1 RB	36	1882.5	26365	19.77	20	0	
				1907.5	26615	19.81	20	0	
				1857.5	26115	19.82	20	0	
			74	1882.5	26365	19.65	20	0	
				1907.5	26615	19.91	20	0	
				1857.5	26115	19.71	20	0-1	
	QPSK		0	1882.5	26365	19.58	20	0-1	
				1907.5	26615	19.53	20	0-1	
				1857.5	26115	19.67	20	0-1	
		36 RB	18	1882.5	26365	19.63	20	0-1	
				1907.5	26615	19.65	20	0-1	
			0.7	1857.5	26115	19.70	20	0-1	
			37	1882.5	26365	19.47	20	0-1	
04				1907.5	26615	19.79	20	0-1	
		75	DD	1857.5	26115	19.62	20	0-1	
		75	RB	1882.5	26365	19.49	20	0-1	
15			1	1907.5	26615	19.64	20	0-1	
			0	1857.5	26115	19.71	20	0-1	
				1882.5	26365	19.72	20	0-1	
				1907.5	26615	19.64	20 20	0-1 0-1	
		1 RB	36	1857.5 1882.5	26115 26365	19.78 19.70	20	0-1	
		TIND	30	1907.5	26615	19.70	20	0-1	
				1857.5	26115	19.72	20	0-1	
			74	1882.5	26365	19.59	20	0-1	
				1907.5	26615	19.90	20	0-1	
				1857.5	26115	19.62	20	0-2	
	16-QAM		0	1882.5	26365	19.53	20	0-2	
				1907.5	26615	19.49	20	0-2	
				1857.5	26115	19.63	20	0-2	
		36 RB	18	1882.5	26365	19.55	20	0-2	
				1907.5	26615	19.63	20	0-2	
				1857.5	26115	19.66	20	0-2	
			37	1882.5	26365	19.49	20	0-2	
				1907.5	26615	19.76	20	0-2	
			-	1857.5	26115	19.54	20	0-2	
		75	RB	1882.5	26365	19.43	20	0-2	
				1907.5	26615	19.59	20	0-2	

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BW(Mhz)	Modulation QPSK	RB Size	RB Offset 0 25	25 (Reduce Frequency (MHz) 1855 1882.5 1910 1855 1882.5 1910 1855	Channel 26090 26365 26640 26090 26365	Conducted power (dBm) 19.75 19.71 19.68 19.81	Target Power + Max. Tolerance (dBm) 20 20 20 20	MPR Allowed per 3GPP(dB) 0 0 0
30	QPSK	1 RB	25	1882.5 1910 1855 1882.5 1910	26365 26640 26090	19.71 19.68 19.81	20 20 20	0
	QPSK	1 RB	25	1882.5 1910 1855 1882.5 1910	26365 26640 26090	19.71 19.68 19.81	20 20	0
	QPSK	1 RB	25	1910 1855 1882.5 1910	26640 26090	19.68 19.81	20	0
	QPSK	1 RB		1855 1882.5 1910	26090	19.81		
	QPSK	1 RB		1882.5 1910			20	
	QPSK			1910	20303	19.72	20	0
	QPSK		49		26640	19.72	20	0
	QPSK		49	IXAA	26090	19.83	20	0
	QPSK			1882.5	26365	19.63	20	0
	QPSK			1910	26640	19.85	20	0
	QPSK			1855	26090	19.69	20	0-1
	Q, O,		0	1882.5	26365	19.63	20	0-1
				1910	26640	19.70	20	0-1
				1855	26090	19.76	20	0-1
		25 RB	12	1882.5	26365	19.70	20	0-1
		20112		1910	26640	19.75	20	0-1
				1855	26090	19.60	20	0-1
			25	1882.5	26365	19.56	20	0-1
				1910	26640	19.73	20	0-1
	· -			1855	26090	19.73	20	0-1
		50	RB	1882.5	26365	19.48	20	0-1
		00		1910	26640	19.46	20	0-1
10			0	1855	26090	19.74	20	0-1
				1882.5	26365	19.77	20	0-1
				1910	26640	19.70	20	0-1
				1855	26090	19.80	20	0-1
		1 RB	25	1882.5	26365	19.66	20	0-1
				1910	26640	19.79	20	0-1
				1855	26090	19.69	20	0-1
			49	1882.5	26365	19.62	20	0-1
				1910	26640	19.82	20	0-1
	F			1855	26090	19.59	20	0-2
	16-QAM		0	1882.5	26365	19.58	20	0-2
		The state of the s		1910	26640	19.70	20	0-2
				1855	26090	19.63	20	0-2
		25 RB	12	1882.5	26365	19.66	20	0-2
				1910	26640	19.69	20	0-2
				1855	26090	19.63	20	0-2
			25	1882.5	26365	19.53	20	0-2
				1910	26640	19.67	20	0-2
	ŀ			1855	26090	19.55	20	0-2
		50	RB	1882.5	26365	19.45	20	0-2
		30		1910	26640	19.43	20	0-2

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			DD Band	ced Power)					
	FDD Band 2				ceu Powe	i <i>)</i>	Target		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
1				1852.5	26065	19.75	20	0	
			0	1882.5	26365	19.70	20	0	
				1912.5	26665	19.78	20	0	
				1852.5	26065	19.76	20	0	
		1 RB	12	1882.5	26365	19.73	20	0	
				1912.5	26665	19.87	20	0	
				1852.5	26065	19.80	20	0	
			24	1882.5	26365	19.69	20	0	
				1912.5	26665	19.81	20	0	
				1852.5	26065	19.78	20	0-1	
	QPSK		0	1882.5	26365	19.75	20	0-1	
				1912.5	26665	19.83	20	0-1	
			6	1852.5	26065	19.71	20	0-1	
		12 RB	6	1882.5	26365	19.72	20	0-1	
				1912.5	26665	19.75	20	0-1	
				1852.5	26065	19.76	20	0-1	
		13	1882.5	26365	19.73	20	0-1		
			1912.5	26665	19.83	20	0-1		
				1852.5	26065	19.71	20	0-1	
	-	25	RB	1882.5	26365	19.63	20	0-1	
5				1912.5	26665	19.65	20	0-1	
				1852.5	26065	19.72	20	0-1	
			0	1882.5	26365	19.70	20	0-1	
				1912.5	26665	19.80	20	0-1	
				1852.5	26065	19.75	20	0-1	
		1 RB	12	1882.5	26365	19.63	20	0-1	
				1912.5	26665	19.84	20	0-1	
				1852.5	26065	19.75	20	0-1	
			24	1882.5	26365	19.70	20	0-1	
				1912.5	26665	19.80	20	0-1	
				1852.5	26065	19.80	20	0-2	
	16-QAM		0	1882.5	26365	19.73	20	0-2	
				1912.5	26665	19.81	20	0-2	
		40 DD	_	1852.5	26065	19.76	20	0-2	
		12 RB	6	1882.5	26365	19.69	20	0-2	
				1912.5	26665	19.73	20	0-2	
			12	1852.5	26065	19.79	20	0-2	
			13	1882.5	26365	19.69	20	0-2	
				1912.5	26665	19.80	20	0-2	
		O.F.	DR	1852.5	26065	19.59	20	0-2	
		25	RB	1882.5	26365	19.59	20	0-2	
				1912.5	26665	19.66	20	0-2	

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		F	DD Band	25 (Redu	ced Powe	<u> </u>		
			DD Danu	Zo (Nedu	CGG I OWE	,1)	Target	
				Eroguenev		Conducted	Power +	MPR
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency	Channel	power	Max.	Allowed per
				(MHz)		(dBm)	Tolerance	3GPP(dB)
						, ,	(dBm)	` ,
				1851.5	26055	19.76	20	0
			0	1882.5	26365	19.68	20	0
				1913.5	26675	19.84	20	0
				1851.5	26055	19.78	20	0
	b	1 RB	7	1882.5	26365	19.71	20	0
				1913.5	26675	19.83	20	0
				1851.5	26055	19.74	20	0
			14	1882.5	26365	19.72	20	0
				1913.5	26675	19.83	20	0
				1851.5	26055	19.80	20	0-1
	QPSK		0	1882.5	26365	19.76	20	0-1
				1913.5	26675	19.82	20	0-1
				1851.5	26055	19.80	20	0-1
		8 RB	4	1882.5	26365	19.69	20	0-1
				1913.5	26675	19.86	20	0-1
				1851.5	26055	19.90	20	0-1
			7	1882.5	26365	19.74	20	0-1
				1913.5	26675	19.84	20	0-1
			<u>l</u>	1851.5	26055	19.82	20	0-1
		15	RB	1882.5	26365	19.71	20	0-1
	1	10		1913.5	26675	19.78	20	0-1
3			I	1851.5	26055	19.71	20	0-1
			0		26365	19.71	20	0-1
			0	1882.5				0-1
				1913.5	26675	19.81 19.78	20 20	
		1 RB	7	1851.5	26055			0-1
		י ייט	'	1882.5 1913.5	26365	19.73	20 20	0-1 0-1
					26675	19.85 19.71	20	0-1
			14	1851.5 1882.5	26055 26365	19.71	20	0-1
			- 17	1913.5			20	
					26675	19.75		0-1
	16-QAM		0	1851.5	26055	19.73	20	0-2
	10-QAW		J	1882.5	26365	19.66	20	0-2
				1913.5	26675	19.74	20	0-2
		8 RB	4	1851.5	26055	19.74	20	0-2
		0 KD	4	1882.5	26365	19.64	20	0-2
			<u> </u>	1913.5	26675	19.77	20	0-2
PO A			7	1851.5	26055	19.77	20	0-2
			7	1882.5	26365	19.69	20	0-2
				1913.5	26675	19.83	20	0-2
			DD	1851.5	26055	19.79	20	0-2
		15	RB	1882.5	26365	19.70	20	0-2
				1913.5	26675	19.77	20	0-2

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		F	DD Band	25 (Redu	ced Powe	er)		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1850.7	26047	19.81	20	0
			0	1882.5	26365	19.74	20	0
				1914.3	26683	19.90	20	0
				1850.7	26047	19.85	20	0
		1 RB	2	1882.5	26365	19.70	20	0
				1914.3	26683	19.85	20	0
				1850.7	26047	19.83	20	0
			5	1882.5	26365	19.76	20	0
				1914.3	26683	19.87	20	0
				1850.7	26047	19.84	20	0-1
	QPSK		0	1882.5	26365	19.78	20	0-1
				1914.3	26683	19.90	20	0-1
				1850.7	26047	19.83	20	0-1
		3 RB	2	1882.5	26365	19.72	20	0-1
				1914.3	26683	19.77	20	0-1
				1850.7	26047	19.77	20	0-1
			3	1882.5	26365	19.69	20	0-1
				1914.3	26683	19.80	20	0-1
				1850.7	26047	19.80	20	0-1
	<u> </u>	6F	RB	1882.5	26365	19.72	20	0-1
				1914.3	26683	19.85	20	0-1
1.4				1850.7	26047	19.69	20	0-1
			0	1882.5	26365	19.65	20	0-1
				1914.3	26683	19.82	20	0-1
				1850.7	26047	19.73	20	0-1
		1 RB	2	1882.5	26365	19.64	20	0-1
				1914.3	26683	19.74	20	0-1
				1850.7	26047	19.74	20	0-1
			5	1882.5	26365	19.71	20	0-1
				1914.3	26683	19.72	20	0-1
				1850.7	26047	19.81	20	0-2
	16-QAM		0	1882.5	26365	19.76	20	0-2
				1914.3	26683	19.87	20	0-2
				1850.7	26047	19.82	20	0-2
		3 RB	2	1882.5	26365	19.75	20	0-2
				1914.3	26683	19.78	20	0-2
				1850.7	26047	19.85	20	0-2
			3	1882.5	26365	19.75	20	0-2
				1914.3	26683	19.83	20	0-2
				1850.7	26047	19.83	20	0-2
		6F	RB	1882.5	26365	19.76	20	0-2
				1914.3	26683	19.86	20	0-2

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CDMA conducted power table:

		icteu po				1vDTT		Г	'DO
						1xRTT		EV	DO
Band	Channel	Frequency (MHz)	Tune-up tolerance	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
ODMA	1013	824.7	23.50	22.92	22.86	22.69	22.75	22.96	22.94
CDMA (BC0)	384	836.52	23.50	22.93	22.88	22.67	23.01	23.11	22.98
(500)	777	848.31	23.50	22.75	22.74	22.66	22.74	22.76	22.72
CDMA	25	1851.25	24.00	23.61	23.62	23.65	23.61	23.72	23.64
CDMA (BC1)	600	1880	24.00	23.59	23.58	23.61	23.62	23.66	23.58
(501)	1175	1908.75	24.00	23.49	23.48	23.49	23.46	23.62	23.49
00144	476	817.9	23.50	22.95	22.88	22.94	22.86	22.97	22.89
CDMA (BC10)	560	820	23.50	22.98	22.95	22.98	22.97	23.04	22.92
(5010)	684	823.1	23.50	23.02	22.97	22.99	22.96	23.05	22.97

CDMA conducted power table (Reduced power):

CDIVIA	Conde	icteu po	wci ta	DIC (IX	Cuuce	u power).			
						1xRTT		EV	DO
Band	Channel	Frequency (MHz)	Tune-up tolerance	\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	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
ODMA	1013	824.7	20.00	19.16	19.12	19.06	18.94	19.23	19.11
CDMA (BC0)	384	836.52	20.00	18.98	18.93	18.97	18.91	19.20	19.04
(DCO)	777	848.31	20.00	19.02	19.01	18.99	19.96	19.06	18.92
00144	25	1851.25	20.00	18.65	18.64	18.65	18.63	18.76	18.63
CDMA (BC1)	600	1880	20.00	18.64	18.61	18.66	18.62	18.72	18.59
(BC1)	1175	1908.75	20.00	18.57	18.56	18.58	18.54	18.67	18.45
00144	476	817.9	20.00	18.91	18.79	18.88	18.78	18.92	18.85
CDMA (BC10)	560	820	20.00	18.95	18.84	18.94	18.85	18.96	18.88
(DC10)	684	823.1	20.00	18.99	18.97	18.94	18.87	19.00	18.95

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

". WEATOOZ. 11 a/ b/ g/ 11	(LOM) TOM) / GO(LOM	i, Tolvi, oolvi, oollaa	oted power table.
Antenna	SIS	80	MIMO
Band	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 (CHO)

		7tiltoillia (
	8	02.11 b	Max. Rated Avg.	Average Power Output (dBm)
		Frequency	Power + Max.	Data Rate (Mbps)
	СН	(MHz)	Tolerance (dBm)	1
1	1	2412	15	13.82
	6	2437	15	14.16
	11	2462	15	14.47

802.11 g		Max. Rated Avg.	Average Power Output (dBm)			
СН	Frequency (MHz)	Power + Max. Tolerance (dBm)	Data Rate (Mbps)			
			6			
1	2412	14	12.02			
6	2437	14	13.78			
11	2462	11.5	11.33			

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Main Antenna (CHO)

	Walli Aliterila (Olio)					
802.11 n(20M)		11 n(20M)	Max. Rated Avg. Power + Max.	Average Power Output (dBm)		
СН	Frequency	Data Rate (Mbps)				
	СП	Frequency (MHz)	Tolerance (dBm)	6.5		
	1	2412	11.5	11.48		
1	6	2437	14	13.66		
	11	2462	11.5	11.25		

802.11 n(40M)		Max. Rated Avg.	Average Power Output (dBm)
СН	Frequency (MHz)	Power + Max. Tolerance (dBm)	Data Rate (Mbps)
			13.5
3	2422	12	11.58
6	2437	14	13.61
9	2452	12	11.05

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Main Antenna (CH0)			
802.11 a 5.2/5.3/5.6/5.8G		Max. Rated Avg.	Average Power Output(dBm)
СН	Frequency (MHz)	Power + Max. Tolerance	Data Rate (Mbps)
-4-		(dBm)	6
36	5180	11.5	11.52
40	5200	14	12.41
44	5220	14	12.37
48	5240	14	12.46
52	5260	14	13.38
56	5280	14	13.45
60	5300	14	13.58
64	5320	11.5	11.42
100	5500	11.5	11.91
104	5520	14.5	14.16
108	5540	14.5	13.72
112	5560	14.5	13.62
116	5580	14.5	13.58
120	5600	14.5	13.48
124	5620	14.5	13.41
128	5640	14.5	13.37
132	5660	14.5	13.31
136	5680	14.5	13.25
140	5700	11.5	11.11
149	5745	14.5	13.22
153	5765	14.5	13.25
157	5785	14.5	13.15
161	5805	14.5	13.47
165	5825	14.5	13.01

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Main Antenna (CHO)			
802	.11 n(20M)	Max. Rated	Average Power Output(dBm)
5.2/5	5.3/5.6/5.8G	Avg. Power + Max.	,
СН	Frequency	Tolerance	Data Rate (Mbps)
011	(MHz)	(dBm)	6.5
36	5180	11.5	11.77
40	5200	14	12.41
44	5220	14	12.57
48	5240	14	12.71
52	5260	14	13.18
56	5280	14	13.34
60	5300	14	13.42
64	5320	12.5	11.28
100	5500	12.5	12.17
104	5520	14.5	14.06
108	5540	14.5	13.61
112	5560	14.5	13.52
116	5580	14.5	13.44
120	5600	14.5	13.35
124	5620	14.5	13.31
128	5640	14.5	13.27
132	5660	14.5	13.18
136	5680	14.5	13.57
140	5700	11	10.82
149	5745	14	13.24
153	5765	14	13.53
157	5785	14	13.47
161	5805	14	13.39
165	5825	14	12.84

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Main Antenna (CHO)

Antenna (CHU)	
.11 n(40M)	Max. Rated	Average Power Output(dBm)
.3/5.6/5.8G		,
Frequency	Tolerance	Data Rate (Mbps)
(MHz)	(dBm)	13.5
5190	9	8.59
5230	13.5	12.75
5270	13.5	13.24
5310	12	11.16
5510	12	11.68
5550	14	13.36
5590	14	13.37
5630	14	13.21
5670	14	13.48
5710	14	13.95
5755	14	13.85
5795	14	13.81
	11 n(40M) .3/5.6/5.8G Frequency (MHz) 5190 5230 5270 5310 5510 5550 5590 5630 5670 5710 5755	Avg. Power + Max. Tolerance (dBm) 5190 9 5230 13.5 5270 13.5 5310 12 5510 12 5550 14 5590 14 5630 14 5670 14 5710 14 5755 14

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Main Antenna (CHO)			
802.11 ac(20M) 5.2/5.3/5.6/5.8G		Max. Rated Avg.	Average Power Output(dBm)
5.2/5	Frequency	Power + Max.	Data Rate (Mbps)
СН	(MHz)	Tolerance (dBm)	6.5
36	5180	12	11.11
40	5200	14.5	12.59
44	5220	14.5	12.75
48	5240	14.5	12.77
52	5260	14.5	13.58
56	5280	14.5	13.76
60	5300	14.5	13.38
64	5320	12.5	11.29
100	5500	12.5	12.13
104	5520	14.5	14.02
108	5540	14.5	13.59
112	5560	14.5	13.47
116	5580	14.5	13.41
120	5600	14.5	13.39
124	5620	14.5	13.28
128	5640	14.5	13.24
132	5660	14.5	13.19
136	5680	14.5	13.49
140	5700	12.5	10.77
144	5720	12.5	12.00
149	5745	13.5	13.19
153	5765	13.5	13.16
157	5785	13.5	13.02
161	5805	13.5	12.96
165	5825	13.5	12.97

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Main Antenna (CHO)

<u>iviain Antenna (CHU)</u>			
802.	11 ac(40M)	Max. Rated	Average Power Output(dBm)
5.2/5	.3/5.6/5.8G	Avg. Power + Max.	Trongs Fores Garpar(azin)
СН	Frequency	Tolerance	Data Rate (Mbps)
CIT	(MHz)	(dBm)	13.5
38	5190	9.5	9.02
46	5230	13.5	13.08
54	5270	13.5	13.27
62	5310	12	11.19
102	5510	12	11.67
110	5550	14	13.48
118	5590	14	13.31
126	5630	14	13.19
134	5670	14	13.44
142	5710	14	13.51
151	5755	14	13.42
159	5795	14	13.84

11 ac(80M)	Max. Rated	Average Power Output(dBm)
.3/5.6/5.8G	J	3 · · · · · · · · · · · · · · · · · · ·
Frequency	Tolerance	Data Rate (Mbps)
(MHz)	(dBm)	29.3
5210	12	10.64
5290	12	11.32
5530	12	11.29
5610	14	12.09
5690	14	13.72
5775	14	13.54
	.3/5.6/5.8G Frequency (MHz) 5210 5290 5530 5610 5690	.3/5.6/5.8G Frequency (MHz) 5210 5290 12 5530 12 5610 14 5690 14

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Aux Antenna (CH1)

	Adx Antenna (OTT)				
	802.11 b		Max. Rated Avg.	Average Power Output (dBm)	
		Frequency	Power + Max. Tolerance (dBm)	Data Rate (Mbps)	
(CH	Frequency (MHz)		1	
	1	2412	15	14.76	
	6	2437	15	14.47	
	11	2462	15	15.00	

8	302.11 g	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CII	Frequency		Data Rate (Mbps)
СП	CH Frequency (MHz) To		6
1	2412	14	13.21
6	2437	14	13.92
11	2462	11.5	11.24

	802.11 n(20M)		Max. Rated Avg.	Average Power Output (dBm)
1	כם	Frequency (MHz)	Power + Max. Tolerance (dBm)	Data Rate (Mbps)
	CH			6.5
	1	2412	14	13.34
	6	2437	14	13.82
	11	2462	11.5	11.13

802	.11 n(40M)	Max. Rated Avg.	Average Power Output (dBm)
СН	Frequency	Power + Max.	Data Rate (Mbps)
СП	CH Frequency Power + Ma Tolerance (de	Tolerance (dBm)	13.5
3	2422	12	11.95
6	2437	14	13.69
9	2452	10.5	10.11

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Aux Antenna (CH1)			
	02.11 a .3/5.6/5.8G	Max. Rated Avg.	Average Power Output(dBm)
СН	Frequency (MHz)	Power + Max. Tolerance	Data Rate (Mbps)
24		(dBm)	6
36	5180	14	12.72
40	5200	14	13.36
44	5220	14	13.59
48	5240	14	13.46
52	5260	14	13.85
56	5280	14	13.65
60	5300	14	13.41
64	5320	11.5	11.06
100	5500	11.5	11.29
104	5520	14.5	12.80
108	5540	14.5	13.31
112	5560	14.5	13.39
116	5580	14.5	13.31
120	5600	14.5	13.42
124	5620	14.5	13.46
128	5640	14.5	13.57
132	5660	14.5	13.66
136	5680	14.5	14.04
140	5700	11.5	11.31
149	5745	14	13.46
153	5765	14	13.41
157	5785	14	13.52
161	5805	14	13.92
165	5825	14	13.31

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Aux Antenna (CH1)			
	802.11 n(20M) Max. Rated		Average Power Output(dBm)
5.2/5	5.3/5.6/5.8G	Avg. Power + Max.	<u> </u>
СН	Frequency	Tolerance	Data Rate (Mbps)
0.1	(MHz)	(dBm)	6.5
36	5180	14	12.86
40	5200	14	13.48
44	5220	14	13.44
48	5240	14	13.31
52	5260	14	13.56
56	5280	14	13.44
60	5300	13.3	13.27
64	5320	11.5	10.89
100	5500	11.5	11.06
104	5520	14	13.38
108	5540	14	13.02
112	5560	14	13.38
116	5580	14	12.95
120	5600	14	13.33
124	5620	14	13.43
128	5640	14	13.11
132	5660	14	13.73
136	5680	14	13.79
140	5700	11.5	11.02
149	5745	14.5	13.48
153	5765	14.5	13.37
157	5785	14.5	14.34
161	5805	14.5	13.24
165	5825	14.5	13.19
L	l .		

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Aux Antenna (CH1)

Antenna (C	H I)	
.11 n(40M)	Max. Rated	Average Power Output(dBm)
.3/5.6/5.8G		Average Fower Output (dBill)
Frequency	Tolerance	Data Rate (Mbps)
(MHz)	(dBm)	13.5
5190	11.5	11.19
5230	14	13.53
5270	13.7	13.62
5310	11.5	10.92
5510	11.5	11.46
5550	14.5	12.96
5590	14.5	12.91
5630	14.5	13.31
5670	14.5	13.89
5710	14.5	14.39
5755	14.5	14.36
5795	14.5	14.28
	11 n(40M) .3/5.6/5.8G Frequency (MHz) 5190 5230 5270 5310 5510 5550 5590 5630 5670 5710 5755	Avg. Power + Max. Tolerance (dBm) 5190 11.5 5230 14 5270 13.7 5310 11.5 5510 11.5 5550 14.5 5630 14.5 5670 14.5 5710 14.5 5710 14.5

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Aux Antenna (CH1)			
7		Average Power Outr	
5.2/5.3/5.6/5.8G		Avg. Power + Max.	Average rower output (ubin)
СН	Frequency	Tolerance	Data Rate (Mbps)
CIT	(MHz)	(dBm)	6.5
36	5180	14	12.72
40	5200	14	13.54
44	5220	14	13.35
48	5240	14	13.29
52	5260	14	13.62
56	5280	14	13.48
60	5300	14	13.24
64	5320	11.5	10.95
100	5500	11.5	11.16
104	5520	14	13.35
108	5540	14	12.92
112	5560	14	13.31
116	5580	14	12.97
120	5600	14	13.34
124	5620	14	13.42
128	5640	14	13.46
132	5660	14	13.83
136	5680	14	13.95
140	5700	11.5	11.25
144	5720	13.5	13.04
149	5745	13.5	13.46
153	5765	13.5	13.43
157	5785	13.5	13.38
161	5805	13.5	13.32
165	5825	13.5	13.14

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Aux Antenna (CH1)

Aux I	Antenna (C	H I)	
802.11 ac(40M)		Max. Rated	Average Power Output(dBm)
5.2/5.3/5.6/5.8G		Avg. Power + Max.	and a second and a second
СН	Frequency	Tolerance	Data Rate (Mbps)
CIT	(MHz)	(dBm)	13.5
38	5190	11.5	11.04
46	5230	14	13.73
54	5270	13.5	13.41
62	5310	11.5	10.86
102	5510	11.5	11.42
110	5550	14.5	13.27
118	5590	14.5	13.19
126	5630	14.5	13.37
134	5670	14.5	13.86
142	5710	14.5	14.36
151	5755	14.5	14.34
159	5795	14.5	14.23

802.11 ac(80M)		Max. Rated Avg.	Average Power Output(dBm)
5.2/5	.3/5.6/5.8G	J	
СН	Frequency	Power + Max. Tolerance	Data Rate (Mbps)
СП	H (MHz) (dBm)		29.3
42	5210	12.5	11.41
58	5290	12.5	10.82
106	5530	12.5	10.57
122	5610	12.5	12.21
138	5690	14.5	14.19
155	5775	14.5	14.46

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MIMO (CH0 + CH1)

	willing (crite i criti)							
802.11 n(20M)		Max. Rated Avg.	Average Power Output (dBm)					
СН	Frequency Power + Max.		Data Rate (Mbps)					
СН	(MHz)		CH0	CH1	CH0 + CH1			
1	2412	14	9.87	10.21	13.05			
6	2437	14	10.31	10.55	13.44			
11	2462	14	10.60	10.63	13.63			

802.11 n(40M)		Max. Rated Avg.	Average Power Output (dBm)			
CII	Frequency	Power + Max.		Data Rate (Mbps)		
СН	(MHz)	Tolerance (dBm)	CH0	CH1	CH0 + CH1	
3	2422	14	7.47	8.09	10.80	
6	2437	14	10.65	10.46	13.57	
9	2452	14	7.71	7.74	10.74	

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MIMO(CHO + CH1)

	.11 n(20M)	May Dated Ava	Avera	age Power Outp	ut (dBm)	
5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max.				
СН	Frequency	Tolerance (dBm)		Data Rate (Mb _l	ps)	
011	(MHz)		CH0	CH1	CH0 + CH1	
36	5180	14	6.78	8.82	10.93	
40	5200	14	7.62	9.06	11.41	
44	5220	14	7.58	9.16	11.45	
48	5240	14	7.78	8.82	11.34	
52	5260	14	9.38	10.48	12.98	
56	5280	14	9.42	9.72	12.58	
60	5300	14	9.62	10.06	12.86	
64	5320	14	7.82	7.53	10.69	
100	5500	14	7.96	6.95	10.49	
104	5520	14	10.71	9.82	13.30	
108	5540	14	10.77	9.83	13.34	
112	5560	14	10.62	9.81	13.24	
116	5580	14	10.16	9.78	12.98	
120	5600	14	10.06	9.77	12.93	
124	5620	14	9.82	10.41	13.14	
128	5640	14	10.17	10.31	13.25	
132	5660	14	10.08	10.78	13.45	
136	5680	14	10.16	10.91	13.56	
140	5700	14	7.52	8.12	10.84	
149	5745	14	10.26	10.92	13.61	
153	5765	14	10.01	10.82	13.44	
157	5785	14	9.92	10.78	13.38	
161	5805	14	9.97	10.62	13.32	
165	5825	14	9.92	10.51	13.24	
_						

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MIMO(CHO + CH1)

WIIWO (CHO + CH I)						
11 n(40M)		Average Power Output (dRm)				
.3/5.6/5.8G	<u> </u>	AVCIO	Average Power Output (ubill)			
Frequency			Data Rate (Mb	ps)		
(MHz)	· · ·	CH0	CH1	CH0 + CH1		
5190	10	6.16	7.67	9.99		
5230	14	8.55	9.63	12.13		
5270	14	9.21	10.44	12.88		
5310	14	7.82	7.86	10.85		
5510	14	8.62	7.53	11.12		
5550	14	10.32	9.97	13.16		
5590	14	10.18	10.02	13.11		
5630	14	9.97	10.07	13.03		
5670	14	10.42	10.56	13.50		
5710	14	10.44	10.62	13.54		
5755	14	10.55	10.71	13.64		
5795	14	10.15	10.89	13.55		
	11 n(40M) .3/5.6/5.8G Frequency (MHz) 5190 5230 5270 5310 5510 5550 5590 5630 5670 5710 5755	11 n(40M) .3/5.6/5.8G Frequency (MHz) 5190 10 5230 14 5270 14 5310 14 5510 14 5550 14 5590 14 5630 14 5670 14 5710 14 5755 14	11 n(40M) .3/5.6/5.8G Max. Rated Avg. Power + Max. Tolerance (dBm) (MHz) 5190 10 6.16 5230 14 8.55 5270 14 9.21 5310 14 7.82 5510 14 8.62 5550 14 10.32 5590 14 10.18 5630 14 9.97 5670 14 10.42 5710 14 10.55	11 n(40M) 3/5.6/5.8G Max. Rated Avg. Power + Max. Tolerance (dBm) CH0 CH1		

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MINTO (CLIO . CLIA)

MIMO (CHO + CH1) 802.11 ac(20M)						
5.2/5.3/5.6/5.8G Max. Rated Avg.		Average Power Output (dBm)				
Frequency		Power + Max.		Data Rate (Mbps)		
СН	(MHz)	Tolerance (abin)	CH0	CH1	CH0 + CH1	
36	5180	14	7.53	9.03	11.35	
40	5200	14	7.92	9.38	11.72	
44	5220	14	7.95	9.26	11.66	
48	5240	14	8.02	9.11	11.61	
52	5260	14	10.19	10.38	13.30	
56	5280	14	10.18	10.25	13.23	
60	5300	14	10.26	9.96	13.12	
64	5320	14	8.36	7.92	11.16	
100	5500	14	8.13	7.05	10.63	
104	5520	14	10.76	9.98	13.40	
108	5540	14	10.82	10.02	13.45	
112	5560	14	10.62	10.36	13.50	
116	5580	14	10.19	9.78	13.00	
120	5600	14	10.04	9.86	12.96	
124	5620	14	10.36	10.42	13.40	
128	5640	14	9.78	9.88	12.84	
132	5660	14	10.39	10.82	13.62	
136	5680	14	10.41	10.62	13.53	
140	5700	14	7.53	8.39	10.99	
144	5720	14	9.28	10.00	12.67	
149	5745	14	10.31	11.19	13.78	
153	5765	14	10.36	11.11	13.76	
157	5785	14	9.62	10.44	13.06	
161	5805	14	10.25	11.01	13.66	
165	5825	14	10.11	10.82	13.49	

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MIMO(CHO + CH1)

MIMO (CHO + CH I)						
802.11 ac(40M) 5.2/5.3/5.6/5.8G			Average Power Output (dBm)			
		Max. Rated Avg. Power + Max.	Avcia	ge i ower outpe	at (dbiii)	
СН	Frequency			Data Rate (Mbp	os)	
СП	(MHz)		CH0	CH1	CH0 + CH1	
38	5190	10	5.88	7.35	9.69	
46	5230	14	9.42	9.91	12.68	
54	5270	14	10.06	10.25	13.17	
62	5310	14	8.31	8.08	11.21	
102	5510	14	8.97	8.06	11.55	
110	5550	14	10.62	9.71	13.20	
118	5590	14	9.97	9.74	12.87	
126	5630	14	10.04	10.21	13.14	
134	5670	14	10.08	10.82	13.48	
142	5710	14	10.41	10.75	13.59	
151	5755	14	9.78	10.67	13.26	
159	5795	14	10.18	11.02	13.63	

802.11 ac(80M)			Average Power Output (dBm)		
5.2/5	.3/5.6/5.8G	Max. Rated Avg. Power + Max.	717014	go i omoi ouipi	at (a.b.1.1)
CH Frequency		Tolerance (dBm)	Data Rate (Mbps)		
CIT	(MHz)		CH0	CH1	CH0 + CH1
42	5210	10	6.82	7.03	9.94
58	5290	13	8.05	8.03	11.05
106	5530	13	7.71	6.83	10.30
122	5610	14	10.58	10.55	13.58
138	5690	14	10.34	10.61	13.49
155	5775	14	9.76	10.86	13.36

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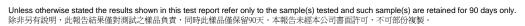
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#. Transceiver conducted power table:

Frequency (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
2402	19	17.33
2441	19	18.67
2480	19	18.95



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#. Bluetooth conducted power table:

". Blactooth conducted power table.						
Frequency	Data	Max. Rated Avg. Power + Max.	Avg.			
(MHz)	Rate	Tolerance (dBm)	dBm	mW		
2402	1	6	4.72	2.965		
2441	1	6	5.09	3.228		
2480	1	6	5.25	3.350		
2402	2	3	1.43	1.390		
2441	2	3	1.79	1.510		
2480	2	3	2.25	1.679		
2402	3	2	0.64	1.159		
2441	3	2	0.93	1.239		
2480	3	2	1.17	1.309		

Frequency	Max. Rated Avg. Power + Max.	Avg. (dBm)
(MHz)	Tolerance (dBm)	BT4.0
2402	4	2.04
2442	4	2.87
2480	4	3.08

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1.4 Test Environment

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

1.5 Operation Description

 WWAN (GPRS/EDGE/WCDMA/HSDPA/HSPA/CDMA 1xRTT/CDMA EVDO rev.0 & rev.A/LTE):

The EUT is controlled by using Radio Communication Tester(R&S CMU200 and Anritsu MT8820C), 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_12mm without power reduction.

Configuration 3: Right/left/bottom sides_Omm without power reduction. (SAR measurement for right/left/bottom sides can be excluded based on KDB447498D01. Since the simultaneous transmission needs to be considered, we do the SAR test for these sides. For LTE, we choose the maximum channel bandwidth/RB configuration/modulation with highest specified power to do SAR measurement for these sides to be the worst cases.)

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
CDMA BC10	YES

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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 the following configurations:

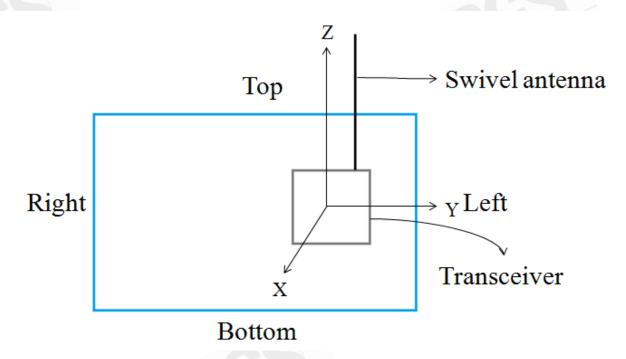
Configurations: Back/top/right/bottom/Left sides_0mm.

3. Transceiver with swivel antenna (2.4GHz)

Use chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT was tested in the following configurations accepted by FCC via KDB inquiry (tracking number: 928161):

Configuration 1: Backside_0 & 5mm at 0/45/90 degree

Configuration 2: Left/right/bottom/top sides_0mm at 0/45/90 degree



Back view of the tablet with transceiver attached

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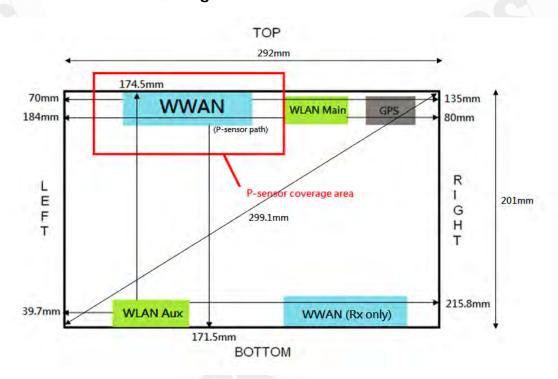
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Joint 2	0 de	gree	45 des	gree(-Y dire	ection)	90 degree(-Y direction)			
	backside	left_0	backside	left_0		backside	left_0		
	0&5 mm	right_0	0&5 mm	right_0		0&5 mm	right_0		
		bottom_0		bottom_0			bottom_0		
							top_0		
			45 deg	ree(+Y dire	ection)	90 deg	ree(+Y dire	ection)	
			backside			backside	700		
			0&5 mm	right_0		0&5 mm	right_0		
				bottom_0			bottom_0		
							top_0		
			45 deg	ree(+X dire	ection)	90 deg	ree(+X dire	ection)	
				left_0			left_0		
				right_0			right_0		
				bottom_0			bottom_0		
							top_0		

Test configurations for this transceiver



Antenna position plot(front view)

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

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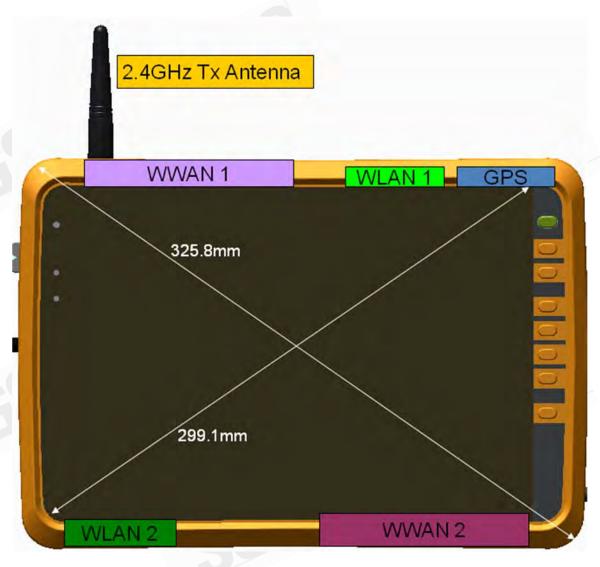
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Front view of the tablet with transceiver attached

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Note:

The test configuration for standalone tablet

1. On the backside of tablet, the left and right rubber corners are removed to make WWAN/WLAN antennas against the phantom, besides, unloading the cover of GPS bumper and make it to be flat so as to let WLAN1 against the phantom. This configuration is accepted by FCC via KDB inquiry.(tracking number: 928161)

The test configuration for tablet + transceiver with swivel antenna

- 2. The proposed test configurations had been addressed in **KDB inquiry.(tracking number: 928161)** and accepted by FCC. The test configuration is considered for joint 2 since 90 degree for joint 2 make the phantom and swivel antenna in smallest distance for top side. Besides, we evaluate all the surfaces except some antenna angles blocked positioning since we need to consider the simultaneous transmission condition. (WWAN + WLAN + Transceiver)
- 3. SAR test for GPRS was performed on the maximum sourced-based time-averaged power.
- **4.** The SAR measurement is not required for HSDPA/HSPA/HSPA+ since its maximum output power is less than ½ dB higher than RMC without HSDPA/HSPA+.
- **5.** 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.
- **6.** 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.)
- 7. 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

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

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

- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are \leq 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be
- 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 > 1/2 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
 - For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > 1/2 dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is >
 - The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

802.11b DSSS SAR Test Requirements:

- **8.** SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- **9.** When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

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802.11g/n OFDM SAR Test Exclusion Requirements:

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

Initial Test Configuration:

- 11. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency
- 12. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- **13.** For WLAN Main antenna, 5.2G ac(20), 5.3G ac(20), 5.6G a/ac(20)/ac(80), 5.8G ac(80) are chosen to be the initial test configurations.
- **14.** For WLAN Main antenna, since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is < 1.2 W/kg, SAR is not required for that subsequent test configuration.
- **15.** For WLAN Aux antenna, 5.2G a, 5.3G a, 5.6G a/n(40)/ac(80), 5.8G ac(80) are chosen to be the initial test configurations.
- **16.** For WLAN Aux antenna, 5.3G n(20)/ac(20)/n(40)/ac(40), 5.6G n(20)/ac(20) are chosen to be the subsequent test configurations since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is > 1.2 W/kg.
- 17. SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2
- 18. BT and WLAN Aux use the same antenna path and Bluetooth may transmit simultaneously with WLAN Main.
- 19. BT SAR measurement for back/top/right/left/bottom sides can be excluded based on KDB447498D01. Since the simultaneous transmission needs to be considered, we do the BT SAR test for these sides. We choose the highest specified BT power to do SAR measurement for these sides to be the worst cases.

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20. For 2.4/5.2/5.3/5.6/5.8GHz 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 to exclude the SAR measurement for 802.11n/ac MIMO.

21. Based on KDB447498D01,

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

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

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(fine)](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),

			Top side			R	ight side		Left side		
Mode	Maximum power(dBm)	Maximum power(mW)	Ant. to surface (mm)	Exclusion threshold	Require SAR testing?	Ant. to surface (mm)	over 200mm	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold	I SAR I
ВТ	6	3.981	174.5	1245.125	NO	216	yes	NO	39.7	0.158	NO
			Bottom side			В	ack side				
Mode	Maximum power(dBm)	Maximum power(mW)	Ant. to surface (mm)	Exclusion threshold	Require SAR testing?	Ant. to surface (mm)	Exclusion threshol d	Require SAR testing?			
ВТ	6	3.981	less than	1.254	NO	less than	1.254	NO			

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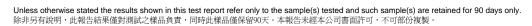
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				Top side			Right side		Left side			
Mode	Max. tune-up power(dBm)	Max. tune-up power(mW)	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	
GPRS850 class10	32.9	1949.845	less than 5	359.280	YES	135	516.915	NO	70	149.101	NO	
GPRS1900 class10	29	794.328	less than 5	219.545	YES	135	871.955	NO	70	221.955	NO	
WCDMA B2	23	199.526	less than 5	55.115	YES	135	855.512	NO	70	205.512	NO	
WCDMA B4	23	199.526	less than 5	52.829	YES	135	855.283	NO	70	205.283	NO	
WCDMA B5	23	199.526	less than 5	36.717	YES	135	483.412	NO	70	116.552	NO	
Cellular BC0 1xEVDO	23.5	223.872	less than 5	41.239	YES	135	484.833	NO	70	117.232	NO	
Cellular BC1 1xEVDO	24	251.189	less than 5	69.407	YES	135	856.941	NO	70	206.941	NO	
Cellular BC10 1xEVDO	23.5	223.872	less than 5	40.622	YES	135	470.485	NO	70	113.809	NO	
LTE Band 2	23	199.526	less than 5	55.150	YES	135	855.515	NO	70	205.515	NO	
LTE Band 4	22.5	223.872	less than 5	47.116	YES	135	854.712	NO	70	204.712	NO	
LTE Band 5	22.5	177.828	less than 5	32.771	YES	135	484.377	NO	70	116.477	NO	
LTE Band 13	22	158.489	less than 5	28.120	YES	135	448.779	NO	70	107.745	NO	
LTE Band 17	22.5	177.828	less than 5	30.094	YES	135	408.743	NO	70	98.476	NO	
LTE Band 25	23	199.526	less than 5	55.222	YES	135	855.522	NO	70	205.522	NO	



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				Bottom side		Back side			
Mode	Max. tune-up power(dBm)	Max. tune-up power(mW)	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold (mW)	Require SAR testing?	
GPRS850 class10	32.9	1949.845	171.5	723.456	NO	less than 5	359.280	YES	
GPRS1900 class10	29	794.328	171.5	1236.955	NO	less than 5	219.545	YES	
WCDMA B2	23	199.526	171.5	1220.512	NO	less than 5	55.115	YES	
WCDMA B4	23	199.526	171.5	1220.283	NO	less than 5	52.829	YES	
WCDMA B5	23	199.526	171.5	689.418	NO	less than 5	36.717	YES	
Cellular BC0 1xEVDO	23.5	223.872	171.5	691.255	NO	less than 5	41.239	YES	
Cellular BC1 1xEVDO	24	251.189	171.5	1221.941	NO	less than 5	69.407	YES	
Cellular BC10 1xEVDO	23.5	223.872	171.5	670.773	NO	less than 5	40.622	YES	
LTE Band 2	23	199.526	171.5	1220.515	NO	less than 5	55.150	YES	
LTE Band 4	22.5	223.872	171.5	1219.712	NO	less than 5	47.116	YES	
LTE Band 5	22.5	177.828	171.5	690.967	NO	less than 5	32.771	YES	
LTE Band 13	22	158.489	171.5	640.282	NO	less than 5	28.120	YES	
LTE Band 17	22.5	177.828	171.5	582.969	NO	less than 5	30.094	YES	
LTE Band 25	23	199.526	171.5	1220.522	NO	less than 5	55.222	YES	
			_						

- **22.** According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is \leq 0.8 W/kg, when the transmission band is \leq 100 MHz.
- 23. 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)
- **24.** There is an optional battery, and we do the worst case check in each band to make sure the device installed the optional battery can comply with the SAR limit.

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25. For the tablet with transceiver attached, we do the worst cases check in each band to make sure the device attached the transceiver can comply with the SAR limit. (Worst cases SAR check is not required for the backside with transceiver attached because the transceiver enlarge the distance between the phantom and WLAN/WWAN antennas.)

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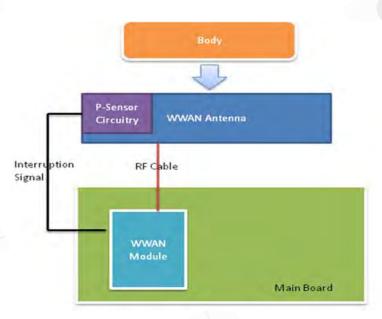
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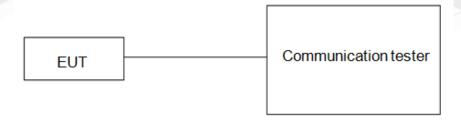
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1.6 Proximity sensor operation description

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 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 \pm 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.
- 8) To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.
- 9) For back side, the trigger distance of proximity sensor is 26mm.
- 10) For top side, the trigger distance of proximity sensor is 14mm, and we perform the 1.6.3 tilt angle testing in next step.

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1.6.3 Tilt angle testing

Test procedure:

- 1) The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.6.2 by rotating the tablet around the edge next to the phantom in \leq 10 deg increments until the tablet is +/-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 14-1=13mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(13-1=12mm) 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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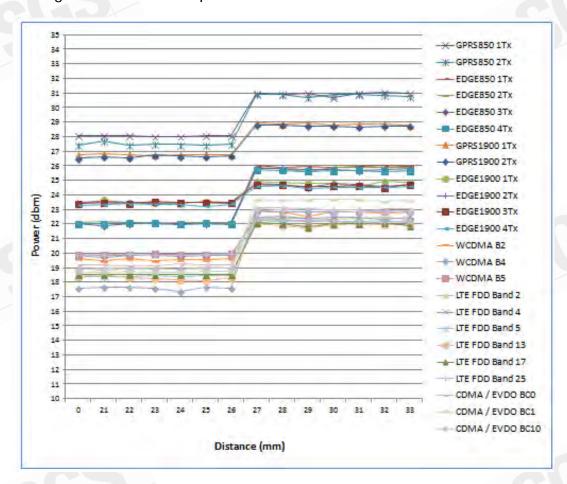
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1.6.5 Results

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

Back side

Moving device toward the phantom



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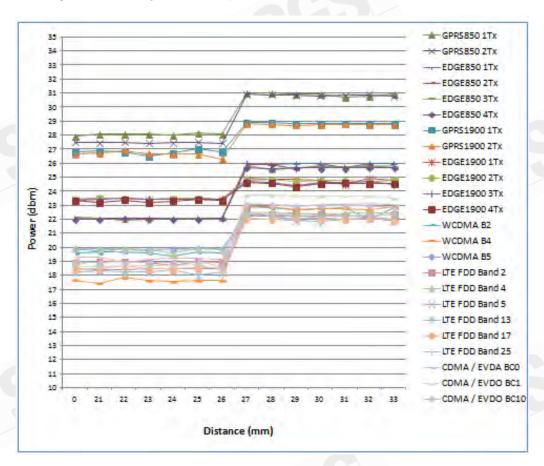
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Moving device away from the phantom



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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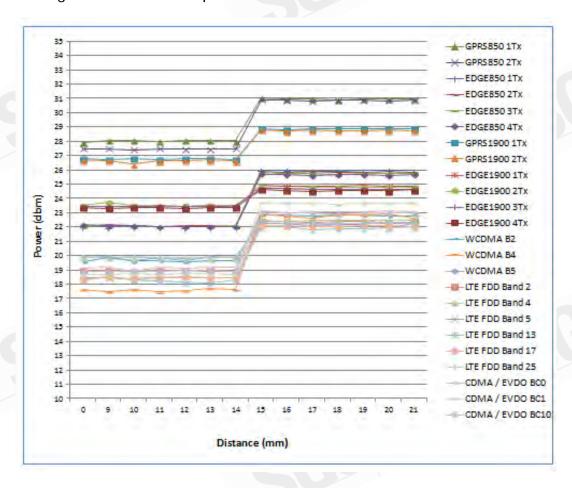
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Top side

Moving device toward the phantom



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Moving device away from the phantom

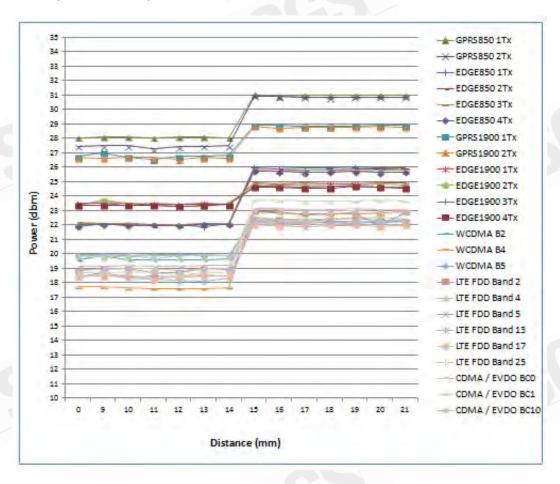


Table 1.6.5 Tilt angle test results for top side

P-sensor	-50	-45	-40	-30	-20	-10	0	10	20	30	40	45	50
ON/OFF	deg												
14mm	ON												

During the tilt angle testing for top side, the sensor is not released in 14mm, so 14-1=13mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(13-1=12mm) should be used in the SAR measurements for top side.

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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.
- 4. The optional battery and transceiver doesn't influence the p-sensor triggering distance after the verification.
- 5. Attaching or unloading the left/right rubber/the cover of GPS bumper doesn't influence the p-sensor triggering distance after the verification.

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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.

Table 1-1: 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			
CDMA BC10	YES			
LTE B2/4/5/13/17/25	YES			
WLAN	NO			
BT	NO			

Table 1-2: The default maximum power when p-sensor failure or malfunction

Technology / Band	Mode	Default Maximum Power (dBm)
GPRS 850	Class 8	28.5
GFR3 650	Class 10	28.5
	Class 8	22.5
EDOE 050	Class 10	22.5
EDGE 850	Class 11	22.5
	Class 12	22.5
CDDC 1000	Class 8	27
GPRS 1900	Class 10	27
	Class 8	23.5
EDOE 4000	Class 10	23.5
EDGE 1900	Class 11	23.5
	Class 12	23.5

Technology / Band	Mode	Default Maximum Power (dBm)
UMTS B2	RMC 12.2K data	20

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	HSDPA case 1	20
	HSDPA case 2	20
	HSDPA case 3	20
	HSDPA case 4	20
	HSUPA case 1	20
	HSUPA case 2	20
	HSUPA case 3	20
	HSUPA case 4	20
	HSUPA case 5	20
	RMC 12.2K data	19
	HSDPA case 1	19
	HSDPA case 2	19
	HSDPA case 3	19
LINATO D.4	HSDPA case 4	19
UMTS B4	HSUPA case 1	19
	HSUPA case 2	19
	HSUPA case 3	19
	HSUPA case 4	19
	HSUPA case 5	19
	RMC 12.2K data	20
	HSDPA case 1	20
	HSDPA case 2	20
	HSDPA case 3	20
LIMTO DE	HSDPA case 4	20
UMTS B5	HSUPA case 1	20
	HSUPA case 2	20
	HSUPA case 3	20
	HSUPA case 4	20
	HSUPA case 5	20

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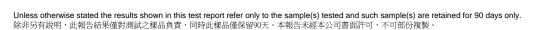
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Technology / Band	Mode	Default Maximum Power (dBm)
CDMA BC0	All	20
CDMA BC1	All	20
CDMA BC10	All	20
LTE B2	All	20
LTE B4	All	20
LTE B5	All	20
LTE B13	All	20
LTE B17	All	20
LTE B25	All	20



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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.

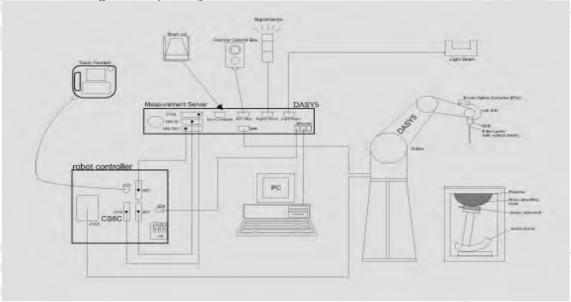


Fig. a The block diagram of SAR system

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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

EV2DA4 F-I IGIC	
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: \pm 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

SAM PHANTOM	1 V4.0C	
Construction	The shell corresponds to the specific Anthropomorphic Mannequin (SAM) and IEC 62209. It enables the dosimetric evaluation usage as well as body mounted usacover prevents evaporation of the liphantom allow the complete setup positions and measurement grids by with the robot.	phantom defined in IEEE 1528 of left and right hand phone age at the flat phantom region. A quid. Reference markings on the of all predefined phantom
Shell Thickness	2 ± 0.2 mm	
Filling Volume Dimensions	Approx. 25 liters 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
		201100 1101001

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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 750/835/1750/1900/2450/5200/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the 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.

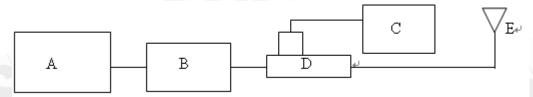


Fig. b The block diagram of system verification

- A. Signal generator
- B. Amplifier
- C. Power meter
- D. Dual directional coupling
- E. Reference dipole antenna



Photograph of the dipole Antenna

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date	
D750V2	1015	750	Body	8.75	2.28	9.12	4.23%	Jun. 16, 2015	
D835V2	4d063	835	Body	9.35	2.35	9.4	0.53%	Jun. 12, 2015	
D033V2	40003	033	Body	9.35	2.35	9.4	0.53%	Jun. 15, 2015	
D1750V2	1008	1750	Body	37.5	9.36	37.44	-0.16%	Jun. 17, 2015	
D1900V2	5d027	1900	Body	39.3	10.1	40.4	2.80%	Jun. 11, 2015	
D1900V2			Body	39.3	10.1	40.4	2.80%	Jun. 18, 2015	
D2450V2	727	2450	Body	51	13.5	54	5.88%	Jun. 01, 2015	
D2430V2	121	2430	Body	51	12.7	50.8	-0.39%	Jun. 05, 2015	
			5200	Body	73.5	7.47	74.7	1.63%	Jun. 02, 2015
D5GHzV2	1023	5300	Body	74.6	8.13	81.3	8.98%	Jun. 03, 2015	
DOGHZVZ	1023	5600	Body	77.9	7.32	73.2	-6.03%	Jun. 04, 2015	
		5800	Body	75.6	8.04	80.4	6.35%	Jun. 01, 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 \pm 5 mm (Frequency \leq 3G) or \geq 10 cm \pm 5 mm (Frequency >3G) during all tests. (Fig. 2)

Tissue	Measurement	Measured Frequency	Target Dielectric	Target Conductivi		Measured Conductivity,	% dev εr	% dev σ
Туре	Date	(MHz)	Constant,	ty, a (S/m)	Constant,	σ (S/m)		
		1850.2	53.300	1.520	52.559	1.477	1.39%	2.83%
Jı		1851.25	53.300	1.520	52.554	1.478	1.40%	2.76%
		1852.4	53.300	1.520	52.546	1.479	1.41%	2.70%
	lum 11 2015	1880	53.300	1.520	52.356	1.508	1.77%	0.79%
	Jun. 11, 2015	1900	53.300	1.520	52.226	1.529	2.02%	-0.59%
		1907.6	53.300	1.520	52.188	1.537	2.09%	-1.12%
		1908.75	53.300	1.520	52.176	1.539	2.11%	-1.25%
		1909.8	53.300	1.520	52.167	1.540	2.13%	-1.32%
		824.2	55.242	0.969	54.389	0.944	1.54%	2.58%
		824.7	55.240	0.969	54.385	0.944	1.55%	2.60%
	À	826.4	55.234	0.969	54.372	0.946	1.56%	2.37%
		835	55.200	0.970	54.344	0.955	1.55%	1.55%
	Jun. 12, 2015	836.52	55.195	0.972	54.333	0.956	1.56%	1.63%
		836.6	55.195	0.972	54.333	0.956	1.56%	1.65%
		846.6	55.164	0.984	54.315	0.966	1.54%	1.83%
		848.31	55.159	0.986	54.265	0.969	1.62%	1.76%
		848.8	55.158	0.987	54.261	0.970	1.63%	1.72%
		817.9	55.253	0.949	54.067	0.943	2.15%	0.63%
		820	55.246	0.952	54.051	0.947	2.16%	0.53%
		823.1	55.237	0.955	54.033	0.950	2.18%	0.52%
Body	Jun. 15, 2015	829	55.223	0.970	54.064	0.957	2.10%	1.29%
		835	55.200	0.970	54.035	0.963	2.11%	0.72%
		836.5	55.194	0.970	54.017	0.965	2.13%	0.53%
		844	55.172	0.981	53.996	0.973	2.13%	0.82%
		709	55.691	0.960	54.312	0.922	2.48%	3.98%
	\	710	55.687	0.960	54.301	0.923	2.49%	3.88%
	Jun. 16, 2015	711	55.683	0.960	54.294	0.924	2.49%	3.78%
		750	55.531	0.963	54.188	0.964	2.42%	-0.06%
		782	55.406	0.966	53.973	0.993	2.59%	-2.81%
		1712.4	53.531	1.465	52.410	1.431	2.09%	2.32%
		1720	53.511	1.469	52.394	1.440	2.09%	2.01%
		1732.4	53.478	1.477	52.305	1.452	2.19%	1.69%
	Jun. 17, 2015	1732.5	53.478	1.477	52.304	1.452	2.19%	1.69%
		1745	53.445	1.485	52.257	1.464	2.22%	1.43%
		1750	53.432	1.488	52.225	1.470	2.26%	1.21%
		1752.6	53.425	1.490	52.215	1.473	2.26%	1.14%
		1860	53.300	1.520	52.890	1.493	0.77%	1.78%
		1880	53.300	1.520	52.309	1.514	1.86%	0.39%
	Jun. 18, 2015	1882.5	53.300	1.520	52.269	1.517	1.93%	0.20%
		1900	53.300	1.520	52.126	1.536	2.20%	-1.05%
		1905	53.300	1.520	52.080	1.541	2.29%	-1.38%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant,	Target Conductivity, σ (S/m)	Measured Dielectric Constant,	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
	June. 1, 2015	2450	52.700	1.950	51.219	2.035	2.81%	-4.36%
	June. 1, 2015	2462	52.685	1.967	51.185	2.053	2.85%	-4.37%
		2402	52.764	1.904	51.41	1.974	2.57%	-3.67%
26		2441	52.712	1.941	51.234	2.024	2.80%	-4.25%
	June. 5, 2015	2450	52.700	1.950	51.254	2.033	2.74%	-4.26%
		2471	52.673	1.980	51.146	2.059	2.90%	-3.99%
		2480	52.662	1.993	51.112	2.072	2.94%	-3.99%
		5200	49.014	5.299	47.895	5.470	2.28%	-3.22%
	June. 2, 2015	5220	48.987	5.323	47.860	5.496	2.30%	-3.26%
		5240	48.960	5.346	47.807	5.521	2.35%	-3.27%
		5260	48.933	5.369	47.728	5.552	2.46%	-3.40%
		5270	48.919	5.381	47.696	5.567	2.50%	-3.46%
	luna 2 2015	5280	48.906	5.393	47.659	5.583	2.55%	-3.53%
Body	June. 3, 2015	5300	48.879	5.416	47.584	5.610	2.65%	-3.58%
Doug		5310	48.865	5.428	47.554	5.618	2.68%	-3.51%
		5320	48.851	5.439	47.518	5.637	2.73%	-3.63%
		5520	48.580	5.673	46.795	5.910	3.67%	-4.18%
		5550	48.539	5.708	46.728	5.942	3.73%	-4.10%
		5600	48.471	5.766	46.587	6.005	3.89%	-4.14%
		5610	48.458	5.778	46.537	5.993	3.96%	-3.72%
	June. 4, 2015	5630	48.431	5.801	46.474	6.055	4.04%	-4.37%
	Julio: 4, 2013	5670	48.376	5.848	46.380	6.017	4.13%	-2.89%
		5680	48.363	5.860	46.359	6.021	4.14%	-2.75%
		5690	48.349	5.872	46.330	6.021	4.18%	-2.55%
		5700	48.336	5.883	46.297	6.137	4.22%	-4.31%
		5710	48.322	5.895	46.241	6.041	4.31%	-2.48%
	June. 1, 2015	5775	48.234	5.971	46.085	6.2	4.46%	-3.84%
	Julie. 1, 2013	5800	48.200	6.000	46.008	6.210	4.55%	-3.50%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the body tissue simulating liquid:

The composition of the body tissue simulating liquid.										
F			Ingredient							
Frequency (MHz)	Mode	DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	Total amount		
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.

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- 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 p), 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 $\pm 5\%$ (RSS) when the same liquid is used for the calibration and for actual measurements and $\pm 7-9\%$ (RSS) when not, which is in good agreement with the estimates given in [2].

1.12.2 Calibration with Analytical Fields

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

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

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

- 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).
- 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.
- 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.

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2. Summary of Results

GPRS 850 MHz (without power reduction)

GPRS 850 WHZ (Without power reduction)													
Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/ Measured	g ˈkg)	Plot page			
EFO	Back side	25mm	190	836.6	32.9	30.90	58.49%	0.193	0.306	-			
	Top side	12mm	128	824.2	32.9	30.90	58.49%	0.321	0.509	-			
	Top side	12mm	190	836.6	32.9	30.90	58.49%	0.327	0.518	-			
0000 050	Top side with optional	12mm	190	836.6	32.9	30.90	58.49%	0.321	0.509	-			
GPRS 850 (1D2UP)	Top side with transceiver	12mm	190	836.6	32.9	30.90	58.49%	0.309	0.490	-			
	Top side	12mm	251	848.8	32.9	30.90	58.49%	0.323	0.512	-			
	Bottom side	0mm	190	836.6	32.9	30.90	58.49%	0.024	0.038	-			
	Right side	0mm	190	836.6	32.9	30.90	58.49%	0.012	0.019	-			
	Left side	0mm	190	836.6	32.9	30.90	58.49%	0.014	0.022	-			

GPRS 850 MHz (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	AVg. Power	Scaling	Averaged 19 (W/ Measured	g kg)	Plot page
GPRS 850	Back side	0mm	190	836.6	27.5	27.50	0.00%	0.493	0.493	321
(1D2UP)	Top side	0mm	190	836.6	27.5	27.50	0.00%	0.202	0.202	-

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GPRS 1900 MHz (without power reduction)

GPRS 1900 MHz (Without power reduction)												
Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/	g	Plot page		
	Back side	25mm	810	1909.8	29	28.80	4.71%	0.170	\ 0.178	-		
	Top side	12mm	512	1850.2	29	28.70	7.15%	0.769	0.824	-		
	Top side	12mm	661	1880	29	28.60	9.65%	0.888	0.974	322		
	Top side*	12mm	661	1880	29	28.60	9.65%	0.886	0.971	-		
GPRS 1900	Top side with optional battery	12mm	661	1880	29	28.60	9.65%	0.881	0.966	-		
(1Dn2UP)	Top side with	12mm	661	1880	29	28.60	9.65%	0.887	0.973	-		
	Top side	12mm	810	1909.8	29	28.80	4.71%	0.808	0.846	-		
	Bottom side	0mm	810	1909.8	29	28.80	4.71%	0.035	0.037	-		
	Right side	0mm	810	1909.8	29	28.80	4.71%	0.028	0.029	-		
	Left side	0mm	810	1909.8	29	28.80	4.71%	0.019	0.020	-		

GPRS 1900 MHz (with power reduction)

	Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/	g kg)	Plot page
			()			roioranos (azini)	(dBm)		Measured	Reported	
		Back side	0mm	512	1850.2	27	26.70	7.15%	0.667	0.715	-
	GPRS 1900	Back side	0mm	661	1880	27	26.70	7.15%	0.781	0.837	-
	(1Dn2UP)	Back side	0mm	810	1909.8	27	26.80	4.71%	0.850	0.890	-
L		Top side	0mm	810	1909.8	27	26.80	4.71%	0.694	0.727	-

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

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WCDMA Band II (without power reduction)

WCDIVIA D	alia II (witi	ilout p	OWEI	Teduc	tion)					
Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	25mm	9538	1907.6	23	22.86	3.28%	0.203	0.210	-
	Top side	12mm	9262	1852.4	23	22.76	5.68%	0.930	0.983	-
	Top side	12mm	9400	1880	23	22.79	4.95%	0.978	1.026	-
	Top side	12mm	9538	1907.6	23	22.86	3.28%	1.000	1.033	-
	Top side*	12mm	9538	1907.6	23	22.86	3.28%	0.997	1.030	-
WCDMA Band 2	Top side with optional battery	12mm	9538	1907.6	23	22.86	3.28%	0.901	0.931	-
	Top side with transceiver	12mm	9538	1907.6	23	22.86	3.28%	1.010	1.043	323
	Bottom side	0mm	9538	1907.6	23	22.86	3.28%	0.042	0.043	-
	Right side	0mm	9538	1907.6	23	22.86	3.28%	0.019	0.020	-
	Left side	0mm	9538	1907.6	23	22.86	3.28%	0.0082	0.008	-

WCDMA Band II (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	0mm	9262	1852.4	20	19.61	9.40%	0.707	0.773	-
WCDMA	Back side	0mm	9400	1880	20	19.63	8.89%	0.801	0.872	-
Band 2	Back side	0mm	9538	1907.6	20	19.67	7.89%	0.872	0.941	-
	Top side	0mm	9538	1907.6	20	19.67	7.89%	0.615	0.664	-

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

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WCDMA Band IV (without power reduction)

VVCDIVIAL	sanu iv (wi	tilout p	JUME	redu	iction)					
Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	25mm	1412	1732.4	23	22.88	2.80%	0.217	0.223	-
	Top side	12mm	1312	1712.4	23	22.79	4.95%	1.270	1.333	324
	Top side*	12mm	1312	1712.4	23	22.79	4.95%	1.250	1.312	-
	Top side with optional	12mm	1312	1712.4	23	22.79	4.95%	1.240	1.301	-
WCDMA Band 4	Top side with transceiver	12mm	1312	1712.4	23	22.79	4.95%	1.240	1.301	-
Jana .	Top side	12mm	1412	1732.4	23	22.88	2.80%	1.190	1.223	-
	Top side	12mm	1513	1752.6	23	22.68	7.65%	1.030	1.109	-
	Bottom side	0mm	1412	1732.4	23	22.88	2.80%	0.031	0.032	-
	Right side	0mm	1412	1732.4	23	22.88	2.80%	0.014	0.014	-
	Left side	0mm	1412	1732.4	23	22.88	2.80%	0.026	0.027	-

WCDMA Band IV (with power reduction)

	TO BINIT BUILD TO (WITTH POWER TO GOOD)												
	Mode	Position	Distanc e	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
L			(mm)			Tolerance (ubin)	(dBm)		Measured	Reported			
		Back side	0mm	1312	1712.4	19	17.62	37.40%	0.687	0.944	-		
		Back side	0mm	1412	1732.4	19	17.67	35.83%	0.675	0.917	-		
	WCDMA	Back side	0mm	1513	1752.6	19	17.61	37.72%	0.627	0.864	-		
	Band 4	Top side	0mm	1312	1712.4	19	17.62	37.40%	0.634	0.871	-		
		Top side	0mm	1412	1732.4	19	17.67	35.83%	0.602	0.818	-		
		Top side	0mm	1513	1752.6	19	17.61	37.72%	0.568	0.782	-		

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

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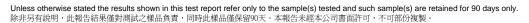
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WCDMA Band V (without power reduction)

_		(
	Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Power	Scaling	Averaged 1 (W/	g	Plot page
			(11111)			Tolerance (abin)	(dBm)		Measured	Reported	
		Back side	25mm	4183	836.6	23	22.27	18.30%	0.139	0.164	-
	MODMA	Top side	12mm	4183	836.6	23	22.27	18.30%	0.217	0.257	-
1	WCDMA Band 5	Bottom side	0mm	4183	836.6	23	22.27	18.30%	0.031	0.037	-
	Daria 5	Right side	0mm	4183	836.6	23	22.27	18.30%	0.0052	0.006	-
		Left side	0mm	4183	836.6	23	22.27	18.30%	0.0084	0.010	-

WCDMA Band V (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/	g	Plot page
		()			(0.2)	(dBm)		Measured	Reported	
	Back side	0mm	4132	826.4	20	19.90	2.33%	0.366	0.375	-
	Back side	0mm	4183	836.6	20	19.96	0.93%	0.374	0.377	325
WCDMA Band 5	Back side with optional battery	0mm	4183	836.6	20	19.96	0.93%	0.121	0.122	-
	Back side	0mm	4233	846.6	20	19.84	3.75%	0.351	0.364	-
	Top side	0mm	4183	836.6	20	19.96	0.93%	0.360	0.363	-



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LTE FDD Band II (without power reduction)

	טם טט	ariu i i	(vviti	iou	power	Leauc								
	Bandwid								Max. Rated	Measure d		Averaged 1g (W		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
				0	Top side	12mm	18700	1860	23	22.32	16.95%	0.911	1.065	-
0				50	Top side	12mm	18900	1880	23	22.40	14.82%	0.986	1.132	-
			1 RB		Back side	25mm	19100	1900	23	22.42	14.29%	0.303	0.346	-
					Top side	12mm	19100	1900	23	22.42	14.29%	0.989	1.130	326
			TIND	99	Top side*	12mm	19100	1900	23	22.42	14.29%	0.987	1.128	-
				77	Bottom side	0mm	19100	1900	23	22.42	14.29%	0.039	0.045	-
					Right side	0mm	19100	1900	23	22.42	14.29%	0.021	0.024	-
LTE	20MHz	QPSK			Left side	0mm	19100	1900	23	22.42	14.29%	0.00937	0.011	-
Band 2	ZOIVII IZ	QI SIK			Back side	25mm	18700	1860	22	21.17	21.06%	0.241	0.292	-
			50 RB	0	Top side	12mm	18700	1860	22	21.17	21.06%	0.705	0.853	-
			30 KB		Top side	12mm	19100	1900	22	21.10	23.03%	0.727	0.894	-
				25	Top side	12mm	18900	1880	22	21.16	21.34%	0.739	0.897	-
					Back side	25mm	18900	1880	22	21.20	20.23%	0.244	0.293	-
			100	RR	Top side	12mm	18700	1860	22	21.18	20.78%	0.701	0.847	-
			100	I LD	Top side	12mm	18900	1880	22	21.20	20.23%	0.726	0.873	-
					Top side	12mm	19100	1900	22	21.19	20.50%	0.714	0.860	-

LTE FDD Band II (with power reduction)

	J D Du.	·		•			•		Max. Rated	Measure d		Averaged 1g (V	SAR over V/kg)	
Mode	Bandwidth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Back side	0mm	18700	1860	20	18.95	27.35%	0.816	1.039	-
				50	Back side	0mm	18900	1880	20	18.92	28.23%	0.868	1.113	-
				30	Top side	0mm	18700	1860	20	18.95	27.35%	0.711	0.905	-
			1 RB		Top side	0mm	18900	1880	20	18.92	28.23%	0.705	0.904	-
			IKB		Back side	0mm	19100	1900	20	18.99	26.18%	0.937	1.182	-
				99	Back side with optional	0mm	19100	1900	20	18.99	26.18%	0.547	0.690	-
					Top side	0mm	19100	1900	20	18.99	26.18%	0.724	0.914	-
10					Back side	0mm	18700	1860	20	18.86	30.02%	0.754	0.980	-
LTE	20MHz	QPSK		0	Back side	0mm	18900	1880	20	18.74	33.66%	0.731	0.977	-
Band 2	2011112	QI OIK	50 RB	O	Top side	0mm	18700	1860	20	18.86	30.02%	0.655	0.852	-
			30 KB		Top side	0mm	18900	1880	20	18.74	33.66%	0.632	0.845	-
				50	Back side	0mm	19100	1900	20	18.71	34.59%	0.719	0.968	-
				30	Top side	0mm	19100	1900	20	18.71	34.59%	0.621	0.836	-
					Back side	0mm	18700	1860	20	18.75	33.35%	0.770	1.027	-
					Back side	0mm	18900	1880	20	18.76	33.05%	0.825	1.098	-
			100	RB	Back side	0mm	19100	1900	20	18.75	33.35%	0.586	0.781	-
			100	ND	Top side	0mm	18700	1860	20	18.75	33.35%	0.657	0.876	-
					Top side	0mm	18900	1880	20	18.76	33.05%	0.670	0.891	-
					Top side	0mm	19100	1900	20	18.75	33.35%	0.659	0.879	-

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LTE FDD Band IV (without power reduction)

	Dun	410 (vviti	IUU	hower	Caac	tion,							
	Bandwidt								Max. Rated	Measure			SAR over V/kg)	
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance (dRm)	d Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Top side	12mm	20050	1720	22.5	22.17	7.89%	1.280	1.381	327
					Top side*	12mm	20050	1720	22.5	22.17	7.89%	1.230	1.327	-
					Top side with optional battery	12mm	20050	1720	22.5	22.17	7.89%	1.260	1.359	-
				50	Top side with transceiver	12mm	20050	1720	22.5	22.17	7.89%	1.190	1.284	-
					Top side	12mm	20175	1732.5	22.5	22.12	9.14%	1.220	1.332	-
			1 RB		Top side with optional battery	12mm	20175	1732.5	22.5	22.12	9.14%	1.210	1.321	-
					Back side	25mm	20300	1745	22.5	22.49	0.23%	0.209	0.209	-
					Top side	12mm	20300	1745	22.5	22.49	0.23%	0.940	0.942	-
LTE	20MHz	QPSK		99	Bottom side	0mm	20300	1745	22.5	22.49	0.23%	0.031	0.031	-
Band 4					Right side	0mm	20300	1745	22.5	22.49	0.23%	0.012	0.012	-
					Left side	0mm	20300	1745	22.5	22.49	0.23%	0.014	0.014	-
					Back side	25mm	20300	1745	22	21.26	18.58%	0.151	0.179	-
			50	0	Top side	12mm	20175	1732.5	22	21.01	25.60%	0.843	1.059	-
			RB	N.	Top side	12mm	20300	1745	22	21.26	18.58%	0.902	1.070	-
				25	Top side	12mm	20050	1720	22	20.96	27.06%	0.821	1.043	-
					Back side	25mm	20300	1745	22	21.12	22.46%	0.139	0.170	-
			100	RR	Top side	12mm	20050	1720	22	20.98	26.47%	0.779	0.985	-
			100	מאו	Top side	12mm	20175	1732.5	22	20.96	27.06%	0.771	0.980	-
					Top side	12mm	20300	1745	22	21.12	22.46%	0.808	0.989	-

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

LTE FDD Band IV (with power reduction)

									Max. Rated	Measure d			SAR over V/kg)	
Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
				50	Top side	0mm	20175	1732.5	20	19.88	2.80%	0.930	0.956	-
			1 RB		Top side	0mm	20050	1720	20	19.78	5.20%	0.934	0.983	-
	G		IKD	99	Back side	0mm	20300	1745	20	19.89	2.57%	0.777	0.797	-
					Top side	0mm	20300	1745	20	19.89	2.57%	0.849	0.871	-
					Back side	0mm	20300	1745	20	19.68	7.65%	0.683	0.735	-
LTE	20MHz	QPSK	50 RB	0	Top side	0mm	20050	1720	20	19.59	9.90%	0.868	0.954	-
Band 4	ZOWITZ	QI SIX	30 KB		Top side	0mm	20300	1745	20	19.68	7.65%	0.808	0.870	-
				50	Top side	0mm	20175	1732.5	20	19.63	8.89%	0.875	0.953	-
					Back side	0mm	20300	1745	20	19.69	7.40%	0.681	0.731	-
			100	RR	Top side	0mm	20050	1720	20	19.57	10.41%	0.811	0.895	-
			100	IND	Top side	0mm	20175	1732.5	20	19.66	8.14%	0.821	0.888	-
					Top side	0mm	20300	1745	20	19.69	7.40%	0.877	0.942	-

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LTE FDD Band V (without power reduction)

	Bandwidt			•					Max. Rated	Measured			SAR over V/kg)	Plot
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	pag
		\			Back side	25mm	20600	844	22.5	22.24	6.17%	0.108	0.115	-
					Top side	12mm	20600	844	22.5	22.24	6.17%	0.145	0.154	-
			1 RB	49	Bottom side	0mm	20600	844	22.5	22.24	6.17%	0.039	0.041	-
LTE					Right side	0mm	20600	844	22.5	22.24	6.17%	0.011	0.012	-
Band 5	10MHz	QPSK			Left side	0mm	20600	844	22.5	22.24	6.17%	0.019	0.020	-
Dana 3			25 RB	25	Back side	25mm	20450	829	21	20.89	2.57%	0.074	0.076	-
			23 KB	23	Top side	12mm	20450	829	21	20.89	2.57%	0.104	0.107	-
			50	DR	Back side	25mm	20525	836.5	21	20.68	7.65%	0.071	0.076	-
			50	מא	Top side	12mm	20525	836.5	21	20.68	7.65%	0.092	0.099	-

LTE FDD Band V (with power reduction)

	DD Dai	14 6 6	VICII		FITEGUC	.1011)								
	Bandwidt									Measured		U	SAR over V/kg)	Plot
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance	Avg. Power (dBm)	Scaling	Measured	Reported	pag
				0	Back side	0mm	20525	836.5	20	18.33	46.89%	0.327	0.480	-
				25	Back side	0mm	20450	829	20	18.39	44.88%	0.331	0.480	-
			1 DD		Back side	0mm	20600	844	20	18.50	41.25%	0.347	0.490	328
LTE	10MHz	QPSK	1 RB	49	Back side with optional battery	0mm	20600	844	20	18.50	41.25%	0.119	0.168	-
Band 5	TOWNIE	QI SIK			Top side	0mm	20600	844	20	18.50	41.25%	0.166	0.234	-
		25	25 RB	25	Back side	0mm	20450	829	20	18.49	41.58%	0.331	0.469	-
			23 KB	25	Top side	0mm	20450	829	20	18.49	41.58%	0.156	0.221	-
			50	RB	Back side	0mm	20450	829	20	18.29	48.25%	0.301	0.446	-
			50	ΝD	Top side	0mm	20450	829	20	18.29	48.25%	0.142	0.211	-

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

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LTE FDD Band XIII (without power reduction)

			•											
									Max. Rated	Measure d			SAR over V/kg)	
Mode	Bandwidth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance	Avg. Power	Scaling	Measured	Reported	Plot page
					Back side	25mm	23230	782	22	22.00	0.00%	0.190	0.190	-
					Top side	12mm	23230	782	22	22.00	0.00%	0.257	0.257	-
			1 RB	25	Bottom side	0mm	23230	782	22	22.00	0.00%	0.016	0.016	-
LTE					Right side	0mm	23230	782	22	22.00	0.00%	0.0058	0.006	-
Band 13	10MHz	QPSK			Left side	0mm	23230	782	22	22.00	0.00%	0.027	0.027	-
Dana 13			25 RB	12	Back side	25mm	20450	782	21	20.95	1.16%	0.147	0.149	-
			23 KD	12	Top side	12mm	20450	782	21	20.95	1.16%	0.207	0.209	-
			50	RR	Back side	25mm	20525	782	21	20.74	6.17%	0.141	0.150	-
			30	ND	Top side	12mm	20525	782	21	20.74	6.17%	0.199	0.211	-

LTE FDD Band XIII (with power reduction)

	DD Duii		(··· Ի			· · · /							
									Max. Rated	Measure d		Averaged 1g (V	SAR over V/kg)	
Mode	Bandwidth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance	Avg. Power	Scaling	Measured	Reported	Plot page
				0	Back side	0mm	23230	782	20	18.01	58.12%	0.302	0.478	-
					Back side	0mm	23230	782	20	18.33	46.89%	0.340	0.499	329
			1 RB	25	Back side with optional	0mm	23230	782	20	18.33	46.89%	0.117	0.172	-
LTE	10MHz	QPSK			Top side	0mm	23230	782	20	18.33	46.89%	0.204	0.300	-
Band 13	TOWNIZ	QISK		49	Back side	0mm	23230	782	20	18.09	55.24%	0.305	0.473	-
	aliu 13		25	12	Back side	0mm	23230	782	20	18.17	52.41%	0.315	0.480	-
			RB	12	Top side	0mm	23230	782	20	18.17	52.41%	0.193	0.294	-
			50	DR	Back side	0mm	23230	782	20	18.02	57.76%	0.314	0.495	-
			50	ΝD	Top side	0mm	23230	782	20	18.02	57.76%	0.192	0.303	-

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

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LTE FDD Band XVII (without power reduction)

					it power		, ,	/						
	Bandwidt								Max. Rated	Measured		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Back side	25mm	23780	709	22.5	22.09	9.90%	0.161	0.177	-
		1			Top side	12mm	23780	709	22.5	22.09	9.90%	0.310	0.341	-
					Top side with optional hattery	12mm	23780	709	22.5	22.09	9.90%	0.301	0.331	-
			1 RB	25	Top side with transceiver	12mm	23780	709	22.5	22.09	9.90%	0.311	0.342	-
LTE	10MHz	QPSK			Bottom	0mm	23780	709	22.5	22.09	9.90%	0.044	0.048	-
Band 17					Right side	0mm	23780	709	22.5	22.09	9.90%	0.014	0.015	-
					Left side	0mm	23780	709	22.5	22.09	9.90%	0.045	0.049	-
		-	25 RB	25	Back side	25mm	23780	709	21.5	21.07	10.41%	0.129	0.142	-
			20 KD	25	Top side	12mm	23780	709	21.5	21.07	10.41%	0.249	0.275	-
			50	DR	Back side	25mm	23780	709	21.5	20.83	16.68%	0.127	0.148	-
			30	ΝD	Top side	12mm	23780	709	21.5	20.83	16.68%	0.244	0.285	-

LTE FDD Band XVII (with power reduction)

			\		71101 101		- /							
	Bandwidt								Max. Rated	Measured		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Back side	0mm	23780	709	20	18.53	40.28%	0.312	0.438	330
					Back side	0mm	23790	710	20	18.45	42.89%	0.302	0.432	-
			1 RB	25	Back side with optional battery	0mm	23780	709	20	18.53	40.28%	0.307	0.431	-
LTE	10MHz	QPSK			Back side	0mm	23800	711	20	18.38	45.21%	0.289	0.420	-
Band 17	TOWNIZ	QI SIK	\		Top side	0mm	23780	709	20	18.53	40.28%	0.256	0.359	-
			25 RB	12	Back side	0mm	23800	711	20	18.38	45.21%	0.299	0.434	-
			23 KD	12	Top side	0mm	23800	711	20	18.38	45.21%	0.231	0.335	-
			50	DR	Back side	0mm	23800	711	20	18.25	49.62%	0.284	0.425	-
			50	ND	Top side	0mm	23800	711	20	18.25	49.62%	0.222	0.332	-

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LTE FDD Band XXV (without power reduction)

	JU Balik	<i>4</i> /// V	(,,,	ti io	at pow	ci ica	action	<u>''</u>						
										Measured			SAR over V/kg)	
Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Back side	25mm	26590	1905	23	22.37	15.61%	0.283	0.327	-
					Top side	12mm	26140	1860	23	22.25	18.85%	1.040	1.236	331
					Top side	12mm	26365	1882.5	23	22.28	18.03%	0.962	1.135	-
					Top side	12mm	26590	1905	23	22.37	15.61%	1.000	1.156	-
					Top side*	12mm	26140	1860	23	22.25	18.85%	1.020	1.212	-
			1 RB	99	Top side with optional	12mm	26140	1860	23	22.25	18.85%	0.984	1.169	-
					Top side with	12mm	26140	1860	23	22.25	18.85%	0.915	1.087	-
LTE	001411	OPCI			Bottom	0mm	26590	1905	23	22.37	15.61%	0.034	0.039	-
Band 25	20MHz	QPSK			Right side	0mm	26590	1905	23	22.37	15.61%	0.004	0.005	-
					Left side	0mm	26590	1905	23	22.37	15.61%	0.001	0.001	-
				0	Top side	12mm	26140	1860	22	21.11	22.74%	0.769	0.944	-
			50	U	Top side	12mm	26365	1882.5	22	21.02	25.31%	0.796	0.998	-
			RB	50	Back side	25mm	26590	1905	22	21.14	21.90%	0.219	0.267	-
				30	Top side	12mm	26590	1905	22	21.14	21.90%	0.799	0.974	-
				Back side	25mm	26590	1905	22	21.12	22.46%	0.219	0.268	-	
			100) RB	Top side	12mm	26140	1860	22	21.12	22.46%	0.796	0.975	-
			100	, ועט	Top side	12mm	26365	1882.5	22	21.10	23.03%	0.771	0.949	-
					Top side	12mm	26590	1905	22	21.16	21.34%	0.802	0.973	-

LTE FDD Band XXV (with power reduction)

									Max. Rated	Measured			SAR over V/kg)	
Mode	Bandwidth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
				50	Back side	0mm	26140	1860	20	19.81	4.47%	0.814	0.850	-
			1 RB	50	Back side	0mm	26365	1882.5	20	19.72	6.66%	0.838	0.894	-
			IKD	99	Back side	0mm	26590	1905	20	19.93	1.62%	0.931	0.946	-
				99	Top side	0mm	26590	1905	20	19.93	1.62%	0.697	0.708	-
7 00				25	Back side	0mm	26365	1882.5	20	19.50	12.20%	0.830	0.931	-
LTE	20MHz	QPSK	50 RB		Back side	0mm	26140	1860	20	19.63	8.89%	0.783	0.853	-
Band 25	ZUIVII IZ	QF3K	30 KB	50	Back side	0mm	26590	1905	20	19.64	8.64%	0.866	0.941	-
					Top side	0mm	26590	1905	20	19.64	8.64%	0.665	0.722	-
					Back side	0mm	26140	1860	20	19.59	9.90%	0.766	0.842	-
			100	DD	Back side	0mm	26365	1860	20	19.47	12.98%	0.818	0.924	-
			100	ΝD	Back side	0mm	26590	1882.5	20	19.61	9.40%	0.864	0.945	-
					Top side	0mm	26590	1905	20	19.61	9.40%	0.667	0.730	-

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

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CDMA / EVDO (BC0) (without power reduction)

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	Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	0	SAR over 1g /kg)	Plot page
					()		(12)	Tolerance (dBm)	(dBm)		Measured	Reported	page
				Back side	25mm	384	836.52	23.5	23.11	9.40%	0.173	0.189	-
	CDMA		Davi O	Top side	12mm	384	836.52	23.5	23.11	9.40%	0.224	0.245	-
	CDMA BC 0	EVDO	Rev. 0 Subtype 0/1	Bottom side	0mm	384	836.52	23.5	23.11	9.40%	0.032	0.035	-
4	ВСО		Subtype of 1	Right side	0mm	384	836.52	23.5	23.11	9.40%	0.0042	0.005	-
				Left side	0mm	384	836.52	23.5	23.11	9.40%	0.0031	0.003	-

CDMA / EVDO (BCO) (with power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	3	AR over 1g 'kg)	Plot page
				(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)		Measured	Reported	page
			Back side	0mm	1013	824.7	20	19.23	19.40%	0.291	0.347	-
CDMA	EVDO	Rev. 0	Back side	0mm	384	836.52	20	19.20	20.23%	0.307	0.369	332
BC 0	LVDO	Subtype 0/1	Back side	0mm	777	848.31	20	19.06	24.17%	0.296	0.368	-
			Top side	0mm	384	836.52	20	19.20	20.23%	0.281	0.338	-

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

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

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Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	AR over 1g kg)	Plot page
				()		(111112)	Tolerance (dBm)	(dBm)		Measured	Reported	page
CDMA BC 0	EVDO	Rev. 0 Subtype 0/1	Back side	0mm	384	836.52	20	19.20	20.23%	0.098	0.118	-

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CDMA / EVDO (BC1) (without power reduction)

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Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	3	Plot page
				()		(2)	Tolerance (dBm)	(dBm)		Measured	Reported	pago
			Back side	25mm	25	1851.25	24	23.72	6.66%	0.267	0.285	-
			Top side	12mm	25	1851.25	24	23.72	6.66%	0.866	0.924	-
			Top side	12mm	600	1880	24	23.66	8.14%	1.020	1.103	333
CDMA	EVDO	Rev. 0	Top side*	12mm	25	1880	24	23.66	8.14%	1.010	1.092	-
BC 1	EVDO	Subtype 0/1	Top side	12mm	1175	1908.75	24	23.62	9.14%	0.998	1.089	-
			Bottom side	0mm	25	1851.25	24	23.72	6.66%	0.046	0.049	-
			Right side	0mm	25	1851.25	24	23.72	6.66%	0.027	0.029	-
			Left side	0mm	25	1851.25	24	23.72	6.66%	0.020	0.021	-

CDMA / EVDO (BC1) (with power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	3	AR over 1g 'kg)	Plot page
				(11111)		(111112)	Tolerance (dBm)	(dBm)		Measured	Reported	page
CDMA	EVDO	Rev. 0	Back side	0mm	25	1851.25	20	18.76	33.05%	0.519	0.691	-
BC 1	LVDO	Subtype 0/1	Top side	0mm	25	1851.25	20	18.76	33.05%	0.437	0.581	-

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

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

00.00	,	(20.)	optiona		יי די	J G C J	0011 (11111	. porro.	···	01.0,		
Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	3	AR over 1g /kg)	Plot page
				()		(Tolerance (dBm)	(dBm)		Measured	Reported	page
CDMA BC 1	EVDO	Rev. 0 Subtype 0/1	Top side	12mm	600	1880	24	23.66	8.14%	0.992	1.073	-

CDMA / EVDO (BC1) -Transceiver spot check (without power reduction)

										- /		
Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	3	SAR over 1g /kg)	Plot page
				()		(Tolerance (dBm)	(dBm)		Measured	Reported	page
CDMA BC 1	EVDO	Rev. 0 Subtype 0/1	Top side	12mm	600	1880	24	23.66	8.14%	0.974	1.053	-

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CDMA / EVDO (BC10) (without power reduction)

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	Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	0	AR over 1g 'kg)	Plot page
					(11111)		(11112)	Tolerance (dBm)	(dBm)		Measured	Reported	page
				Back side	25mm	684	823.1	23.5	23.05	10.92%	0.170	0.189	-
	ODMA		D 0	Top side	12mm	684	823.1	23.5	23.05	10.92%	0.246	0.273	-
	CDMA BC 10	EVDO	Rev. 0 Subtype 0/1	Bottom side	0mm	684	823.1	23.5	23.05	10.92%	0.041	0.045	-
1	DC 10		Subtype 0/1	Right side	0mm	684	823.1	23.5	23.05	10.92%	0.0016	0.002	-
				Left side	0mm	684	823.1	23.5	23.05	10.92%	0.0034	0.004	-

CDMA / EVDO (BC10) (with power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/		Plot page
				(11111)		(111112)	Tolerance (dBm)	(dBm)		Measured	Reported	page
			Back side	0mm	476	817.9	20	18.92	28.23%	0.274	0.351	-
CDMA	EVDO	Rev. 0	Back side	0mm	560	820	20	18.96	27.06%	0.281	0.357	-
BC 10	EVDO	Subtype 0/1	Back side	0mm	684	823.1	20	19.00	25.89%	0.289	0.364	334
			Top side	0mm	684	823.1	20	19.00	25.89%	0.282	0.355	-

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

CDMA / EVDO (BC10) – optional battery spot check (with power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	AR over 1g 'kg)	Plot page
				()		(2)	Tolerance (dBm)	(dBm)		Measured	Reported	pago
CDMA BC 10	EVDO	Rev. 0 Subtype 0/1	Back side	0mm	684	823.1	20	19.00	25.89%	0.087	0.110	-

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WLAN802.11 Main Antenna

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	AR over 1g /kg)	Plot page
			(111111)		(IVITZ)	Tolerance (dBm)	(dBm)		Measured	Reported	paye
		Back side	0	11	2462	15	14.47	12.98%	0.0395	0.045	-
		Top side	0	11	2462	15	14.47	12.98%	0.2	0.226	335
	WLAN802.11 b	Top side_ with optional battery	0	11	2462	15	14.47	12.98%	0.18	0.203	-
		Left side	0	11	2462	15	14.47	12.98%	0.0212	0.024	-
		Right side	0	11	2462	15	14.47	12.98%	0.0148	0.017	-
		Bottom side	0	11	2462	15	14.47	12.98%	0.00478	0.005	-
		Back side	0	48	5240	14.5	12.77	48.94%	0.0475	0.071	-
		Top side	0	44	5220	14.5	12.75	49.62%	0.582	0.871	336
	WLAN802.11 ac(20M)	Top side_ with optional battery	0	44	5220	14.5	12.75	49.62%	0.539	0.806	-
Main	5.2G	Top side	0	48	5240	14.5	12.77	48.94%	0.576	0.858	-
		Left side	0	48	5240	14.5	12.77	48.94%	0.0141	0.021	-
		Right side	0	48	5240	14.5	12.77	48.94%	0.015	0.022	-
		Bottom side	0	48	5240	14.5	12.77	48.94%	0.0157	0.023	-
		Back side	0	56	5280	14.5	13.76	18.58%	0.0521	0.062	-
		Top side	0	52	5260	14.5	13.58	23.59%	0.688	0.850	-
		Top side	0	56	5280	14.5	13.76	18.58%	0.776	0.920	337
	WLAN802.11 ac(20M) 5.3G	Top side_ with optional battery	0	56	5280	14.5	13.76	18.58%	0.754	0.894	-
		Left side	0	56	5280	14.5	13.76	18.58%	0.0141	0.017	-
		Right side	0	56	5280	14.5	13.76	18.58%	0.0156	0.018	-
		Bottom side	0	56	5280	14.5	13.76	18.58%	0.0137	0.016	-

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Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S (W/	SAR over 1g /kg)	Plot page
			(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)		Measured	Reported	page
		Back side	0	104	5520	14.5	14.16	8.14%	0.088	0.095	-
		Top side	0	104	5520	14.5	14.16	8.14%	1.02	1.103	338
		Top side*	0	104	5520	14.5	14.16	8.14%	0.995	1.076	-
	WLAN802.11 a 5.6G	Top side	0	120	5600	14.5	13.48	26.47%	0.794	1.004	-
		Left side	0	104	5520	14.5	14.16	8.14%	0.0187	0.020	-
		Right side	0	104	5520	14.5	14.16	8.14%	0.0172	0.019	-
		Bottom side	0	104	5520	14.5	14.16	8.14%	0.0149	0.016	-
		Back side	0	104	5520	14.5	14.02	11.69%	0.138	0.154	-
		Top side	0	104	5520	14.5	14.02	11.69%	0.977	1.091	339
		Top side	0	136	5680	14.5	13.49	26.18%	0.939	1.185	-
	WLAN802.11 ac(20M) 5.6G	Top side_ with optional battery	0	136	5680	14.5	13.49	26.18%	0.893	1.127	-
		Left side	0	104	5520	14.5	14.02	11.69%	0.0222	0.025	-
		Right side	0	104	5520	14.5	14.02	11.69%	0.0195	0.022	-
Main		Bottom side	0	104	5520	14.5	14.02	11.69%	0.0179	0.020	-
IVIAIII		Back side	0	138	5690	14	13.72	6.66%	0.123	0.131	-
		Top side	0	122	5610	14	12.09	55.24%	0.696	1.080	-
	WLAN802.11 ac(80M)	Top side	0	138	5690	14	13.72	6.66%	1.06	1.131	340
	5.6G	Left side	0	138	5690	14	13.72	6.66%	0.0228	0.024	-
		Right side	0	138	5690	14	13.72	6.66%	0.0317	0.034	-
		Bottom side	0	138	5690	14	13.72	6.66%	0.016	0.017	-
		Back side	0	155	5775	14	13.54	11.17%	0.153	0.170	-
		Top side	0	155	5775	14	13.54	11.17%	0.937	1.042	341
	WLAN802.11 ac(80M)	Top side_ with optional battery	0	155	5775	14	13.54	11.17%	0.907	1.008	-
	5.8G	Top side*	0	155	5775	14	13.54	11.17%	0.915	1.017	-
		Left side	0	155	5775	14	13.54	11.17%	0.0154	0.017	-
		Right side	0	155	5775	14	13.54	11.17%	0.0353	0.039	-
		Bottom side	0	155	5775	14	13.54	11.17%	0.0276	0.031	-

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

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WI ANSO2 11 Aux Antenna

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot
									Measured	Reported	page
		Back side	0	11	2462	15	15.00	0.00%	0.0878	0.088	-
		Bottom side	0	11	2462	15	15.00	0.00%	0.491	0.491	342
	WLAN802.11 b	Bottom side_ with optional battery	0	11	2462	15	15.00	0.00%	0.486	0.486	-
		Left side	0	11	2462	15	15.00	0.00%	0.0312	0.031	-
		Right side	0	11	2462	15	15.00	0.00%	0.0136	0.014	-
Aux		Top side	0	11	2462	15	15.00	0.00%	0.0133	0.013	-
		Back side	0	44	5220	14	13.59	9.90%	0.288	0.317	-
		Bottom side	0	44	5220	14	13.59	9.90%	0.921	1.012	343
	WLAN802.11 a 5.2G	Bottom side_ with optional battery	0	44	5220	14	13.59	9.90%	0.906	0.996	-
		Bottom side*	0	44	5220	14	13.59	9.90%	0.913	1.003	-
		Bottom side	0	48	5240	14	13.46	13.24%	0.849	0.961	-
		Left side	0	44	5220	14	13.59	9.90%	0.039	0.043	-
		Right side	0	44	5520	14	13.59	9.90%	0.0136	0.015	-
		Top side	0	44	5220	14	13.59	9.90%	0.0133	0.015	-
	WLAN802.11 ac(20M)	Bottom side	0	40	5200	14	13.54	11.17%	0.854	0.949	344
	5.2G	Bottom side	0	48	5240	14	13.29	17.76%	0.772	0.909	-
		Back side	0	52	5260	14	13.85	3.51%	0.334	0.346	-
		Bottom side	0	52	5260	14	13.85	3.51%	1.19	1.232	-
	WLAN802.11 a 5.3G	Bottom side	0	56	5280	14	13.65	8.39%	1.36	1.474	345
		Bottom side	0	60	5300	14	13.41	14.55%	1.1	1.260	-
		Bottom side	0	64	5320	11.5	11.06	10.66%	0.854	0.945	-
		Left side	0	52	5260	14	13.85	3.51%	0.0423	0.044	-
		Right side	0	52	5260	14	13.85	3.51%	0.0169	0.017	-
		Top side	0	52	5260	14	13.85	3.51%	0.0181	0.019	-
	WLAN802.11 n(20M)	Bottom side	0	52	5260	14	13.56	10.66%	1.21	1.339	-
		Bottom side	0	56	5280	14	13.44	13.76%	1.23	1.399	-
	5.3G	Bottom side	0	60	5300	13.3	13.27	0.69%	1.45	1.460	346
		Bottom side	0	64	5320	11.5	10.89	15.08%	0.835	0.961	-

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

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Antenna	Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling		SAR over 1g /kg)	Plot
1			(mm)		(MHz)	Tolerance (dBm)	(dBm)	J	Measured	Reported	page
		Bottom side	0	52	5260	14	13.62	9.14%	0.971	1.060	-
	WLAN802.11 ac(20M)	Bottom side	0	56	5280	13.5	13.48	0.46%	1.41	1.417	347
	5.3G	Bottom side	0	60	5300	13.5	13.24	6.17%	1.23	1.306	-
		Bottom side	0	64	5320	11.5	10.92	14.29%	0.513	0.586	-
		Bottom side	0	54	5270	13.7	13.62	1.86%	1.46	1.487	348
		Bottom side_ with optional battery	0	54	5270	13.7	13.62	1.86%	1.38	1.406	-
	WLAN802.11 n(40M) 5.3G	Bottom side_ with transceiver	0	54	5270	13.7	13.62	1.86%	1.41	1.436	-
		Bottom side*	0	54	5270	13.7	13.62	1.86%	1.44	1.467	-
		Bottom side*	0	54	5270	13.7	13.62	1.86%	1.42	1.446	-
		Bottom side	0	62	5310	11.5	10.92	14.29%	0.698	0.798	-
	WLAN802.11 ac(40M)	Bottom side	0	54	5270	13.5	13.41	2.09%	1.44	1.470	349
	5.3G	Bottom side	0	62	5310	11.5	10.86	15.88%	0.781	0.905	-
		Back side	0	136	5680	14.5	14.04	11.17%	0.247	0.275	-
Aux		Bottom side	0	104	5520	13.5	12.8	17.49%	1.09	1.281	-
		Bottom side	0	120	5600	14.5	13.42	28.23%	1.1	1.411	350
		Bottom side_ with optional battery	0	120	5600	14.5	13.42	28.23%	1.07	1.372	-
	WLAN802.11 a 5.6G	Bottom side_ with transceiver	0	120	5600	14.5	13.42	28.23%	1.02	1.308	-
		Bottom side*	0	120	5600	14.5	13.42	28.23%	1.05	1.346	-
		Bottom side	0	136	5680	14.5	14.04	11.17%	0.781	0.868	-
		Bottom side	0	140	5700	11.5	11.31	4.47%	0.469	0.490	-
		Left side	0	136	5680	14.5	14.04	11.17%	0.0537	0.060	-
		Right side	0	136	5680	14.5	14.04	11.17%	0.0186	0.021	-
		Top side	0	136	5680	14.5	14.04	11.17%	0.0223	0.025	-
	WLAN802.11 n(20M) 5.6G	Bottom side	0	136	5680	14	13.79	4.95%	0.879	0.923	351
	WLAN802.11 ac(20M) 5.6G	Bottom side	0	136	5680	14	13.95	1.16%	0.631	0.638	352

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

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Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	_	SAR over 1g /kg)	Plot page
			(111111)		(IVII IZ)	Tolerance (dBm)	(dBm)		Measured	Reported	paye
		Back side	0	134	5670	14.5	13.89	15.08%	0.269	0.310	
		Bottom side	0	110	5550	14.5	12.96	42.56%	0.477	0.680	-
	WLAN802.11 n(40M)	Bottom side	0	134	5670	14.5	13.89	15.08%	0.913	1.051	353
	5.6G	Left side	0	134	5670	14.5	13.89	15.08%	0.0512	0.059	-
		Right side	0	134	5670	14.5	13.89	15.08%	0.0179	0.021	-
		Top side	0	134	5670	14.5	13.89	15.08%	0.0163	0.019	-
		Back side	0	142	5710	14.5	14.36	3.28%	0.254	0.262	
		Bottom side	0	126	5630	14.5	13.37	29.72%	0.467	0.606	-
	WLAN802.11 ac(40M)	Bottom side	0	142	5710	14.5	14.36	3.28%	0.784	0.810	354
	5.6G	Left side	0	142	5710	14.5	14.36	3.28%	0.0463	0.048	-
		Right side	0	142	5710	14.5	14.36	3.28%	0.018	0.019	-
Aux		Top side	0	142	5710	14.5	14.36	3.28%	0.0152	0.016	-
		Back side	0	155	5775	14.5	14.46	0.93%	0.205	0.207	-
		Bottom side	0	155	5775	14.5	14.46	0.93%	0.81	0.817	355
		Bottom side_ with optional battery	0	155	5775	14.5	14.46	0.93%	0.759	0.766	-
	WLAN802.11 ac(80M) 5.8G	Bottom side_ with transceiver	0	155	5775	14.5	14.46	0.93%	0.796	0.803	-
		Bottom side*	0	155	5775	14.5	14.46	0.93%	0.788	0.795	-
		Left side	0	155	5775	14.5	14.46	0.93%	0.0377	0.038	-
		Right side	0	155	5775	14.5	14.46	0.93%	0.0173	0.017	-
		Top side	0	155	5775	14.5	14.46	0.93%	0.0128	0.013	-

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Transc	ansceiver				100						
Join	nt 2	Position	Distanc e	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling		SAR over 1g /kg)	Plot page
Degree	Direction		(mm)		(1711 12)	Tolerance (dBm)	(dBm)		Measured	Reported	page
		Back side	0	74	2471	19	18.95	1.16%	0.613	0.620	356
		Back side_ with optional battery	0	74	2471	19	18.95	1.16%	0.206	0.208	ı
0 degree	-	Left side	0	74	2471	19	18.95	1.16%	0.0143	0.014	-
		Right side	0	74	2471	19	18.95	1.16%	0.0028	0.003	-
		Bottom side	0	74	2471	19	18.95	1.16%	0.00821	0.008	-
		Back side	5	74	2471	19	18.95	1.16%	0.131	0.133	-
		Back side	0	74	2471	19	18.95	1.16%	0.33	0.334	-
		Left side	0	74	2471	19	18.95	1.16%	0.00475	0.005	-
	-Y	Right side	0	74	2471	19	18.95	1.16%	0.00095	0.001	-
		Bottom side	0	74	2471	19	18.95	1.16%	0.00062	0.001	-
		Back side	5	74	2471	19	18.95	1.16%	0.174	0.176	-
45		Back side	0	74	2471	19	18.95	1.16%	0.365	0.369	-
degree		Right side	0	74	2471	19	18.95	1.16%	0.0012	0.001	-
	+Y	Bottom side	0	74	2471	19	18.95	1.16%	0.00696	0.007	-
		Back side	5	74	2471	19	18.95	1.16%	0.109	0.110	-
	. V	Left side	0	74	2471	19	18.95	1.16%	0.00624	0.006	-
	+ X	Right side	0	74	2471	19	18.95	1.16%	0.00256	0.003	-
	+ X	Bottom side	0	74	2471	19	18.95	1.16%	0.000411	0.0004	-
		Back side	0	74	2471	19	18.95	1.16%	0.129	0.130	-
		Top side	0	74	2471	19	18.95	1.16%	0.334	0.338	-
	-Y	Left side	0	74	2471	19	18.95	1.16%	0.00037	0.0004	-
	- T	Right side	0	74	2471	19	18.95	1.16%	0.00038	0.0004	-
		Bottom side	0	74	2471	19	18.95	1.16%	0.000593	0.001	-
		Back side	5	74	2471	19	18.95	1.16%	0.0675	0.068	-
00	64	Back side	0	74	2471	19	18.95	1.16%	0.518	0.524	-
90 degree		Top side	0	74	2471	19	18.95	1.16%	0.208	0.210	-
degree	+Y	Right side	0	74	2471	19	18.95	1.16%	0.00027	0.0003	-
		Bottom side	0	74	2471	19	18.95	1.16%	0.00053	0.001	-
		Back side	5	74	2471	19	18.95	1.16%	0.113	0.114	-
		Top side	0	74	2471	19	18.95	1.16%	0.167	0.169	-
	, ,	Left side	0	74	2471	19	18.95	1.16%	0.00413	0.004	-
	+ X	Right side	0	74	2471	19	18.95	1.16%	0.00046	0.0005	-
		Bottom side	0	74	2471	19	18.95	1.16%	0.00247	0.002	-

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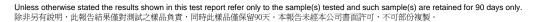
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Bluetooth

Blueto	Otti			-4-							
Antenna	Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance	Measured Avg. Power (dBm)	Scaling	Averaged : 1g (W/F Measured	ı	Plot page
		Back side	0	78	2480	6	5.25	18.85%	0.0115	0.014	-
		Top side	0	78	2480	6	5.25	18.85%	0.0000288	0.00003	-
		Left side	0	78	2480	6	5.25	18.85%	0.00455	0.005	-
		Right side	0	78	2480	6	5.25	18.85%	0.00193	0.002	-
		Bottom side	0	0	2402	6	4.72	34.28%	0.0107	0.014	-
Aux	ВТ	Bottom side	0	39	2441	6	5.09	23.31%	0.0141	0.017	-
		Bottom side	0	78	2480	6	5.25	18.85%	0.0585	0.070	357
		bottom side_ with optional battery	0	78	2480	6	5.25	18.85%	0.0515	0.061	-
		bottom side_ with transceiver	0	78	2480	6	5.25	18.85%	0.0455	0.054	-



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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
GPRS850/1900 + Transceiver	Yes
GPRS850/1900 + 2.4/5GHz WLAN Main + Transceiver	Yes
GPRS850/1900 + 2.4/5GHz WLAN Aux + Transceiver	Yes
GPRS850/1900 + 2.4/5GHz WLAN MIMO + Transceiver	Yes
WCDMA B2/5 + 2.4/5GHz WLAN Main	Yes
WCDMA B2/5 + 2.4/5GHz WLAN Aux	Yes
WCDMA B2/5 + 2.4/5GHz WLAN MIMO	Yes
WCDMA B2/5 + Transceiver	Yes
WCDMA B2/5 + 2.4/5GHz WLAN Main + Transceiver	Yes
WCDMA B2/5 + 2.4/5GHz WLAN Aux + Transceiver	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN MIMO + Transceiver	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
LTE B2/4/5/13/17/25 + Transceiver	Yes
LTE B2/4/5/13/17/25 + 2.4/5GHz WLAN Main + Transceiver	Yes
LTE B2/4/5/13/17/25 + 2.4/5GHz WLAN Aux + Transceiver	Yes
LTE B2/4/5/13/17/25 + 2.4/5GHz WLAN MIMO + Transceiver	Yes
CDMA BCO/BC1/10 + 2.4/5GHz WLAN Main	Yes
CDMA BCO/BC1/10 + 2.4/5GHz WLAN Aux	Yes
CDMA BCO/BC1/10 + 2.4/5GHz WLAN MIMO	Yes
CDMA BC0/BC1/10 + Transceiver	Yes
CDMA BC0/BC1/10 + 2.4/5GHz WLAN Main + Transceiver	Yes
CDMA BC0/BC1/10 + 2.4/5GHz WLAN Aux + Transceiver	Yes
CDMA BC0/BC1/10 + 2.4/5GHz WLAN MIMO + Transceiver	Yes
GPRS850/1900 + 2.4/5GHz WLAN Main + BT + Transceiver	Yes
WCDMA B2/5 + 2.4/5GHz WLAN Main + BT + Transceiver	Yes
LTE B2/4/5/13/17/25 + 2.4/5GHz WLAN Main + BT + Transceiver	Yes
CDMA BCO/BC1/BC10 + 2.4/5GHz WLAN Main + BT + Transceiver	Yes

- 1. WWAN, WLAN and transceiver may transmit simultaneously.
- 2. Bluetooth and WLAN Aux share the same antenna path, and BT can't 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.
- 4. There are so many combination for simultaneous transmission, we choose the worst cases(all transmitters transmit simultaneously at maximum power) to do the simultaneous transmission analysis to capture the worst cases.
- 5. For the simultaneous transmission analysis in BT part, the simultaneous transmission for

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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:

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

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

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.

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GPRS 850 + 2.4GHz WLAN MIMO + Transceiver

_														
	No.	Conditions	Position Distan (mm)		Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR				
Ī			Back side	0	0.493	0.045	0.088	0.62	1.246	ΣSAR<1.6, Not required				
	6		Top side	0	0.202	0.226	0.013	0.338	0.779	ΣSAR<1.6, Not required				
	1	850	850	850	850	850	Bottom side	0	0.038	0.005	0.491	0.008	0.542	ΣSAR<1.6, Not required
			Left side 0		0.022	0.024	0.031	0.014	0.091	ΣSAR<1.6, Not required				
			Right side	0	0.019	0.017	0.014	0.003	0.053	ΣSAR<1.6, Not required				

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GPRS 1900 + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.89	0.045	0.088	0.62	1.643	Analyzed as below
(Top side	0	0.727	0.226	0.013	0.338	1.304	ΣSAR<1.6, Not required
2	1900	Bottom side	0	0.037	0.005	0.491	0.008	0.541	ΣSAR<1.6, Not required
		Left side	0	0.02	0.024	0.031	0.014	0.089	ΣSAR<1.6, Not required
		Right side	0	0.029	0.017	0.014	0.003	0.063	ΣSAR<1.6, Not required

SPLSR GPRS1900 & WLAN Main

•	JI LOIN OI INS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V - / 11 4 11	Idiii						
	Conditions	Position	SAR Value	С	oordinates (cr	n)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
).	GPRS 1900	Back side	0.89	9.30	-3.45	-0.10	0.935	85.4 0	1 0 011 1	SPLSR<0.04,
	WLAN Main b CH11	Dack Sluc	0.045	8.68	5.04	0.53	0.733	05.4	0.011	Not required



WWAN Main

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SPI SR GPRS1900 & WI AN Aux

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Conditions		SAR	Co	oordinates (cn	n)	ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
GPRS 1900	Back side	0.89	9.30	-3.45	-0.10	0.978	199.6	0.005	SPLSR<0.04,
WLAN Aux b CH11	back side	0.088	-9.72	-9.46	0.57	0.976	199.0	0.003	Not required

Aux



WWAN

SPLSR GPRS1900 & Transceiver

Conditions	Docition	SAR	С	oordinates (cn	n)	ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
GPRS 1900	Back side	0.89	9.30	-3.45	-0.10	1.51	73.3	0.025	SPLSR<0.04,
Transceiver	Dack Side	0.62	13.00	-9.78	-0.17	1.31	73.3	0.025	Not required



Transceiver WWAN

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SPLSR WLAN Main & WLAN Aux

- 2	JI LJIN WEATH	man a m	-/ (I t / (G/)							
	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
1	WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.133	234.3	0.000	SPLSR<0.04,
1	WLAN Aux b CH11	Dack side	0.088	-9.72	-9.46	0.57	0.133	254.5	0.000	Not required





Main

SPLSR WLAN	<u> Main & Tra</u>	<u>ınsceive</u> ı	r							
		SAR	Coor	dinates	(cm)	ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test	
WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.665	154.5	0.004	SPLSR<0.04,	
Transceiver	Dack side	0.62	13.00	-9.78	-0.17	0.003	134.5	0.004	Not required	

Transceiver

Main

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SPLSR WLAN Aux & Transceiver

Conditions		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Aux b CH11	Back side	0.088	-9.72	-9.46	0.57	0.708	227.3	0.003	SPLSR<0.04,
Transceiver	Dack Side	0.62	13.00	-9.78	-0.17	0.708	221.3	0.003	Not required

Aux



Transceiver

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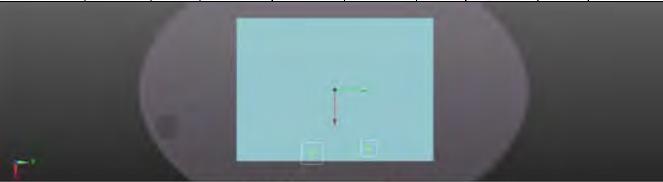
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WCDMA Band II + 2.4GHz WLAN MIMO + Transceiver

No	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.941	0.045	0.088	0.62	1.694	Analyzed as below
6		Top side	0	0.664	0.226	0.013	0.338	1.241	ΣSAR<1.6, Not required
3	WCDMA B2	Bottom side	0	0.043	0.005	0.491	0.008	0.547	ΣSAR<1.6, Not required
		Left side	0	0.008	0.024	0.031	0.014	0.077	ΣSAR<1.6, Not required
		Right side	0	0.02	0.017	0.014	0.003	0.054	ΣSAR<1.6, Not required

SPLSR WCDMA B2 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Co	oordinates (cn	n)	ΣSAR - (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z		Distance (mm)		SAR Test
WCDMA B2	Back side	0.941	9.30	-3.45	-0.10	0.986	85.4	0.011	SPLSR<0.04,
WLAN Main b CH11	Dack Side	0.045	8.68	5.04	0.53	0.960	05.4	0.011	Not required



WWAN

Main

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SPLSR WCDMA B2 & WLAN Aux

Conditions	Position	SAR	С	oordinates (cr	ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WCDMA B2	Back side	0.941	9.30	-3.45	-0.10	1.029	199.6	0.005	SPLSR<0.04,
WLAN Aux b CH11	Dack Side	0.088	-9.72	-9.46	0.57	1.029	199.0	0.005	Not required
			Aux						



WWAN Aux

SPLSR WCDMA B2 & Transceiver

Conditions	Position	SAR	С	oordinates (cr	ΣSAR	Peak Location		Simultaneous	
		Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WCDMA B2	Back side	0.941	9.30	-3.45	-0.10	1.561	73.3	0.027	SPLSR<0.04,
Transceiver		0.62	13.00	-9.78	-0.17	1.301	13.3	0.027	Not required



Transcever

WWAN

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SPLSR WLAN Main & WLAN Aux

	Conditions	Position	SAR Value	Coor	dinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
1	WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.133	234.3	0.000	SPLSR<0.04,
	WLAN Aux b CH11	0.088		-9.72	-9.46	0.57	0.133	254.5	0.000	Not required





Main

SPLSR WLAN	Main & Tra	nsceive	r							
		SAR				ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test	
WLAN Main b CH11	· Back side	0.045	8.68	5.04	0.53	0.665	154.5	0.004	SPLSR<0.04,	
Transceiver	Dack side	0.62	13.00	3.00 -9.78 -0.17		0.003	104.0	0.004	Not required	
		0.62								

Transceiver

Main

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SPLSR WLAN Aux & Transceiver

Conditions	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions		Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Aux b CH11	Back side	0.088	-9.72	-9.46	0.57	0.708	227.3	0.003	SPLSR<0.04,
Transceiver	Dack Side	0.62	13.00	-9.78	-0.17	0.708	221.3	0.003	Not required





Transceiver

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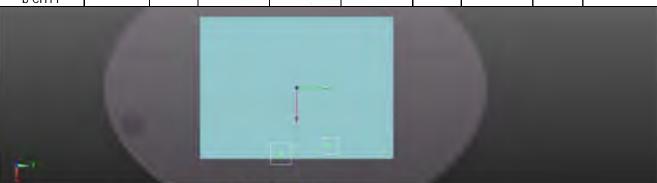
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WCDMA Band IV + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)		Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.944	0.045	0.088	0.62	1.697	Analyzed as below
F	7	Top side	0	0.871	0.226	0.013	0.338	1.448	ΣSAR<1.6, Not required
4	WCDMA B4	Bottom side	0	0.032	0.005	0.491	0.008	0.536	ΣSAR<1.6, Not required
		Left side	0	0.027	0.024	0.031	0.014	0.096	ΣSAR<1.6, Not required
		Right side	0 0.014		0.017	0.014	0.003	0.048	ΣSAR<1.6, Not required

SPLSR WCDMA B4 & WLAN Main

Conditions	Position	SAR Value (W/kg)	C	oordinates (cn	n)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
	. Comon		Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B4	Back side	0.944	9.75	-2.40	-0.10	0.989	75.4	0.013	SPLSR<0.04,
WLAN Main b CH11	Dack Side	0.045	8.68	5.04	0.53	0.769	75.4	0.013	Not required



WWAN Main

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SPLSR WCDMA B4 & WLAN Aux

	Conditions	Position	SAR	C	oordinates (cn	n)	ΣSAR	Peak Location		Simultaneous
			Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
	WCDMA B4	Back side	0.944	9.75	-2.40	-0.10	1.032	207.2	0.005	SPLSR<0.04,
	WLAN Aux b CH11	Dack Side	0.088	-9.72	-9.46	0.57	1.032	207.2	0.005	Not required

Aux



WWAN

SPLSR WCDMA B4 & Transceiver

Conditions	Position	SAR	С	oordinates (cr	ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WCDMA B4	Back side	0.944	9.75	-2.40	-0.10	1.564	80.6	0.024	SPLSR<0.04,
Transceiver	back side	0.62	13.00	-9.78	-0.17	1.304	60.0	0.024	Not required



Transcever

WWAN

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SPLSR WLAN Main & WLAN Aux

			_/ \ \ / \\ \ /							
	Conditions	Position	SAR Value	Coor	dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(w/kg)	Distance (mm)		SAR Test
1	WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.133	234.3	0.000	SPLSR<0.04,
	WLAN Aux b CH11	Dack Side	0.088	-9.72	-9.46	0.57	0.133	234.3	0.000	Not required





Main

SPLSR WLAN	Main & Tra	nsceive	r							
		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	Х	y z (W/kg)		Separation Distance (mm)	SPLSR	Transmission SAR Test		
WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.665	154.5	0.004	SPLSR<0.04,	
Transceiver	Dack Side	0.62	13.00	13.00 -9.78 -0.17		0.003	104.0	0.004	Not required	

Transceiver

Main

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SPLSR WLAN Aux & Transceiver

	Position	SAR	Coor	dinates ((cm)	ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Aux b CH11	Back side	0.088	-9.72	-9.46	0.57	0.708	227.3	0.003	SPLSR<0.04,
Transceiver	Dack Side	0.62	13.00	-9.78	-0.17	0.708	221.3	0.003	Not required





Transceiver

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WCDMA Band V + 2.4GHz WLAN MIMO + Transceiver

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No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.377	0.045	0.088	0.62	1.13	ΣSAR<1.6, Not required
		Top side	0	0.363	0.226	0.013	0.338	0.94	ΣSAR<1.6, Not required
5	WCDMA B5	Bottom side	0	0.037	0.005	0.491	0.008	0.541	ΣSAR<1.6, Not required
		Left side	0	0.01	0.024	0.031	0.014	0.079	ΣSAR<1.6, Not required
		Right side	0	0.006	0.017	0.014	0.003	0.04	ΣSAR<1.6, Not required

CDMA / EVDO BCO + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.369	0.045	0.088	0.62	1.122	ΣSAR<1.6, Not required
		Top side	0	0.338	0.226	0.013	0.338	0.915	ΣSAR<1.6, Not required
6	EVDO BC0	Bottom side	0	0.035	0.005	0.491	0.008	0.539	ΣSAR<1.6, Not required
		Left side	0	0.003	0.024	0.031	0.014	0.072	ΣSAR<1.6, Not required
		Right side	0	0.005	0.017	0.014	0.003	0.039	ΣSAR<1.6, Not required

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CDMA / EVDO BC1 + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.691	0.045	0.088	0.62	1.444	ΣSAR<1.6, Not required
		Top side	0	0.581	0.226	0.013	0.338	1.158	ΣSAR<1.6, Not required
7	EVDO BC1	Bottom side	0	0.049	0.005	0.491	0.008	0.553	ΣSAR<1.6, Not required
		Left side	0	0.021	0.024	0.031	0.014	0.09	ΣSAR<1.6, Not required
		Right side	0	0.029	0.017	0.014	0.003	0.063	ΣSAR<1.6, Not required

CDMA / EVDO BC10 + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
9		Back side	0	0.364	0.045	0.088	0.62	1.117	ΣSAR<1.6, Not required
		Top side	0	0.355	0.226	0.013	0.338	0.932	ΣSAR<1.6, Not required
8	EVDO BC10	Bottom side	0	0.045	0.005	0.491	0.008	0.549	ΣSAR<1.6, Not required
		Left side	0	0.004	0.024	0.031	0.014	0.073	ΣSAR<1.6, Not required
		Right side	0	0.002	0.017	0.014	0.003	0.036	ΣSAR<1.6, Not required

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LTE FDD Band II + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	1.182	0.045	0.088	0.62	1.935	Analyzed as below
		Top side	0	0.914	0.226	0.013	0.338	1.491	ΣSAR<1.6, Not required
9	LTE B2	Bottom side	0	0.045	0.005	0.491	0.008	0.549	ΣSAR<1.6, Not required
		Left side	0	0.011	0.024	0.031	0.014	0.08	ΣSAR<1.6, Not required
		Right side	0	0.024	0.017	0.014	0.003	0.058	ΣSAR<1.6, Not required

SPLSR LTE Band 2 & WLAN Main

`	PLOK LIE E		VVL/\IV	IVIAIII						
	Conditions			C	oordinates (cr	n)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	Х	у	Z	(w/kg)	Distance (mm)		SAR Test
	LTE B2	Back side	1.182	9.46	-3.51	-0.19	1.227	86.2	0.016	SPLSR<0.04,
	WLAN Main b CH11	Dack side	0.045	8.68	5.04	0.53	1.227	00.2	0.010	Not required
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WWAN Main

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SPLSR LTE Band 2 & WLAN Aux

Conditions	Position	SAR Value	C	oordinates (cr	n)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SFLSK	SAR Test
LTE B2	Back side	1.182	9.46	-3.51	-0.19	1.27	201	0.007	SPLSR<0.04,
WLAN Aux b CH11	Dack Side	0.088	-9.72	-9.46	0.57	1.27	201	0.007	Not required





WWAN

SPLSR LTE Band 2 & Transceiver

Conditions	Position	SAR Value	C	oordinates (cr	m)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
LTE B2	Back side	1.182	9.46	-3.51	-0.19	1.802	72	0.034	SPLSR<0.04,
Transceiver	back side	0.62	13.00	-9.78	-0.17	1.602	72	0.034	Not required



Transcever WWAN

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SPLSR WLAN Main & WLAN Aux

			_/ \ \ / \\ \ /							
	Conditions	Position	SAR Value	Coor	dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(w/kg)	Distance (mm)		SAR Test
1	WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.133	234.3	0.000	SPLSR<0.04,
	WLAN Aux b CH11	Dack Side	0.088	-9.72	-9.46	0.57	0.133	234.3	0.000	Not required





Main

SPLSR WLAN	Main & Ira	insceive	<u>r </u>							
		SAR	Coor	dinates	(cm)	ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test	
WLAN Main b CH11	Rack side	0.045	8.68	5.04	0.53	0.665	154.5	0.004	SPLSR<0.04,	
Transceiver	Dack side	Back side 0.62		3.00 -9.78 -0.17		0.003	134.3	0.004	Not required	

Transceiver

Main

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SPLSR WLAN Aux & Transceiver

	Dosition	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Aux b CH11	Back side	0.088	-9.72	-9.46	0.57	0.708	227.3	0.003	SPLSR<0.04,
Transceiver	Dack Side	0.62	13.00	-9.78	-0.17	0.708	221.3	0.003	Not required

Aux



Transceiver

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LTE FDD Band IV + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	ition Distance Max (mm) WWA		Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.797	0.045	0.088	0.62	1.55	ΣSAR<1.6, Not required
		Top side	0	0.983	0.226	0.013	0.338	1.56	ΣSAR<1.6, Not required
10	LTE B4	Bottom side	0	0.0.31	0.005	0.491	0.008	0.535	ΣSAR<1.6, Not required
		Left side	0	0.014	0.024	0.031	0.014	0.083	ΣSAR<1.6, Not required
		Right side	0	0.012	0.017 0.014		0.003	0.046	ΣSAR<1.6, Not required

LTE FDD Band V + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.49	0.045	0.088	0.62	1.243	ΣSAR<1.6, Not required
		Top side	0	0.234	0.226	0.013	0.338	0.811	ΣSAR<1.6, Not required
11	LTE B5	Bottom side	0	0.041	0.005	0.491	0.008	0.545	ΣSAR<1.6, Not required
		Left side	0	0.02	0.024	0.031	0.014	0.089	ΣSAR<1.6, Not required
	Right side		0	0.012	0.017	0.014	0.003	0.046	ΣSAR<1.6, Not required

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LTE FDD Band XIII + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.499	0.045	0.088	0.62	1.252	ΣSAR<1.6, Not required
6	5	Top side	0	0.303	0.226	0.013	0.338	0.88	ΣSAR<1.6, Not required
12	LTE B13	Bottom side	0	0.016	0.005	0.491	0.008	0.52	ΣSAR<1.6, Not required
		Left side	0	0.027	0.024	0.031	0.014	0.096	ΣSAR<1.6, Not required
		Right side	0	0.006	0.017	0.014	0.003	0.04	ΣSAR<1.6, Not required

LTE FDD Band XVII + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
1		Back side	0	0.438	0.045	0.088	0.62	1.191	ΣSAR<1.6, Not required
		Top side	0	0.359	0.226	0.013	0.338	0.936	ΣSAR<1.6, Not required
13	LTE B17	Bottom side	0	0.048	0.005	0.491	0.008	0.552	ΣSAR<1.6, Not required
		Left side	0	0.049	0.024	0.031	0.014	0.118	ΣSAR<1.6, Not required
		Right side	0	0.015	0.017	0.014	0.003	0.049	ΣSAR<1.6, Not required

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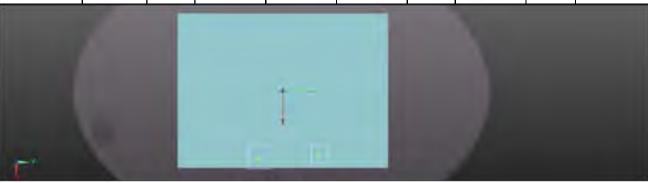
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LTE FDD Band XXV + 2.4GHz WLAN MIMO + Transceiver

No.	Conditions	Position	on Distance Max. (mm) WWAN V		Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.946	0.045	0.088	0.62	1.699	Analyzed as below
		Top side	0	0.73	0.226	0.013	0.338	1.307	ΣSAR<1.6, Not required
14	LTE B25	Bottom side	0	0.039	0.005	0.491	0.008	0.543	ΣSAR<1.6, Not required
		Left side	0	0.001			0.014	0.07	ΣSAR<1.6, Not required
		Right side	0	0.005			0.003	0.039	ΣSAR<1.6, Not required

SPLSR LTE Band 25 & WLAN Main

	Conditions	Position	SAR Value (W/kg)	Ci	oordinates (cn	n)	ΣSAR	Peak Location Separation	ration SPLSR ance	Simultaneous Transmission
				Х	у	Z	(W/kg)	Distance (mm)		SAR Test
	LTE B25	Back side	0.946	9.32	-3.67	-0.18	0.991	87.6	0.011	SPLSR<0.04,
	WLAN Main b CH11	Dack Side	0.045	8.68	5.04	0.53	0.991	07.0	0.011	Not required



Main

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SPLSR LTE Band 25 & WLAN Aux

Conditions	Position	SAR Value	C	oordinates (cr	n)	ΣSAR	Peak Location	CDI CD	Simultaneous
		(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
LTE B25	Back side	0.946	9.32	-3.67	-0.18	1.034	199.2	0.005	SPLSR<0.04,
WLAN Aux b CH11	back side	0.088	-9.72 -9.46 0.5		0.57	1.034	199.2	0.005	Not required





WWAN

SPLSR LTE Band 25 & Transceiver

JI LJK LIL L	Janu 25 6	t Hullo	CIVCI							
Conditions	Position	SAR	C	oordinates (cr	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission		
Conditions	POSITION	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test	
LTE B25	Back side	0.946	9.32	-3.67	-0.18	1.566	71.3	0.027	SPLSR<0.04,	
Transceiver	Dack slue	Back side 0.62		13.00 -9.78 -0.17		1.500	71.5	0.027	Not required	
					-					

Transcever WWAN

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SPLSR WLAN Main & WLAN Aux

- 2	JI LJIN WEATH	man a m	-/ (I t / (G/)							
	Conditions	Position			dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
					у	Z	(W/kg)	Distance (mm)		SAR Test
1	WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.133	234.3	0.000	SPLSR<0.04,
1	WLAN Aux b CH11	Dack side	0.088	-9.72	-9.46	0.57	0.133	254.5	0.000	Not required





Main

SPLSR WLAN Main & Transceiver											
		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous		
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test		
WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.665	154.5	0.004	SPLSR<0.04,		
Transceiver	Dack Side	0.62	13.00	-9.78	-0.17	0.003	104.0	0.004	Not required		

Transceiver

Main

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SPLSR WLAN Aux & Transceiver

	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions			х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Aux b CH11	Back side -	0.088	-9.72	-9.46	0.57	0.708	227.3	0.003	SPLSR<0.04,
Transceiver		0.62	13.00	-9.78	-0.17	0.708	221.3	0.003	Not required

Aux



Transceiver

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GPRS 850 + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
	3	Back side	0	0.493	0.17	0.346	0.62	1.629	Analyzed as below
•		Top side	0	0.202	1.185	0.025	0.338	1.75	Analyzed as below
15	850	Bottom side	0	0.038	0.031	1.487	0.008	1.564	ΣSAR<1.6, Not required
		Left side	0	0.022	0.025	0.06	0.014	0.121	ΣSAR<1.6, Not required
		Right side	0	0.019	0.039	0.021	0.003	0.082	ΣSAR<1.6, Not required

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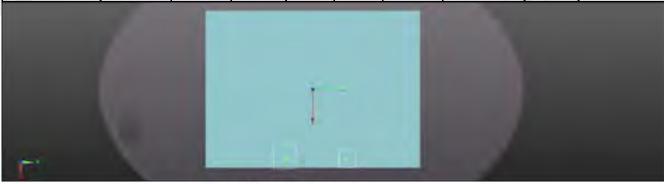
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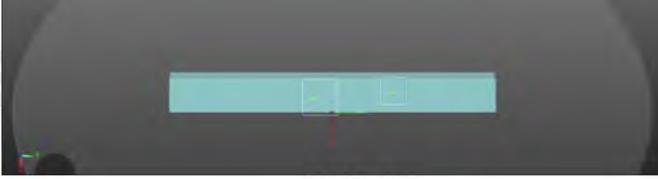
SPLSR GPRS850 & WLAN Main

Conditions	Position	SAR sition Value (W/kg)	Coor	dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			х	у	Z				
GPRS 850 CH190	Dook side	0.493	9.32	-3.58	-0.29	0.443	02 E	0.004	SPLSR<0.04,
WLAN Mair ac(80M) CH1		ack side 0.17 9.30 4.72 0.60 0.663	0.003	83.5	0.006	Not required			



WWAN Main

	Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
				Х	у	Z	(W/kg)	Distance (mm)		SAR Test
	GPRS 850 CH190	Tau alda	0.202	-1.19	-1.79	-0.42	1.387	72.5	0.023	SPLSR<0.04,
	WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.307	72.5	0.023	Not required



WWAN Main

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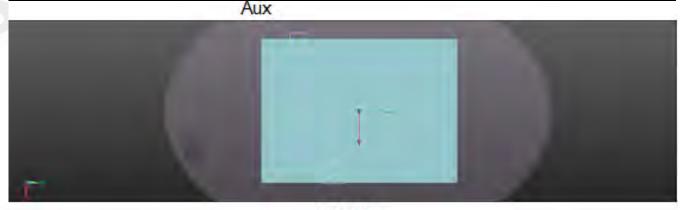
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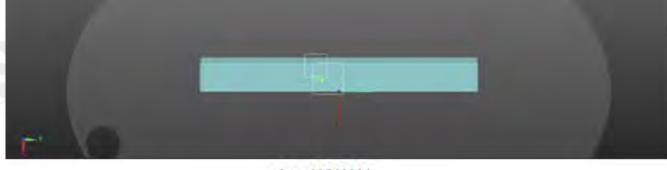
SPLSR GPRS850 & WLAN Aux

_	I LOIK OF KOOK									
	Conditions	Docition	Position SAR Value (W/kg)	Coor	Coordinates (cm)			Peak Location	SPLSR	Simultaneous
	Conditions	POSITION		х	у	Z	(W/kg)	Separation Distance	SPLSK	Transmission SAR Test
	GPRS 850 CH190	Back side	0.493	9.32	-3.58	-0.29	0.839	203.7	0.004	SPLSR<0.04,
	WLAN Aux a CH52		0.346	-10.20	-9.32	0.61		203.7	0.004	Not required



WWAN

Conditions Position	Docition	SAR	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous
	POSITION	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	Transmission SAR Test
GPRS 850 CH190	Top side	0.202	-1.19	-1.79	-0.42	0.227	22.0	0.005	SPLSR<0.04,
WLAN Aux a CH 136		0.025	-1.50	-2.34	1.77	0.227	22.8	0.005	Not required



Aux WWAN

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SPLSR GPRS850 & Transceiver

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	POSITION		х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
GPRS 850 CH190	Back side	0.493	9.32	-3.58	-0.29	1.113	72.1	0.016	SPLSR<0.04,
Transceiver	Dack side	0.62	13.00 -9.78		-0.17	1.113	72.1	0.010	Not required

Transceiver WWAN

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	1 03111011	(W/kg)		у	Z	(W/kg)	Separation Distance	31 ESIX	SAR Test
GPRS 850 CH190	Top side	0.202	-1.19	-1.79	-0.42	0.54	52.2	0.008	SPLSR<0.04,
Transceiver	rop side	0.338	-3.52	-6.46	-0.48	0.54	0Z.Z	0.000	Not required
					1				
									1
1	40								- 4

Transceiver

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WWAN



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SPLSR WLAN Main & WLAN Aux

Conditions Position	Position	osition SAR Value (W/kg)	Coor	dinates (cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
			х	У	Z	(W/Kg)			SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
WLAN Aux a CH52	back side	0.346	-10.20	-9.32	0.61	0.516	240.3	0.002	Not required





Main

Conditions	SAR Position Valu		Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	00.7	0.010	Not required



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SPLSR WLAN Main & Transceiver

_	PLSK WLAIN	IVIAIII & III	anscerve							
	Conditions Position		SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
	001141110110	. comon	(W/kg)	Х	У	Z	(W/kg)	Distance	0. 20.1	SAR Test
	WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
	Transceiver	Buok side	0.482	8.92	-12.68	-0.30	0.002	171.0	0.000	Not required
1										
						.0				

Transceiver

Main

			SAR	Coor	dinates	(cm)	ΣSAR	Peak Location		Simultaneous
	Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
	WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
l	Transceiver	. op 3.0.3	0.338	-3.52	-6.46	-0.48	0.000		0.002	Not required
							_			
	T							-		1

Transceiver

Main

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SPLSR WLAN Aux & Transceiver

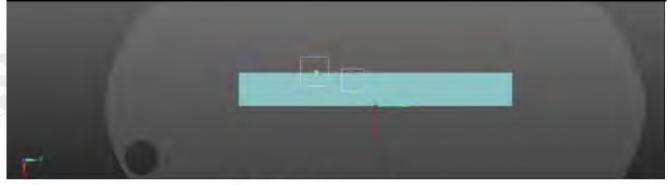
Conditions	Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance		SAR Test
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver	Dack Side	0.482	8.92	-12.68	-0.30	0.020	174.3	0.004	Not required





Transceiver

		SAR Position Value		Coordinates (cm)			Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	ΣSAR (W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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GPRS 1900 + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.89	0.17	0.346	0.62	2.026	Analyzed as below
6		Top side	0	0.727	1.185	0.025	0.338	2.275	Analyzed as below
16	1900	Bottom side	0	0.037	0.031	1.487	0.008	1.563	ΣSAR<1.6, Not required
		Left side	0	0.02	0.025	0.06	0.014	0.119	ΣSAR<1.6, Not required
		Right side	0	0.029	0.039	0.021	0.003	0.092	ΣSAR<1.6, Not required

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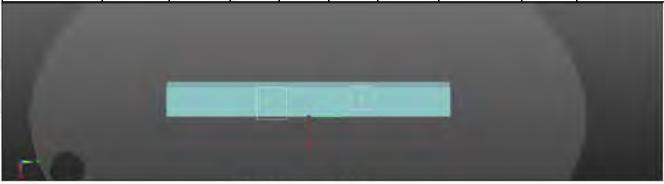
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SDLSD CDDS1000 8, WLAN Main

SPLSR GPRST	900 & WL	AN Waln							
Conditions	Position	Value		Coordinates (cm)			Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
GPRS 1900 CH810	Back side	0.89	9.30	-3.45	-0.10	1.06	82	0.013	SPLSR<0.04,
WLAN Main ac(80M) CH155		0.17	9.30	4.72	0.60	1.00	02	0.013	Not required
		_							
T									

WWAN Main

Conditions	Position	SAR Value	Coordinates		, ,		Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
GPRS 1900 CH810	Top side	0.727	-1.35	-4.33	-0.27	1.912	97.8	0.027	SPLSR<0.04,
WLAN Main ac(20M) CH136		1.185	-1.74	5.44	-0.44	1.712	77.0	0.027	Not required



WWAN Main

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SPLSR GPRS1900 & WLAN Aux

OI LOIK OI KO									
	SAR		Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
GPRS 1900 CH810	- Back side	0.89	9.30	-3.45	-0.10	1.236	203.8	0.007	SPLSR<0.04,
WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	1.230	203.6	0.007	Not required

Aux



WWAN

Conditions	Docition	SAR	· · ·		ΣSAR	Peak Location	SPLSR	Simultaneous Transmission	
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
GPRS 1900 CH810	Top side	0.727	-1.35	-4.33	-0.27	0.752	28.6	0.023	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.752	26.0	0.023	Not required



WWAN Aux

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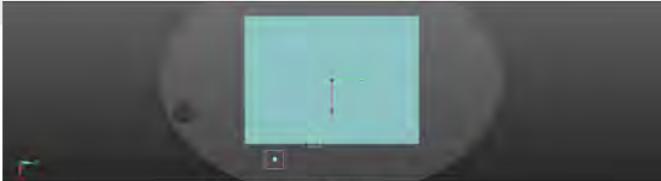
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SPLSR GPRS1900 & Transceiver

Conditions	Da altilara	SAR	Coord	dinates ((cm)	ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
GPRS 1900 CH810	Back side	0.89	9.30	-3.45	-0.10	1.51	73.3	0.025	SPLSR<0.04,
Transceiver	back side	0.62	13.00	-9.78	-0.17	1.51	73.3	0.025	Not required



Transceiver WWAN

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	FOSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	JF LJK	SAR Test
GPRS 1900 CH810	Top side	0.727	-1.35	-4.33	-0.27	1.065	30.5	0.036	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	1.003	30.5	0.030	Not required
				1					-
-									

Transceiver WWAN

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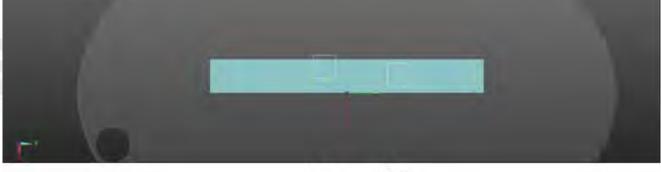
SPLSR WLAN Main & WLAN Aux

ı										
	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
	WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
	WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	0.510	240.3	0.002	Not required

Aux



			_		IVICIII				
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	00.9	0.010	Not required



Main Aux

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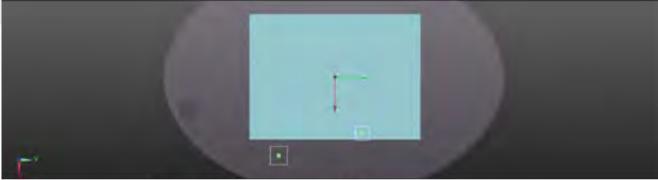
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SPLSR WLAN Main & Transceiver

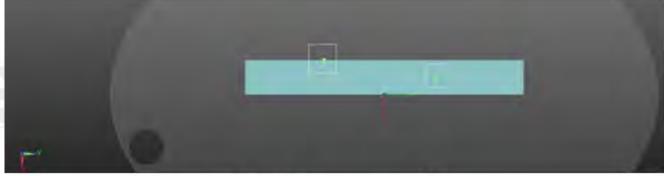
Conditions	Conditions Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
Conditions	7 00111011	(W/kg)	Х	У	Z	(W/kg)	Distance	or zorc	SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	back side	0.482	8.92	-12.68	-0.30	0.032	174.3	0.003	Not required



Transceiver

Main

	Conditions Position Value		Coor	dinates	(cm)	ΣSAR	Peak Location	051.05	Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Transceiver	rop side	0.338	-3.52	-6.46	-0.48	0.303	120.3	0.002	Not required



Transceiver

Main

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SPLSR WLAN Aux & Transceiver

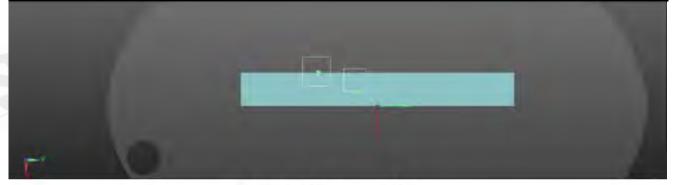
Conditions	Conditions Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/kg)	Distance		SAR Test
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver	Dack Side	0.482	8.92	-12.68	-0.30	0.020	174.3	0.004	Not required





Transceiver

	- ···	SAR Position Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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WCDMA Band II + 5GHz WLAN MIMO + Transceiver

				A 41 15					
No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.941	0.17	0.346	0.62	2.077	Analyzed as below
(Top side	0	0.664	1.185	0.025	0.338	2.212	Analyzed as below
17	WCDMA B2	Bottom side	0	0.043	0.031	1.487	0.008	1.569	ΣSAR<1.6, Not required
		Left side	0	0.008	0.025	0.06	0.014	0.107	ΣSAR<1.6, Not required
		Right side	0	0.02	0.039	0.021	0.003	0.083	ΣSAR<1.6, Not required

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SPLSR WCDMA B2 & WLAN Main

Conditions	Position	SAR Value	Coor	dinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B2	Rack side	0.941	9.30	-3.45	-0.10	1 111	Q?	0.014	SPLSR<0.04,
WLAN Main ac(80M) CH155		0.17	9.30	4.72	0.60	1.111	02	0.014	Not required
	WCDMA B2 WLAN Main	WCDMA B2 Back side	Conditions Position Value (W/kg) WCDMA B2 WLAN Main Back side 0.941	Conditions Position Value (W/kg) x WCDMA B2 Back side 0.941 9.30	Conditions Position Value (W/kg) x y WCDMA B2 Back side 0.941 9.30 -3.45 WLAN Main ac(80M) CH155 0.17 9.30 4.72	Conditions Position Value (W/kg) x y z WCDMA B2 Back side 0.941 9.30 -3.45 -0.10 WLAN Main 0.17 9.30 4.72 0.60	Conditions Position Value (W/kg) X y Z SAR (W/kg) WCDMA B2 Back side 0.941 9.30 -3.45 -0.10 1.111 WLAN Main ac(80M) CH155 0.17 9.30 4.72 0.60 1.111	ConditionsPositionSAR Value (W/kg)Coordinates (cm)ΣSAR (W/kg)Location Separation Distance (mm)WCDMA B2Back side0.9419.30-3.45-0.10WLAN Main ac(80M) CH1550.179.304.720.60	Conditions Position SAR Value (W/kg) Coordinates (cm) ΣSAR (W/kg) Location Separation (M/kg) SPLSR WCDMA B2 Back side (M/kg) 0.941 9.30 -3.45 -0.10 1.111 82 0.014 WLAN Main ac(80M) CH155 0.17 9.30 4.72 0.60 1.111 82 0.014

WWAN

Main

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B2 CH9538	Top side	0.664	-0.91	-4.20	-0.28	1.849	96.8	0.026	SPLSR<0.04,
WLAN Main ac(20M) CH136		1.185	-1.74	5.44	-0.44	1.047	70.0	0.020	Not required
		-		_		_			
-									
Section 1									

WWAN Main

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SPLSR WCDMA B2 & WLAN Aux

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Conditions	Position	SAR Coordinates (cm) ΣSAR Value		Peak Location	on CDI CD	Simultaneous			
Conditions	Position	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WCDMA B2	Back side	0.941	9.30	-3.45	-0.10	1.287	203.8	0.007	SPLSR<0.04,
WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	1.207	203.6	0.007	Not required

Aux



WWAN

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
WCDMA B2 CH9538	Top side	0.664	-0.91	-4.20	-0.28	0.689	28.3	0.020	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.089	20.3	0.020	Not required



WWAN Aux

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SPLSR WCDMA B2 & Transceiver

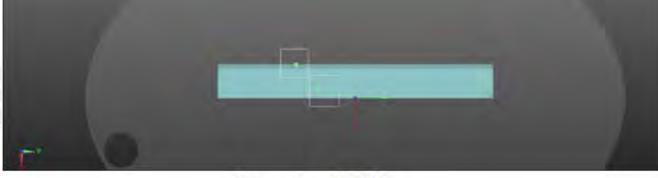
		SAR	Coor	dinates ((cm)	ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WCDMA B2	Back side	0.941	9.30	-3.45	-0.10	1.561	73.3	0.027	SPLSR<0.04,
Transceiver	back slue	0.62	13.00	-9.78	-0.17	1.501	73.3	0.027	Not required



Transcever

WWAN

Conditions	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	POSITION	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
WCDMA B2 CH9538	Top side	0.664	-0.91	-4.20	-0.28	1.002	34.6	0.029	SPLSR<0.04,
Transceiver	rop side	0.338	-3.52	-6.46	-0.48	1.002	34.0	0.029	Not required



Transceiver WWAN

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SPLSR WLAN Main & WLAN Aux

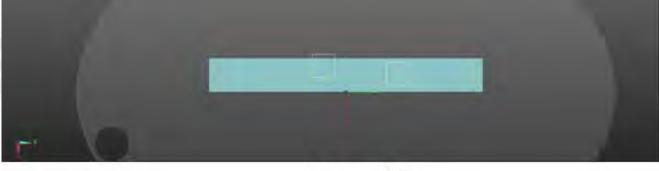
	Conditions	SAR Position Value		Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
1	WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
	WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	0.510	240.3	0.002	Not required





Main

			_		IVICALI				
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	00.9	0.010	Not required



Main Aux

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SPLSR WLAN Main & Transceiver

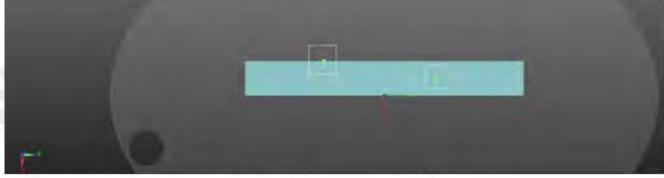
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
	. comen	(W/kg)	Х	У	Z	(W/kg)	Distance	0. 20.1	SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	Dack side	0.482	8.92	-12.68	-0.30	0.032	174.3	0.003	Not required



Transceiver

Main

0 1111		SAR Value		dinates	(cm)	ΣSAR	Peak Location	001.00	Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	120.3	0.002	Not required



Transceiver

Main

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SPLSR WLAN Aux & Transceiver

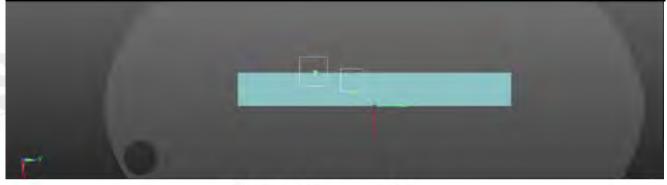
Conditions	Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/kg)	Distance		SAR Test
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver	Dack Side	0.482	8.92	-12.68	-0.30	0.020	174.3	0.004	Not required





Transceiver

Conditions Po		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	rop side	0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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WCDMA Band IV + 5GHz WLAN MIMO + Transceiver

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	No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
			Back side	0	0.944	0.17	0.346	0.62	2.08	Analyzed as below
	6		Top side	0	0.871	1.185	0.025	0.338	2.419	Analyzed as below
	18	WCDMA B4	Bottom side	0	0.032	0.031	1.487	0.008	1.558	ΣSAR<1.6, Not required
			Left side	0	0.027	0.025	0.06	0.014	0.126	ΣSAR<1.6, Not required
			Right side	0	0.014	0.039	0.021	0.003	0.077	ΣSAR<1.6, Not required

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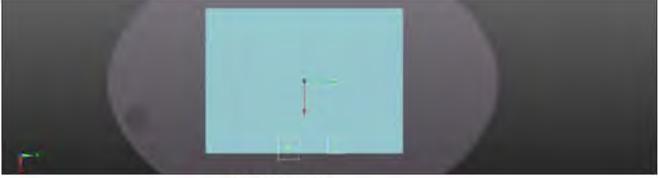
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SPLSR WCDMA B4 & WLAN Main

Conditions	Position	SAR Value	Coord	dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation SPLSR		Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B4	Back side	0.944	9.75	-2.40	-0.10	1.114	71.7	0.016	SPLSR<0.04,
WLAN Main ac(80M) CH155		0.17	9.30	4.72	0.60	1.114	71.7	0.016	Not required
						_			



WWAN Main

Conditions	SAR Position Value		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B4 CH1412	Top side	0.871	-1.05	-3.04	-0.25	2.056	85.1	0.035	SPLSR<0.04,
WLAN Main ac(20M) CH136		1.185	-1.74	5.44	-0.44	2.050	00.1	0.035	Not required
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WWAN

Main

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SPLSR WCDMA B4 & WLAN Aux

	SIX VVODIVI		_, ,							
			SAR	Coor	Coordinates (d		ΣSAR	Peak Location	CDLCD	Simultaneous
C	Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
W	VCDMA B4	Back side	0.944	9.75	-2.40	-0.10	1.29	211.3	0.007	SPLSR<0.04,
	WLAN Aux a CH52	back side	0.346	-10.20	-9.32	0.61	1.29	211.3	0.007	Not required

Aux



WWAN

	Conditions	SAR Position Value		Coor	dinates	(cm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
	Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
	WCDMA B4 CH1412	Top side	0.871	-1.05	-3.04	-0.25	0.896	21.9	0.039	SPLSR<0.04,
	WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.890	21.9	0.039	Not required
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	T	- 4								

WWAN Aux

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SPLSR WCDMA B4 & Transceiver

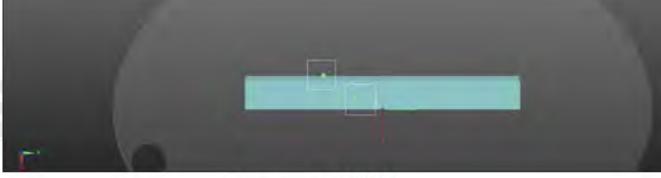
Conditions Po	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	POSITION	(W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
WCDMA B4	Back side	0.944	9.75	-2.40	-0.10	1.564	80.6	0.024	SPLSR<0.04,
Transceiver	back side	0.62	13.00	-9.78	-0.17	1.504	80.0	0.024	Not required



Transcever

WWAN

П										
	Conditions F	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
	Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
	WCDMA B4 CH1412	Top side	0.871	-1.05	-3.04	-0.25	1.209	42.3	0.031	SPLSR<0.04,
	Transceiver	Top side	0.338	-3.52	-6.46	-0.48	1.209	42.3	0.031	Not required



Transceiver WWAN

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SPLSR WLAN Main & WLAN Aux

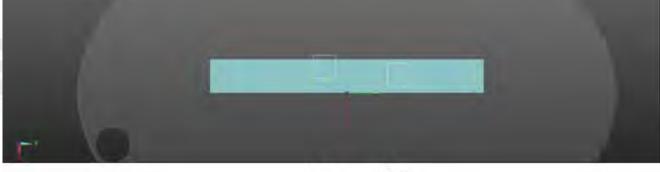
	Conditions	Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
1	WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
	WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	0.510	240.3	0.002	Not required





Main

			_		IVICALI				
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	00.9	0.010	Not required



Main Aux

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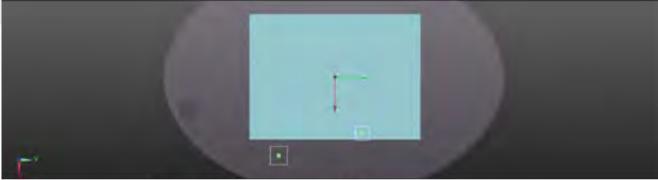
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SPLSR WLAN Main & Transceiver

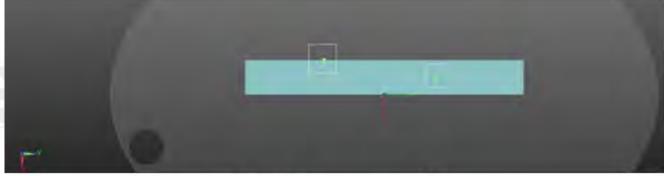
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
00114111101110	. comon	(W/kg)	Х	У	Z	(W/kg)	Distance	0. 20.1	SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	back side	0.482	8.92	-12.68	-0.30	0.032	174.5	0.003	Not required



Transceiver

Main

	Conditions Posit		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Con	ditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
	AN Aux H 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Tran	sceiver	rop side	0.338	-3.52	-6.46	-0.48	0.303	120.3	0.002	Not required



Transceiver

Main

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SPLSR WLAN Aux & Transceiver

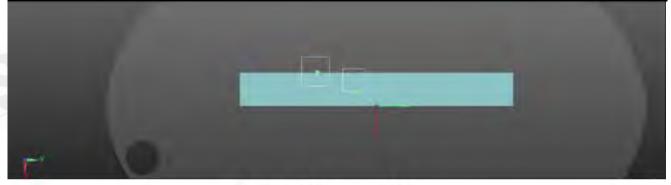
Conditions	Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance		SAR Test
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver	Dack Side	0.482	8.92	-12.68	-0.30	0.020	174.3	0.004	Not required





Transceiver

Conditions Position		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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WCDMA Band V + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.377	0.17	0.346	0.62	1.513	ΣSAR<1.6, Not required
		Top side	0	0.363	1.185	0.025	0.338	1.911	Analyzed as below
19	WCDMA B5	Bottom side	0	0.037	0.031	1.487	0.008	1.563	ΣSAR<1.6, Not required
		Left side	0	0.01	0.025	0.06	0.014	0.109	ΣSAR<1.6, Not required
		Right side	0	0.006	0.039	0.021	0.003	0.069	ΣSAR<1.6, Not required

SPLSR WCDMA B5 & WLAN Main

SELSK WCDIVI	T DJ Q W	LAN Man							
Conditions	Conditions Position		SAR Coordinates (c			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B5 CH4183	Top side	0.363	-1.34	-1.63	-0.43	1.548	70.8	0.027	SPLSR<0.04,
WLAN Main ac(20M) CH136		1.185	-1.74	5.44	-0.44	1.540	70.0	0.027	Not required
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WWAN Main

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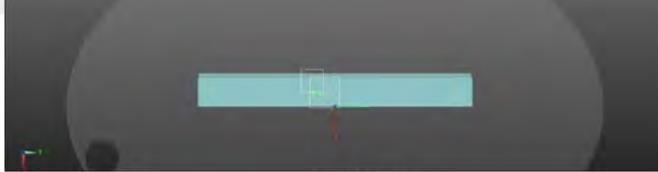
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SPLSR WCDMA B5 & WLAN Aux

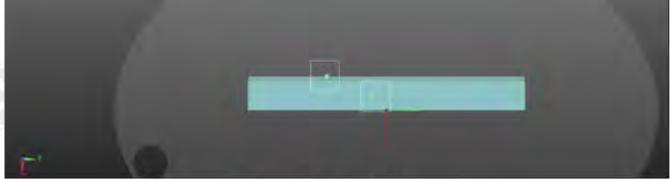
Conditions	SAR		Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WCDMA B5 CH4183	Top side	0.363	-1.34	-1.63	-0.43	0.388	23.2	0.010	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.300	23.2	0.010	Not required



Aux WWAN

SPLSR WCDMA B5 & Transceiver

SI ESIK WUDIVII		1113661761							
Conditions	Position	SAR	Coor	dinates	(cm)	ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WCDMA B5 CH4183	Top side	0.363	-1.34	-1.63	-0.43	0.701	53	0.011	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.701	JJ	0.011	Not required



Transceiver WWAN

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SPLSR WLAN Main & WLAN Aux

	Conditions Position	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
			(W/kg)	Х	у	Z				SAR Test
a	WLAN Main c(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
	WLAN Aux a CH 136	Top side			1.77	1.21	00.9	0.010	Not required	



Aux Main

SPLSR WLAN Main & Transceiver

SPLSR WLAN I	viain & ira	ansceive	<u> </u>						
. :	;	SAR	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0 363	120.3	0.002	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.363	120.3	0.002	Not required
				-					

Transceiver

Main

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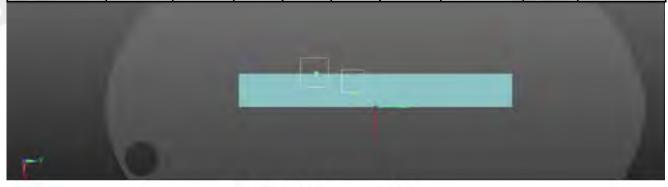
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SPLSR WLAN Aux & Transceiver

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	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions			х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side –	0.338	-3.52	-6.46	-0.48	0.303	51.1	0.004	Not required



Transceiver

Aux

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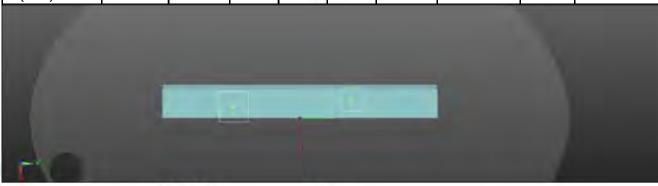
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CDMA / EVDO BCO + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.369	0.17	0.346	0.62	1.505	ΣSAR<1.6, Not required
		Top side 0 0.338		0.338	1.185	0.025	0.338	1.886	Analyzed as below
20	EVDO BCO	Bottom side	0	0.035	0.031	1.487	0.008	1.561	Analyzed as below
		Left side	0	0.003	0.025	0.06	0.014	0.102	ΣSAR<1.6, Not required
		Right side	0	0.005	0.039	0.021	0.003	0.068	ΣSAR<1.6, Not required

SPLSR CDMA / EVDO BC0 & WLAN Main

Conditions I	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z				SAR Test
EVDO BC0 CH384	Top side	0.338	-1.20	-7.36	-0.41	1.523	128.1	0.015	SPLSR<0.04,
WLAN Main ac(20M) CH136	·	pp side 1.185 -1		5.44	-0.44	1.023	120.1	0.015	Not required



WWAN

Main

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SPLSR CDMA / EVDO BCO & WLAN Aux

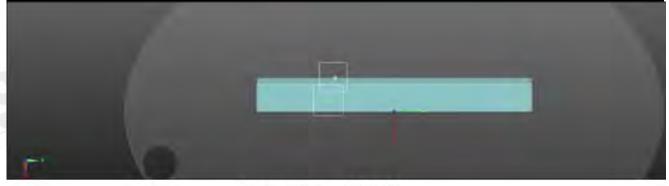
Conditions	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous
		Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
EVDO BC0 CH384	Top side -	0.338	-1.20	-7.36	-0.41	0.363	E 4 O	0.004	SPLSR<0.04,
WLAN Aux a CH 136		0.025	-1.50	-2.34	1.77		54.8	0.004	Not required



WWAN Aux

SPLSR CDMA / EVDO BC0 & Transceiver

Conditions P	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous
		Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	Transmission SAR Test
EVDO BC0 CH384	Top side	0.338	-1.20	-7.36	-0.41	0 474	24.0	0.022	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.676	24.9	0.022	Not required



Transceiver WWAN

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SPLSR WLAN Main & WLAN Aux

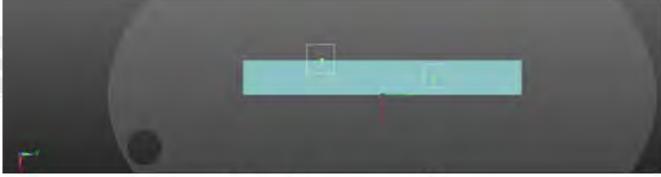
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z				SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	00.7	0.010	Not required



Aux Main

SPLSR WLAN Main & Transceiver

SELSK WLAIN	FLSK WLAN Wall & Hansceivel											
	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	051.05	Simultaneous			
Conditions		Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test			
WLAN Aux a CH 136	Ton side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,			
Transceiver	Top side -	0.338	-3.52	-6.46	-0.48		120.3	0.002	Not required			



Transceiver

Main

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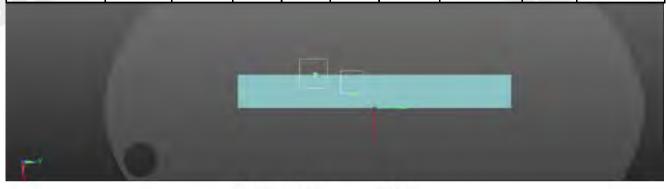
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SPLSR WLAN Aux & Transceiver

	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions		Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	51.1	0.004	Not required



Transceiver

Aux

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CDMA / EVDO BC1 + 5GHz WLAN MIMO + Transceiver

	No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR			
			Back side	0	0.691	0.17	0.346	0.62	1.827	Analyzed as below			
. (6	7	Top side	0	0.581	1.185	0.025	0.338	2.129	Analyzed as below			
	21	EVDO BC1	Bottom side	0	0.049	0.031	1.487	0.008	1.575	ΣSAR<1.6, Not required			
			Left side	0	0.021	0.025	0.06	0.014	0.12	ΣSAR<1.6, Not required			
			Right side	0	0.029	0.039	0.021	0.003	0.092	ΣSAR<1.6, Not required			

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SPLSR CDMA / EVDO BC1 & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coord	dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation SI	SPLSR	Simultaneous Transmission
			х	у	Z		Distance (mm)		SAR Test
EVDO BC1 CH25	Pack side	0.691	9.24	-3.66	-0.19	0.861	84.2	0.009	SPLSR<0.04,
WLAN Main ac(80M) CH155	WLAN Main Back side	0.17	9.30	4.72	0.60	0.601	04.2	0.009	Not required



WWAN Main

	Conditions	Position	(W/kg) I	Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test	
	EVDO BC1 CH25	Top side	0.581	-0.76	-3.95	-0.36	1.766	94.4	0.025	SPLSR<0.04,
í	WLAN Main ac(20M) CH136		1.185	-1.74	5.44	-0.44				Not required



WWAN

Main

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SPLSR CDMA / EVDO BC1 & WLAN Aux

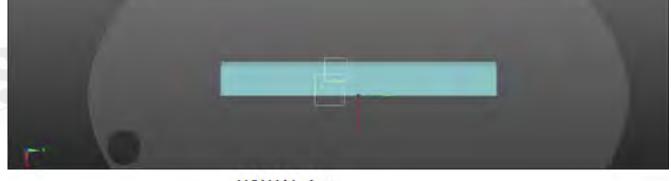
STEER OBWITT EVBO BOT & WEITT MAX										
	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location	opi op	Simultaneous	
Conditions			Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test	
EVDO BC1 CH25	Back side	0.691	9.24	-3.66	-0.19	1.037	202.6	0.005	SPLSR<0.04,	
WLAN Aux a CH52		0.346	-10.20	-9.32	0.61		202.0	0.005	Not required	





WWAN

Conditions	tions Position	Dosition	Docition		SAR	Coor	Coordinates (cm)		ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions		Position Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test			
EVDO BC1 CH25	Top side	0.581	-0.76	-3.95	-0.36	0.606	27.7	0.017	SPLSR<0.04,			
WLAN Aux a CH 136		0.025	-1.50	-2.34	1.77				Not required			



WWAN Aux

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SDI SD CDMA / EVDO RC1 & Transceiver

SPLSR CDMA / EVDO BCT & Transceiver									
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	Position		х	у	Z	(W/kg)	Separation Distance	0. 20	SAR Test
EVDO BC1 CH25	Back side -	0.691	9.24	-3.66	-0.19	1.311	71.8	0.021	SPLSR<0.04,
Transceiver	Back Side	0.62	13.00	-9.78	-0.17	1.311	71.0	0.021	Not required
T						-			

Transceiver WWAN

Conditions	Position	SAR Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission	
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SI LSIK	SAR Test
EVDO BC1 CH25	Top side	0.581	-0.76	-3.95	-0.36	0.919	37.3	0.024	SPLSR<0.04, Not required
Transceiver		0.338	-3.52	-6.46	-0.48				
				1					
				-					
T	U					-			- 6

Transceiver WWAN

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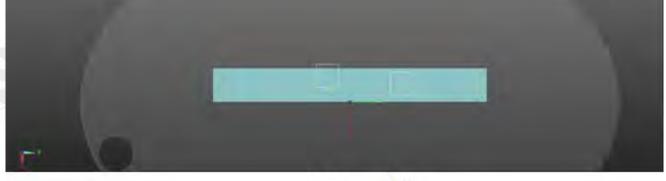
SPLSR WLAN Main & WLAN Aux

1										
	Conditions	Position	SAR Value		dinates (cm)		ΣSAR (M/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
	WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
	WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	0.510	240.3	0.002	Not required

Aux



			_		IVICALI				
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136		0.025	-1.50	-2.34	1.77				Not required



Main Aux

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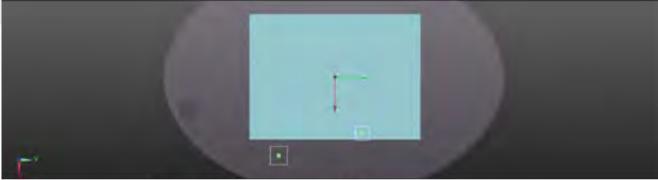
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SPLSR WLAN Main & Transceiver

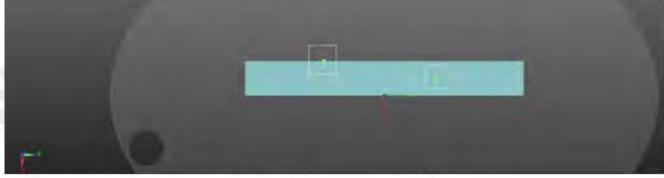
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/kg)	Separation Distance	0. 20.1	SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	Dack side	0.482	8.92	-12.68	-0.30	0.032	174.3	0.003	Not required



Transceiver

Main

		SAR	Coordinates (cm)		ΣSAR	Peak Location		Simultaneous	
Conditions	Conditions Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	120.3	0.002	Not required



Transceiver

Main

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SPLSR WLAN Aux & Transceiver

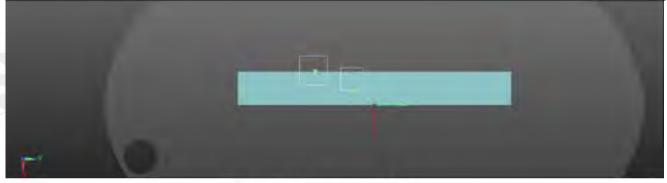
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Conditions	Position	SAR Value	Coor	dinates (cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z				SAR Test
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver	Dack Side	0.482	8.92	-12.68	-0.30	0.026	174.3	0.004	Not required

Aux



Transceiver

		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
	Position	Position Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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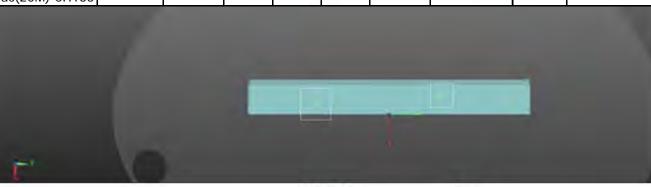
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CDMA / EVDO BC10 + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR				
		Back side	0	0.364	0.17	0.346	0.62	1.5	ΣSAR<1.6, Not required				
(Top side	0	0.355	1.185	0.025	0.338	1.903	Analyzed as below				
22	EVDO BC10	Bottom side	0	0.045	0.031	1.487	0.008	1.571	ΣSAR<1.6, Not required				
		Left side	0	0.004	0.025	0.06	0.014	0.103	ΣSAR<1.6, Not required				
		Right side	0	0.002	0.039	0.021	0.003	0.065	ΣSAR<1.6, Not required				

SPLSR CDMA / EVDO BC10 & WLAN Main

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z		Distance (mm)		SAR Test
EVDO BC10 CH684	Top side	0.355	-1.05	-7.80	-0.39	1.54	132.6	0.014	SPLSR<0.04,
WLAN Main ac(20M) CH13		1.185	-1.74	5.44	-0.44	1.54	132.0	0.014	Not required



WWAN

Main

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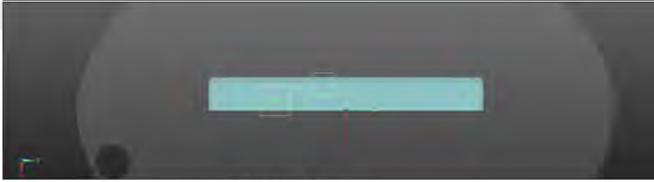
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SPLSR CDMA / EVDO BC10 & WLAN Aux

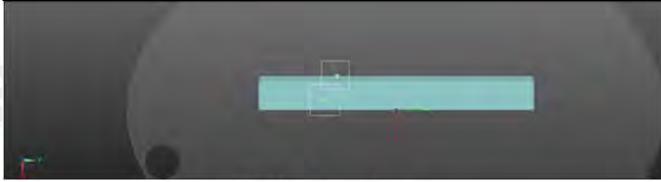
	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
EVDO BC10 CH684	Top olds	0.355	-1.05	-7.80	-0.39	0.38	58.9	0.004	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.38	36.9	0.004	Not required



WWAN Aux

SPLSR CDMA / EVDO BC10 & Transceiver

		Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation Distance	SPLSR	Simultaneous
		FUSILIUII	(W/kg)	Х	y z (W/kg)		SPLSK		Transmission SAR Test	
	EVDO BC10 CH684	Top side	0.355	-1.05	-7.80	-0.39	0.693	28.1	0.021	SPLSR<0.04,
	Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.093	20.1	0.021	Not required



WWAN Transceiver

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SPLSR WLAN Main & WLAN Aux

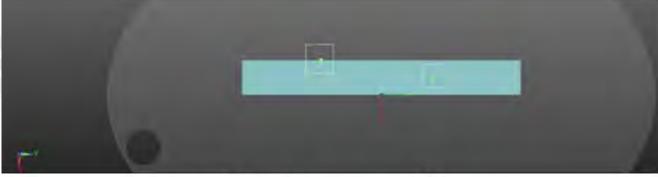
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z				SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	00.7	0.010	Not required



Aux Main

SPLSR WLAN Main & Transceiver

SPLSK WLAIN	SPLSK WLAIN Wall & Italisceivei											
	Conditions Position	SAR	Coor	Coordinates (cm)			Peak Location	001.00	Simultaneous			
Conditions		Value (W/kg)	Х	у	Z	ΣSAR (W/kg)	Separation Distance	SPLSR	Transmission SAR Test			
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,			
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	120.3	0.002	Not required			



Transceiver

Main

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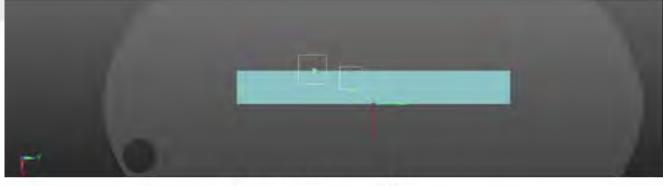
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SPLSR WLAN Aux & Transceiver

Conditions	Position	SAR Value (W/kg)	Coor	Coordinates (cm)			Peak Location		Simultaneous
			х	у	Z	ΣSAR (W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	51.1	0.004	Not required



Transceiver

Aux

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LTE FDD Band II + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR			
		Back side	0	1.182	0.17	0.346	0.62	2.318	Analyzed as below			
e		Top side	0	0.914	1.185	0.025	0.338	2.462	Analyzed as below			
23	LTE B2	Bottom side	0	0.045	0.031	1.487	0.008	1.571	ΣSAR<1.6, Not required			
		Left side	0	0.011	0.025	0.06	0.014	0.11	ΣSAR<1.6, Not required			
		Right side	0	0.024	0.039	0.021	0.003	0.087	ΣSAR<1.6, Not required			

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SPLSR LTE Band 2 & WLAN Main

Conditions Position	SAR Value	Coord	dinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission	
	(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test	
LTE B2 CH19100	Dook side	1.182	9.46	-3.51	-0.19	1 252	82.7	0.010	SPLSR<0.04,
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	1.352	82.1	0.019	Not required



WWAN Main

Conditions Position	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
	TOSITION	(W/kg)	х	у	Z	(W/kg)	Distance (mm)	S. LOIK	SAR Test
LTE B2 CH19100	Top side	0.914	-0.75	-3.84	-0.32	2.099	93.3	0.033	SPLSR<0.04,
WLAN Main ac(20M) CH136	·	1.185	-1.74	5.44	-0.44	2.099	73.3	0.033	Not required



WWAN

Main

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SPLSR LTE Band 2 & WLAN Aux

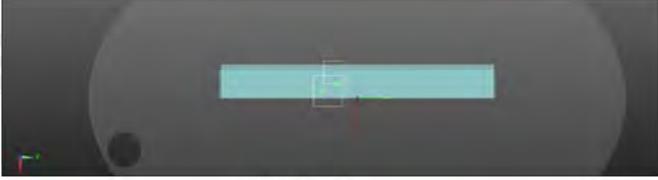
Conditions	Position	Position SAR Coordinates (cm) ΣSAR (M/(cg))	Peak Location	SPLSR	Simultaneous Transmission				
Conditions		(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
LTE B2 CH19100	Back side	1.182	9.46	-3.51	-0.19	1.528	82.7	0.023	SPLSR<0.04,
WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	1.028	02.7	0.023	Not required

Aux



WWAN

Conditions	Position	SAR Coordina Position Value	dinates	(cm)	ΣSAR	Peak Location	CDI CD	Simultaneous	
Conditions	POSITION	(W/kg)	Х	у	(W/kg) Separation Distance	SPLSR	Transmission SAR Test		
LTE B2 CH19100	Top side	0.914	-0.75	-3.84	-0.32	0.939	26.8	0.034	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.737	20.0	0.034	Not required



WWAN Aux

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3	SPLSR LIE Ba	na 2 & ira	ansceiver							
	Conditions	Position	SAR Value	Coord	dinates ((cm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
	Conditions	FOSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	JF LJK	SAR Test
	LTE B2 CH19100	Back side	1.182	9.46	-3.51	-0.19	1.802	72	0.034	SPLSR<0.04,
	Transceiver	Dack side	0.62	13.00	-9.78	-0.17	1.002	12	0.034	Not required
						4 =				
	100									

Transcever WWAN

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	1 03111011	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	31 ESIX	SAR Test
LTE B2 CH19100	Top side	0.914	-0.75	-3.84	-0.32	1.252	38.2	0.037	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	1.232	30.2	0.037	Not required
				-					
1									

Transceiver WWAN

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SPLSR WLAN Main & WLAN Aux

Conditions	Position			dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
WLAN Aux a CH52	Dack Sluc	0.346	-10.20	-9.32	0.61	0.510	240.3	0.002	Not required

Aux



			_		IVICALI				
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	00.9	0.010	Not required



Main Aux

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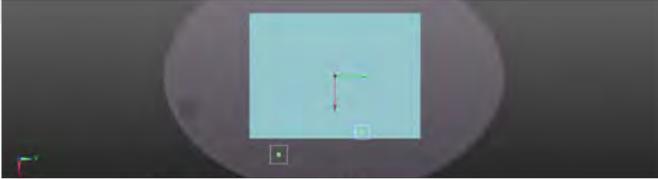
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SPLSR WLAN Main & Transceiver

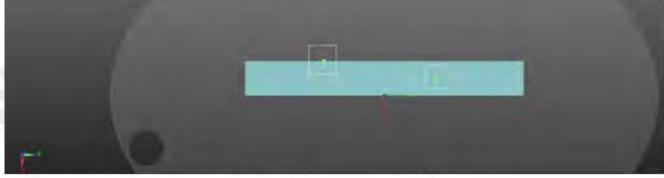
Conditions	Position	SAR Value	Coordinates (cm)		ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission	
001101110110	, comen	(W/kg)	х	у	Z	(W/kg)	Distance	0. 20.1	SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	back side	0.482	8.92	-12.68	-0.30	0.032	174.3	0.003	Not required



Transceiver

Main

Conditions Position	SAR	Coor	dinates	(cm)	ΣSAR	Peak Location	001.00	Simultaneous	
Conditions	Position	tion Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	120.3	0.002	Not required



Transceiver

Main

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SPLSR WLAN Aux & Transceiver

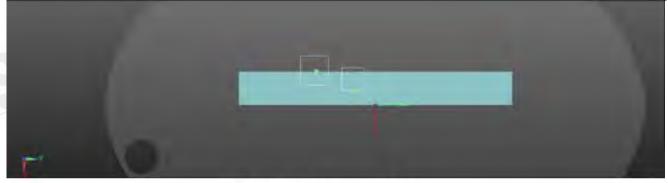
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/kg)	Distance	O. LOIK	SAR Test
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver	back side	0.482	8.92	-12.68	-0.30	0.020	194.5	0.004	Not required

Aux



Transceiver

	Conditions Position Value		Coor	dinates	(cm)	ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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LTE FDD Band IV + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR			
		Back side	0	0.797	0.17	0.346	0.62	1.933	Analyzed as below			
C		Top side	0	0.983	1.185	0.025	0.338	2.531	Analyzed as below			
24	LTE B4	Bottom side	0	0.031	0.031	1.487	0.008	1.557	ΣSAR<1.6, Not required			
		Left side	0	0.014	0.025	0.06	0.014	0.113	ΣSAR<1.6, Not required			
		Right side	0	0.012	0.039	0.021	0.003	0.075	ΣSAR<1.6, Not required			

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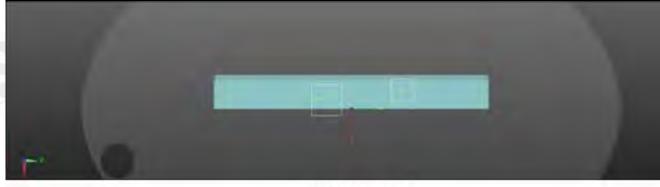
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SPI SR LTF Rand 4 & WI AN Main

	Conditions	Position	SAR Value	Coor	dinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
	LTE B4 CH20050	Back side	0.797	9.75	-3.06	-0.20	0.967	78.3	0.012	SPLSR<0.04,
	WLAN Main ac(80M) CH155		0.17	9.30	4.72	0.60	0.707	70.5	0.012	Not required
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WWAN Main

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B4 CH20050	Top side	0.983	-1.06	-3.34	-0.35	2.168	88.1	0.036	SPLSR<0.04,
WLAN Main ac(20M) CH136	•	1.185	-1.74	5.44	-0.44	2.100	00.1	0.030	Not required



WWAN Main

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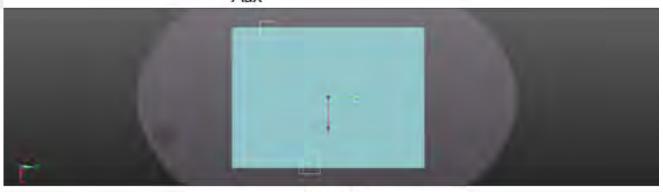


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SPLSR LTF Band 4 & WLAN Aux

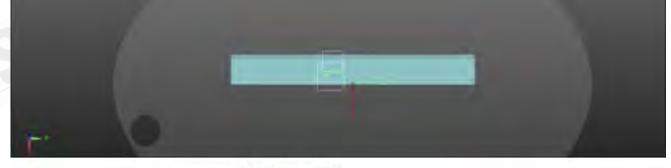
- 2	JI LOIN LIL Du		-, ,							
	Conditions	Position	SAR	Coord	dinates ((cm)	ΣSAR	Peak Location	SPLSR	Simultaneous
	Conditions	POSITION	(W/kg)	/alue V/kg) x y z	(W/kg)	Separation Distance	SPLSK	Transmission SAR Test		
	LTE B4 CH20050	Back side	0.797	9.75	-3.06	-0.20	1.143	209.2	0.006	SPLSR<0.04,
	WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	1.143	209.2	0.000	Not required





WWAN

Conditions	Conditions Position Val	SAR	Coor	dinates	(cm)	ΣSAR	Peak Location Separation Distance	CDI CD	Simultaneous
Conditions	POSITION	Value (W/kg)	Х	у	Z	(W/kg)		SPLSR	Transmission SAR Test
LTE B4 CH20050	Top side	0.983	-1.06	-3.34	-0.35	1 000	26.9	0.038	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.008	20.9	0.038	Not required



WWAN Aux

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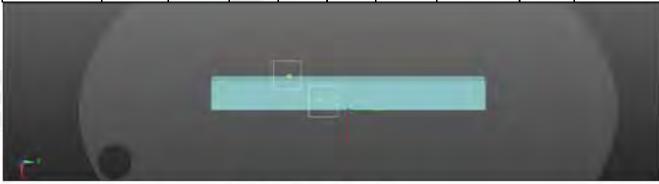
SPLSR LTE Band 4 & Transceiver

Conditions	Docition	SAR	Coor	dinates ((cm)	ΣSAR	Peak Location	SPLSR	Simultaneous
Conditions	Position Value (W/kg		Х	у	Z	(W/kg)	Separation Distance	SPLSK	Transmission SAR Test
LTE B4 CH20050	Back side	0.797	9.75	-3.06	-0.20	1.417	74.6	0.023	SPLSR<0.04,
Transceiver	back side	0.62	13.00	-9.78	-0.17	1.417	74.0	0.023	Not required



Transceiver WWAN

Conditions	SAR onditions Position Value		Coor	dinates	(cm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	POSITION	(W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
LTE B4 CH20050	Top side	0.983	-1.06	-3.34	-0.35	1.321	39.8	0.038	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	1.321	39.0	0.036	Not required



Transceiver WWAN

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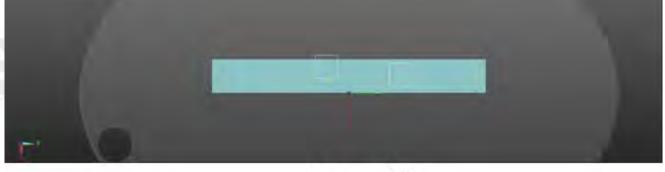
SPLSR WLAN Main & WLAN Aux

Со	Conditions Position Val	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission	
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
	AN Main OM) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
	LAN Aux CH52	Dack Side	0.346	-10.20	-9.32	0.61	0.510	240.3	0.002	Not required





			_		IVICALI				
Conditions	Position SAR Value (W/ka)		Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	rop side	0.025	-1.50	-2.34	1.77	1.21	80.9	0.010	Not required



Main Aux

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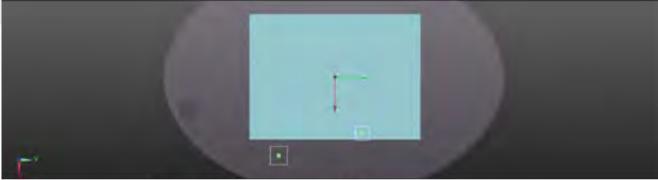
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SPLSR WLAN Main & Transceiver

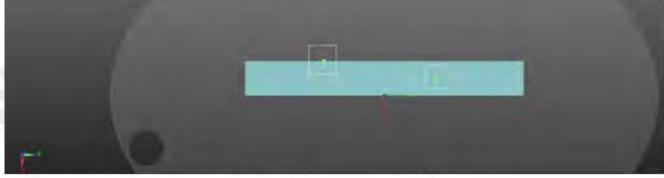
Conditions Position	Position	SAR Value	Coordinates (cm)		ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission	
001141110110		(W/kg)	Х	у	Z	(W/kg)	Distance	OI ZOK	SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	back side	0.482	8.92	-12.68	-0.30	0.032	174.5	0.003	Not required



Transceiver

Main

0 1111	Docition	SAR	Coor	dinates	(cm)	ΣSAR	Peak Location	CDLCD	Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	120.5	0.002	Not required



Transceiver

Main

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SPLSR WLAN Aux & Transceiver

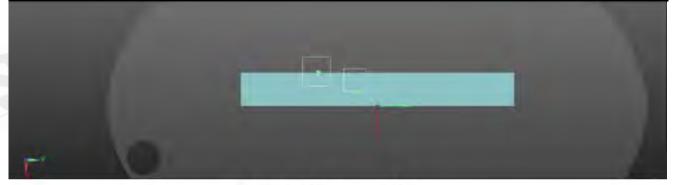
or East WEATT HAX & Transcottor										
Conditions	Position	SAR Value (W/kg)	Coor	dinates (cm)	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission	
C 0.1. 0 .11.0			х	у	Z				SAR Test	
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,	
Transceiver	Dack Side	0.482	8.92	-12.68	-0.30	0.026	174.3	0.004	Not required	

Aux



Transceiver

0	Position	SAR	Coor	dinates	(cm)	ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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LTE FDD Band V + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR				
		Back side	0	0.49	0.17	0.346	0.62	1.626	Analyzed as below				
		Top side	0	0.234	1.185	0.025	0.338	1.782	Analyzed as below				
25	LTE B5	Bottom side	0	0.041	0.031	1.487	0.008	1.567	ΣSAR<1.6, Not required				
		Left side	0	0.02	0.025	0.06	0.014	0.119	ΣSAR<1.6, Not required				
		Right side	0	0.012	0.039	0.021	0.003	0.075	ΣSAR<1.6, Not required				

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SPLSR LTE Band 5 & WLAN Main

Conditions	Position	SAR Value	Coor	Coordinates (cm)			Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B5 CH20600	Dook side	0.49	9.31	-3.51	-0.25	0.44	02.7	0.006	SPLSR<0.04,
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.66	82.7	0.006	Not required



WWAN Main

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B5 CH20600	Top side	0.234	-1.35	-1.63	-0.44	1.419	70.8	0.024	SPLSR<0.04,
WLAN Main ac(20M) CH136		1.185	-1.74	5.44	-0.44	1.419	70.0	0.024	Not required



WWAN Main

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SPLSR LTF Band 5 & WLAN Aux

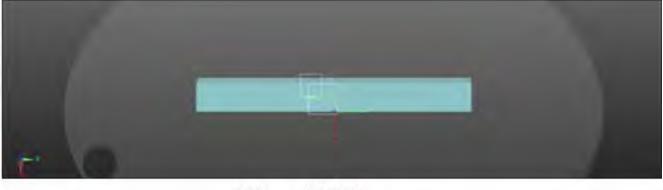
<u> </u>	ESIX ETE BAING O & WESTIV NAV											
Conditions	Position		Coord	dinates ((cm)	ΣSAR	Peak Location Separation Distance	SPLSR	Simultaneous			
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)			Transmission SAR Test			
LTE B5 CH20600	Back side	0.49	9.31	-3.51	-0.25	0.836	203.7	0.004	SPLSR<0.04,			
WLAN Aux a CH52	back side	0.346	-10.20	-9.32	0.61	0.030	203.7	0.004	Not required			

Aux



WWAN

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
LTE B5 CH20600	Top side	0.234	-1.35	-1.63	-0.44	0.259	23.2	0.006	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.259	23.2	0.006	Not required



WWAN Aux

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SPLSR LTF Band 5 & Transceiver

ĺ		SAR		Coor	dinates ((cm)	ΣSAR	Peak Location		Simultaneous
	Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
	LTE B5 CH20600	Dools oide	0.49	9.31	-3.51	-0.25	1 11	72.8	0.016	SPLSR<0.04,
	Transceiver	Back side	0.62	13.00	-9.78	-0.17	1.11	72.0	0.016	Not required
			10							



Transceiver WWAN

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test
LTE B5 CH20600	Top side	0.234	-1.35	-1.63	-0.44	0.572	53	0.008	SPLSR<0.04,
Transceiver	rop side	0.338	-3.52	-6.46	-0.48	0.572	55	0.008	Not required



Transceiver WWAN

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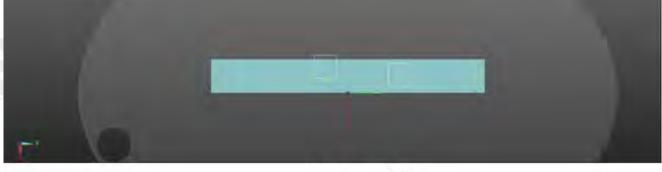
SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61	0.510	240.3	0.002	Not required

Aux



			_		IVICALI				
Conditions	Position	SAR Value	Coor	Coordinates (cm)			Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	00.9	0.010	Not required



Main Aux

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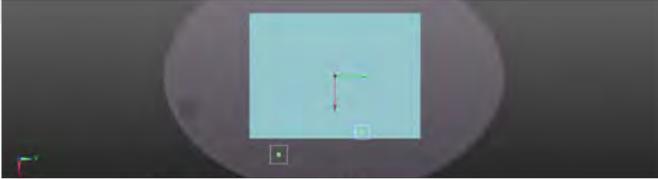
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SPLSR WLAN Main & Transceiver

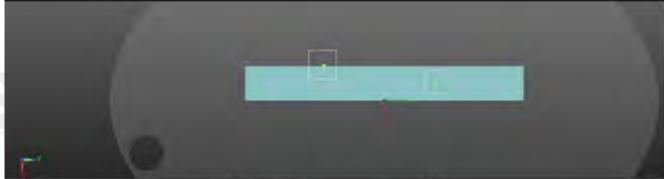
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
001101110110	, comen	(W/kg)	х	у	Z	(W/kg)	Separation Distance	0. 20.1	SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	back side	0.482	8.92	-12.68	-0.30	0.032	174.3	0.003	Not required



Transceiver

Main

Conditions	Docition	SAR	Coordinates (cm)			ΣSAR	Peak Location	SDI SR	Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48			0.002	Not required



Transceiver

Main

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SPLSR WLAN Aux & Transceiver

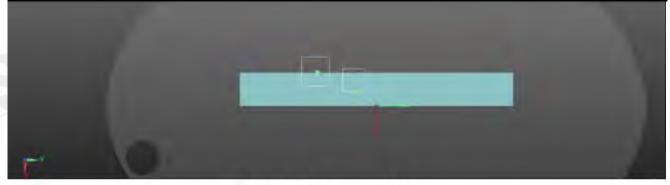
Conditions	Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/kg)	Distance		SAR Test
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver	Dack Side	0.482	8.92	-12.68	-0.30	0.020	174.3	0.004	Not required

Aux



Transceiver

	Position	SAR Position Value		Coordinates (cm)			Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	ΣSAR (W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver		0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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LTE FDD Band XIII + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.499	0.17	0.346	0.62	1.635	Analyzed as below
6		Top side	0	0.303	1.185	0.025	0.338	1.851	Analyzed as below
26	LTE B13	Bottom side	0	0.016	0.031	1.487	0.008	1.542	ΣSAR<1.6, Not required
		Left side	0	0.027	0.025	0.06	0.014	0.126	ΣSAR<1.6, Not required
		Right side	0	0.006	0.039	0.021	0.003	0.069	ΣSAR<1.6, Not required

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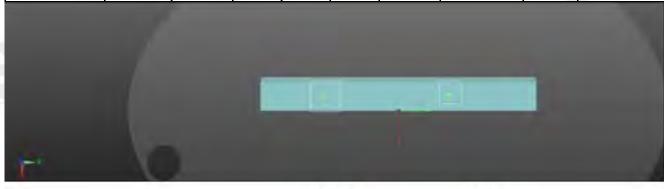
SPLSR LTE Band 13 & WLAN Main

Conditions	Position	SAR Value	Coor	dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z				SAR Test
LTE B13 CH23230	Back side	0.499	9.46	-3.50	-0.24	0.669	82.6	0.007	SPLSR<0.04,
WLAN Main ac(80M) CH155		0.17	9.30	4.72	0.60	0.009	82.0	0.007	Not required



WWAN Main

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z				SAR Test
LTE B13 CH23230	Tan aida	0.303	-1.34	-8.06	-0.39	1.488	135.1	0.013	SPLSR<0.04,
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.400	133.1	0.013	Not required



WWAN

Main

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prosecuted to the fullest extent of the law.



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SPI SR LTF Rand 13 & WI AN Aux

- 2	TESK ETE Build 15 & WEAR AND											
	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission		
	Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSK	SAR Test		
	LTE B13 CH23230	Back side	0.499	9.46	-3.50	-0.24	0.845	205.2	0.004	SPLSR<0.04,		
	WLAN Aux a CH52	Dack Side	0.346	-10.20	-9.32	0.61		200.2	0.004	Not required		

Aux



WWAN

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location Separation Distance	SPLSR	Simultaneous
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)			Transmission SAR Test
LTE B13 CH23230	Top side	0.303	-1.34	-8.06	-0.39	0.328	61.2	0.003	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77		01.2	0.003	Not required



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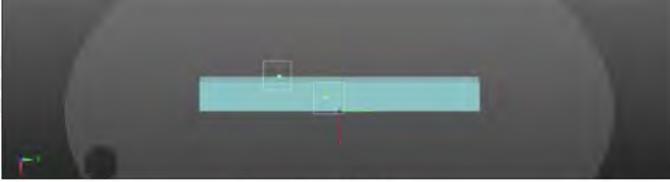
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SPI SR LTF Band 13 & Transceiver

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location	SPLSR	Simultaneous Transmission
Conditions	FOSITION	(W/kg)	Х	У	Z	(W/kg)	Separation Distance	3F L3K	SAR Test
LTE B13 CH23230	Back side	0.499	9.46	-3.50	-0.24	1.119	72.1	0.016	SPLSR<0.04,
Transceiver	Dack side	0.62	13.00	-9.78	-0.17	1.117	72.1	0.010	Not required
			г						
-				101					

Transceiver WWAN

0 1111		SAR Position Value		Coordinates (cm)			Peak Location	CDI CD	Simultaneous
Conditions	Position	(W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
LTE B13 CH23230	Top side	0.303	-1.34	-8.06	-0.39	0.641	53	0.010	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.041	55	0.010	Not required



Transceiver WWAN

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SPLSR WLAN Main & WLAN Aux

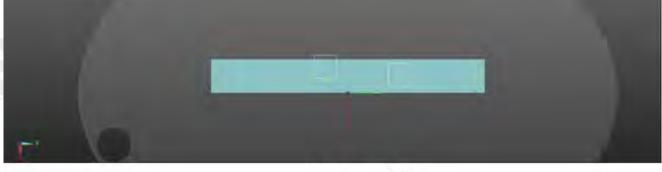
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main ac(80M) CH155	Pack side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.516	240.3	0.002	Not required





Main

				_		IVICIII				
	Conditions Position	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
				Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
	WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
	WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77				Not required



Main Aux

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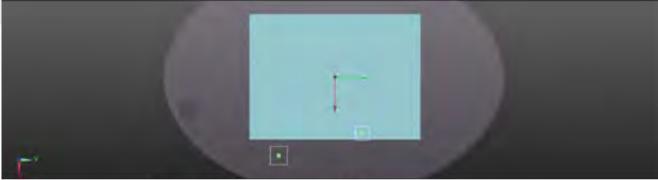
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SPLSR WLAN Main & Transceiver

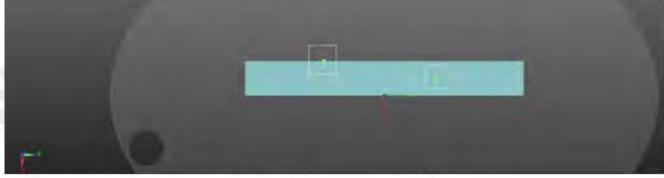
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	У	Z	(W/kg)	Distance	5. <u>2</u> 610	SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	back side	0.482 8.92		-12.68	-0.30	0.032	174.3	0.003	Not required



Transceiver

Main

	Conditions Position \	SAR	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions		Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side -	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Transceiver		0.338	-3.52	-6.46	-0.48			0.002	Not required



Transceiver

Main

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SPLSR WLAN Aux & Transceiver

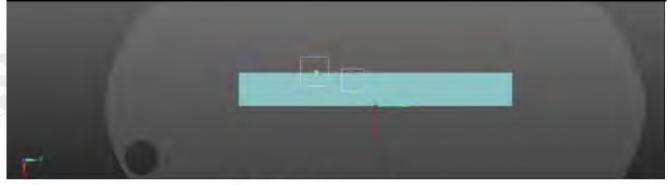
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
Conditions			х	У	Z	(W/kg)	Distance	o. Lon	SAR Test
WLAN Aux a CH52	Back side -	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver		0.482 8.92 -12.68 -0.30	0.020	174.3	0.004	Not required			





Transceiver

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions			х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48		31.1	0.004	Not required



Transceiver

Aux

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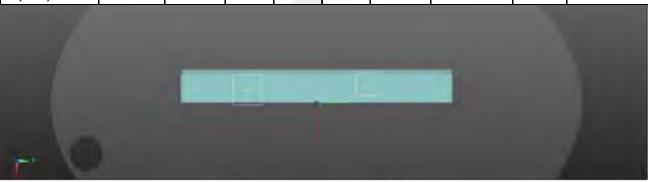
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LTE FDD Band XVII + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.438	0.17	0.346	0.62	1.574	ΣSAR<1.6, Not required
		Top side	0	0.359	1.185	0.025	0.338	1.907	Analyzed as below
27	LTE B17	Bottom side	0	0.048	0.031	1.487	0.008	1.574	ΣSAR<1.6, Not required
		Left side	0	0.049	0.025	0.06	0.014	0.148	ΣSAR<1.6, Not required
		Right side	0	0.015	0.039	0.021	0.003	0.078	ΣSAR<1.6, Not required

SPLSR LTE Band 17 & WLAN Main

Conditions	Position	SAR Value		(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission	
Conditions		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B17 CH23780	Top side -	0.359	-1.35	-7.60	-0.39	1.544	130.5	0.015	SPLSR<0.04,
WLAN Main ac(20M) CH136		1.185	-1.74	5.44	-0.44	1.344	130.5	0.015	Not required



WWAN

Main

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SPI SR LTE Rand 17 & WI AN Aux

Ì	Conditions Position	na i / & v	SAR	Coordinates (cm)			ΣSAR	Peak Location Separation	CDI CD	Simultaneous
	Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
	LTE B17 CH23780	Top side	0.359	-1.35	-7.60	-0.39	0.384	56.9	0.004	SPLSR<0.04, Not required
	WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.304			
							_			

WWAN Aux

SPLSR LTE Band 17 & Transceiver										
	Conditions	Position	SAR Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission	
	Conditions	1 Osition	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	0. 20.1	SAR Test
	LTE B17 CH23780	Top side	0.359	-1.35	-7.60	-0.39	0.697	24.5	0.024	SPLSR<0.04,
	Transceiver	100 3140	0.338	-3.52	-6.46	-0.48	0.077	21.0	0.021	Not required
										80
				-				_		-
	F									

WWAN Transceiver

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SPLSR WLAN Main & WLAN Aux

Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z				SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	60.9	0.016	Not required



Aux Main

SPLSR WLAN Main & Transceiver

	s	SAR	Coor	dinates	(cm)	ΣSAR	Peak Location	001.00	Simultaneous
Conditions	Position	Value (W/kg)	х	У	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	120.5	0.002	Not required
			-		_		_		
									The same

Transceiver

Main

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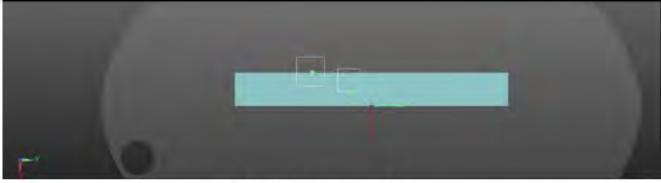
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SPLSR WLAN Aux & Transceiver

	Position	SAR Coordinates (cm)		(cm)	ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	51.1	0.004	Not required



Transceiver

Aux

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LTE FDD Band XXV + 5GHz WLAN MIMO + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.946	0.17	0.346	0.62	2.082	Analyzed as below
C	5	Top side	0	0.73	1.185	0.025	0.338	2.278	Analyzed as below
28	LTE B25	Bottom side	0	0.039	0.031	1.487	0.008	1.565	ΣSAR<1.6, Not required
		Left side	0	0.001	0.025	0.06	0.014	0.1	ΣSAR<1.6, Not required
		Right side	0	0.005	0.039	0.021	0.003	0.068	ΣSAR<1.6, Not required

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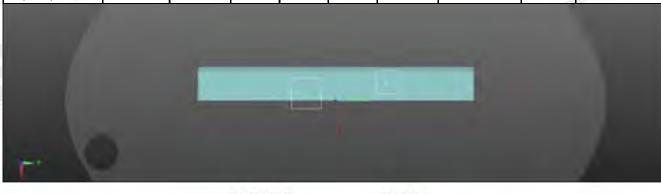
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SPLSR LTE Band 25 & WLAN Main

SPLSK LIE Ba	IIU ZJ Q V	VEAIN IVIO	111						
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B25 CH26590	Back side	0.946	9.32	-3.67	-0.18	1.116	84.3	0.014	SPLSR<0.04,
WLAN Main ac(80M) CH155		0.17	9.30	4.72	0.60	1.110	04.5	0.014	Not required
-					(0)				

WWAN Main

Conditions	Position	SAR Value	Coordinate		(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B25 CH26590	Tanada	0.73	-0.75	-3.84	-0.33	1.915	93.3	0.028	SPLSR<0.04,
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44				Not required



WWAN

Main

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SPLSR LTF Band 25 & WLAN Aux

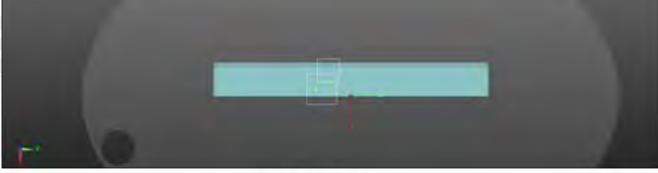
of Lore Lie Du									
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous Transmission
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	SAR Test
LTE B25 CH26590	Back side	0.946	9.32	-3.67	-0.18	1.292	203.4	0.007	SPLSR<0.04,
WLAN Aux a CH52	Dack Slue		-10.20	-9.32	0.61	1.292	203.4	0.007	Not required

Aux



WWAN

Conditions		SAR Value	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous Transmission
Conditions	POSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	SAR Test
LTE B25 CH26590	-	0.73	-0.75	-3.84	-0.33	0.755	26.8	0.024	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77		20.8	0.024	Not required



WWAN Aux

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<u>১</u>	<u>PLSR LIE Ba</u>	nd 25 & 1	ransceive	er						
	Conditions	Conditions Position SAR Value		Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission
	Conditions	1 OSITION	(W/kg)	Х	у	Z	(W/kg)	Separation Distance	JI LJK	SAR Test
	LTE B25 CH26590	Back side	0.946	9.32	-3.67	-0.18	1.566	71.3	0.027	SPLSR<0.04,
	Transceiver	Dack Side	0.62	13.00	-9.78	-0.17	1.500	71.5	0.027	Not required
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	To be a second									

Transcever WWAN

Conditions	Position	SAR Position Value		Coordinates (cm)			Peak Location	SPLSR	Simultaneous Transmission
Conditions	FOSITION	(W/kg)	х	У	Z	(W/kg)	Separation Distance	3F L3K	SAR Test
LTE B25 CH26590	Top side	0.73	-0.75	-3.84	-0.33	1.068	38.2	0.029	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	1.000	30.2	0.027	Not required
			_						
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Transceiver WWAN

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SPLSR WLAN Main & WLAN Aux

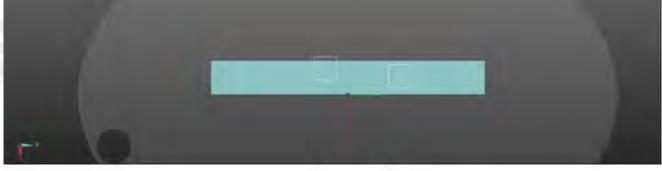
	Conditions Position	Position	SAR Value	Coor	dinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
a	WLAN Main c(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.516	240.3	0.002	SPLSR<0.04,
	WLAN Aux a CH52	back side	0.346	-10.20	-9.32	0.61	0.516	240.3	0.002	Not required





Main

		SAR	Coor	dinates	(cm)	5015	Peak Location		Simultaneous
Conditions	Position	Value	/alue \(\sum_{\lambda}\text{VM/kg}\)	AR Separation SPL	SPLSR	Transmission			
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main ac(20M) CH136	Top side -	1.185	-1.74	5.44	-0.44	1.21	80.9	0.016	SPLSR<0.04,
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	1.21	60.9	0.010	Not required



Aux Main

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SPLSR WLAN Main & Transceiver

SPLSK WLAN	ı main & ii	ansceive							
Conditions	Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/kg)	Distance		SAR Test
WLAN Main ac(80M) CH15	5 Back side	0.17	9.30	4.72	0.60	0.652	174.3	0.003	SPLSR<0.04,
Transceiver	Duck side	0.482	8.92	-12.68	-0.30	0.032	174.3	0.003	Not required
			-		(0)				
-									

Transceiver

Main

			SAR	Coor	dinates	(cm)	ΣSAR	Peak Location		Simultaneous
	Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
	WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	120.3	0.002	SPLSR<0.04,
l	Transceiver	. op s.u.s	0.338	-3.52	-6.46	-0.48	0.000		0.002	Not required
							_			
	T							-		4

Transceiver

Main

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SPLSR WLAN Aux & Transceiver

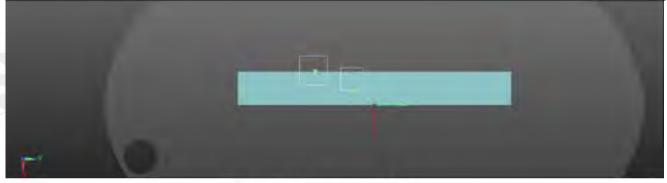
Conditions Po	Position	SAR Value	Coor	dinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/kg)	Distance		SAR Test
WLAN Aux a CH52	Back side	0.346	-10.20	-9.32	0.61	0.828	194.3	0.004	SPLSR<0.04,
Transceiver	Dack Side	0.482	8.92	-12.68	-0.30	0.020	174.3	0.004	Not required





Transceiver

Conditions Position		SAR	Coordinates (cm)		ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Aux a CH 136	Top side	0.025	-1.50	-2.34	1.77	0.363	51.1	0.004	SPLSR<0.04,
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.303	31.1	0.004	Not required



Transceiver

Aux

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GPRS 850 + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.493	0.045	0.014	0.62	1.172	ΣSAR<1.6, Not required
0		Top side	0	0.202	0.226	0.00003	0.338	0.76603	ΣSAR<1.6, Not required
29	850	Bottom side	0	0.038	0.005	0.07	0.008	0.121	ΣSAR<1.6, Not required
		Left side	0	0.022	0.024	0.005	0.014	0.065	ΣSAR<1.6, Not required
		Right side	0	0.019	0.017	0.002	0.003	0.041	ΣSAR<1.6, Not required

GPRS 1900 + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
6	3	Back side	0	0.89	0.045	0.014	0.62	1.569	ΣSAR<1.6, Not required
		Top side	0	0.727	0.226	0.00003	0.338	1.29103	ΣSAR<1.6, Not required
30	1900	Bottom side	0	0.037	0.005	0.07	0.008	0.12	ΣSAR<1.6, Not required
		Left side	0	0.02	0.024	0.005	0.014	0.063	ΣSAR<1.6, Not required
		Right side	0	0.029	0.017	0.002	0.003	0.051	ΣSAR<1.6, Not required

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WCDMA Band II + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.941	0.045	0.014	0.62	1.62	Analyzed as below
		Top side	0	0.664	0.226	0.00003	0.338	1.22803	ΣSAR<1.6, Not required
31	WCDMA B2	Bottom side	0	0.043	0.005	0.07	0.008	0.126	ΣSAR<1.6, Not required
		Left side	0	0.008	0.024	0.005	0.014	0.051	ΣSAR<1.6, Not required
		Right side	0	0.02	0.017	0.002	0.003	0.042	ΣSAR<1.6, Not required

SPLSR WCDMA B2 & BT

	VIII DE Q D								
Conditions	Position			dinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B2	Back side	0.941	9.30	-3.45	-0.10	0.955	202.3	0.005	SPLSR<0.04,
WLAN BT	Dack Slue	0.014	-9.76	-10.24	-0.32	0.755	202.3	0.003	Not required



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SPLSR WLAN Main & BT

		Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	201.00	Simultaneous
Condition	ns [Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Ma b CH11		Back side	0.045	8.68	5.04	0.53	0.059	239.6	0.000	SPLSR<0.04,
WLAN B		ack side	0.014	-9.76	-10.24	-0.32	0.039	237.0	0.000	Not required



WWAN

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SPLSR BT & Transceiver

 71	of & Hallsceiver									
Conditions	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous	
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test	
Transceiver	Back side	0.62	13.00	-9.78	-0.17	0.634	227.7	0.002	SPLSR<0.04,	
WLAN BT	back slue	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required	

BT



Transceiver

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WCDMA Band IV + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.944	0.045	0.014	0.62	1.623	Analyzed as below
		Top side	0	0.871	0.226	0.00003	0.338	1.43503	ΣSAR<1.6, Not required
32	WCDMA B4	Bottom side	0	0.032	0.005	0.07	0.008	0.115	ΣSAR<1.6, Not required
		Left side	0	0.027	0.024	0.005	0.014	0.07	ΣSAR<1.6, Not required
		Right side	0	0.014	0.017	0.002	0.003	0.036	ΣSAR<1.6, Not required

SPLSR WCDMA B4 & BT

Conditions	Position	SAR Value	Coor	dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B4	Back side	0.944	9.75	-2.40	-0.10	0.958	210.3	0.004	SPLSR<0.04,
WLAN BT	Dack side	0.014	-9.76	-10.24	-0.32	0.936	210.3	0.004	Not required





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SPLSR WLAN Main & BT

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			SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous	
	Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test	
4	WLAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.059	239.6	0.000	SPLSR<0.04,	
	WLAN BT		0.014	-9.76	-10.24 -0.32		0.034	237.0	0.000	Not required	



WWAN

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SPLSR BT & Transceiver

- 3	01	SK DI & ITALISCEIVEI											
			SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous			
	Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test			
	Transceiver	Pack side	0.62	13.00	-9.78	-0.17	0.634	227.7	0.002	SPLSR<0.04,			
	WLAN BT	AN BT Back side	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required			

BT



Transceiver

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WCDMA Band V + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.377	0.045	0.014	0.62	1.056	ΣSAR<1.6, Not required
6		Top side	0	0.363	0.226	0.00003	0.338	0.92703	ΣSAR<1.6, Not required
33	WCDMA B5	Bottom side	0	0.037	0.005	0.07	0.008	0.12	ΣSAR<1.6, Not required
		Left side	0	0.01	0.024	0.005	0.014	0.053	ΣSAR<1.6, Not required
		Right side	0	0.006	0.017	0.002	0.003	0.028	ΣSAR<1.6, Not required

CDMA / EVDO BCO + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
6	8	Back side	0	0.369	0.045	0.014	0.62	1.048	ΣSAR<1.6, Not required
		Top side	0	0.338	0.226	0.00003	0.338	0.90203	ΣSAR<1.6, Not required
34	EVDO BC0	Bottom side	0	0.035	0.005	0.07	0.008	0.118	ΣSAR<1.6, Not required
		Left side	0	0.003	0.024	0.005	0.014	0.046	ΣSAR<1.6, Not required
		Right side	0	0.005	0.017	0.002	0.003	0.027	ΣSAR<1.6, Not required

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CDMA / EVDO BC1 + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.691	0.045	0.014	0.62	1.37	ΣSAR<1.6, Not required
e		Top side	0	0.581	0.226	0.00003	0.338	1.14503	ΣSAR<1.6, Not required
35	EVDO BC1	Bottom side	0	0.049	0.005	0.07	0.008	0.132	ΣSAR<1.6, Not required
		Left side	0	0.021	0.024	0.005	0.014	0.064	ΣSAR<1.6, Not required
		Right side	0	0.029	0.017	0.002	0.003	0.051	ΣSAR<1.6, Not required

CDMA / EVDO BC10 + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
6		Back side	0	0.364	0.045	0.014	0.62	1.043	ΣSAR<1.6, Not required
		Top side	0	0.355	0.226	0.00003	0.338	0.91903	ΣSAR<1.6, Not required
36	EVDO BC10	Bottom side	0	0.045	0.005	0.07	0.008	0.128	ΣSAR<1.6, Not required
		Left side	0	0.004	0.024	0.005	0.014	0.047	ΣSAR<1.6, Not required
		Right side	0	0.002	0.017	0.002	0.003	0.024	ΣSAR<1.6, Not required

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LTE FDD Band II + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	1.182	0.045	0.014	0.62	1.861	Analyzed as below
		Top side	0	0.914	0.226	0.00003	0.338	1.47803	ΣSAR<1.6, Not required
37	LTE B2	Bottom side	0	0.045	0.005	0.07	0.008	0.128	ΣSAR<1.6, Not required
		Left side	0	0.011	0.024	0.005	0.014	0.054	ΣSAR<1.6, Not required
		Right side	0	0.024	0.017	0.002	0.003	0.046	ΣSAR<1.6, Not required

SPLSR LTE Band 2 & BT

Conditions	Position	Value		dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(w/kg)	Distance (mm)		SAR Test
LTE B2	Back side	1.182	9.46	-3.51	-0.19	1.196	203.6	0.006	SPLSR<0.04,
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	1.190	203.0	0.006	Not required

BT



WWAN

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SPLSR WLAN Main & BT

			SAR	Coor	dinates ((cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous
Co	Conditions	Position	Value (W/kg)	Х	у	Z				Transmission SAR Test
	LAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.059	239.6	0.000	SPLSR<0.04,
V	VLAN BT	Dack Slue	0.014	-9.76	-10.24	-0.32	0.059	239.0	0.000	Not required



WWAN

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SPI SR RT & Transceiver

0. 20 2. 0.	ESK DT & Transceiver											
		SAR	Coordinates (cm)		ΣSAR	Peak Location		Simultaneous				
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test			
Transceiver	Pack side	0.62	13.00	-9.78	-0.17	0.624	227.7	0.002	SPLSR<0.04,			
WLAN BT	Back side	0.014	-9.76	-10.24	-0.32	0.034	0.634 227.7		Not required			





Transceiver

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LTE FDD Band IV + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.797	0.045	0.014	0.62	1.476	ΣSAR<1.6, Not required
P		Top side	0	0.983	0.226	0.00003	0.338	1.54703	ΣSAR<1.6, Not required
38	LTE B4	Bottom side	0	0.031	0.005	0.07	0.008	0.083	ΣSAR<1.6, Not required
		Left side	0	0.014	0.024	0.005	0.014	0.057	ΣSAR<1.6, Not required
		Right side	0	0.012	0.017	0.002	0.003	0.034	ΣSAR<1.6, Not required

LTE FDD Band V + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.49	0.045	0.014	0.62	1.169	ΣSAR<1.6, Not required
		Top side	0	0.234	0.226	0.00003	0.338	0.79803	ΣSAR<1.6, Not required
39	LTE B5	Bottom side	0	0.041	0.005	0.07	0.008	0.124	ΣSAR<1.6, Not required
		Left side	0	0.02	0.024	0.005	0.014	0.063	ΣSAR<1.6, Not required
		Right side	0	0.012	0.017	0.002	0.003	0.034	ΣSAR<1.6, Not required

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LTE FDD Band XIII + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.499	0.045	0.014	0.62	1.178	ΣSAR<1.6, Not required
C	5	Top side	0	0.303	0.226	0.00003	0.338	0.86703	ΣSAR<1.6, Not required
40	LTE B13	Bottom side	0	0.016	0.005	0.07	0.008	0.099	ΣSAR<1.6, Not required
		Left side	0	0.027	0.024	0.005	0.014	0.07	ΣSAR<1.6, Not required
		Right side	0	0.006	0.017	0.002	0.003	0.028	ΣSAR<1.6, Not required

LTE FDD Band XVII + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
1		Back side	0	0.438	0.045	0.014	0.62	1.117	ΣSAR<1.6, Not required
		Top side	0	0.359	0.226	0.00003	0.338	0.92303	ΣSAR<1.6, Not required
41	LTE B17	Bottom side	0	0.048	0.005	0.07	0.008	0.131	ΣSAR<1.6, Not required
		Left side	0	0.049	0.024	0.005	0.014	0.092	ΣSAR<1.6, Not required
		Right side	0	0.015	0.017	0.002	0.003	0.037	ΣSAR<1.6, Not required

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LTE FDD Band XXV + BT+ 2.4GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.946	0.045	0.014	0.62	1.625	Analyzed as below
P		Top side	0	0.73	0.226	0.00003	0.338	1.29403	ΣSAR<1.6, Not required
42	LTE B25	Bottom side	0	0.039	0.005	0.07	0.008	0.122	ΣSAR<1.6, Not required
		Left side	0	0.001	0.024	0.005	0.014	0.044	ΣSAR<1.6, Not required
		Right side	0	0.005	0.017	0.002	0.003	0.027	ΣSAR<1.6, Not required

SPLSR LTE Band 25 & BT

Cor	nditions	Position	SAR Value	Coor	Coordinates (cm)		ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LT	E B25	Back side	0.946	9.32	-3.67	-0.18	0.96	201.8	0.005	SPLSR<0.04,
WL	_AN BT	back side	0.014	-9.76	-10.24	-0.32	0.90	201.0	0.003	Not required





WWAN

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SPLSR WLAN Main & BT

	Conditions	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Co	onditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
	LAN Main b CH11	Back side	0.045	8.68	5.04	0.53	0.059	239.6	0.000	SPLSR<0.04,
V	VLAN BT	Dack Slue	0.014	-9.76	-10.24	-0.32	0.039	239.0	0.000	Not required



WWAN

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SPLSR BT & Transceiver

 JI LON DI Q	11 41 1000110	<u>, , </u>								
		SAR	Coordinates (Coordinates (cm)		ΣSAR Location			Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test	
Transceiver	Back side	0.62	13.00	-9.78	-0.17	0.634	227.7	0.002	SPLSR<0.04,	
WLAN BT	back slue	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required	

BT



Transceiver

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GPRS 850 + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.493	0.17	0.014	0.62	1.297	ΣSAR<1.6, Not required
		Top side	0	0.202	1.185	0.00003	0.338	1.725	Analyzed as below
43	850	Bottom side	0	0.038	0.031	0.07	0.008	0.147	ΣSAR<1.6, Not required
		Left side	0	0.022	0.025	0.005	0.014	0.066	ΣSAR<1.6, Not required
		Right side	0	0.019	0.039	0.002	0.003	0.063	ΣSAR<1.6, Not required

SPLSR GPRS 850 & BT

Conditions	Position	SAR Value (W/kg)	Coo	rdinates ((cm) z	ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
			^	y	L		(mm)		
GPRS 850 CH190	Top side	0.202	-1.19	-1.79	-0.42	0.20203	89.1	0.001	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.20203	07.1	0.001	Not required

WWAN



BT

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SPI SR WI AN Main & BT

							Deal		
		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.10303	101.4	0.000	Not required

WLAN



BT

SPLSR BT & Transceiver

or Lore Dr a r									
	Position	SAR	Coo	rdinates ((cm)	72AD	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.55605	47.4	0.004	Not required



Transceiver

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GPRS 1900 + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.89	0.17	0.014	0.62	1.694	Analyzed as below
C		Top side	0	0.727	1.185	0.00003	0.338	2.250	Analyzed as below
44	1900	Bottom side	0	0.037	0.031	0.07	0.008	0.146	ΣSAR<1.6, Not required
		Left side	0	0.02	0.025	0.005	0.014	0.064	ΣSAR<1.6, Not required
		Right side	0	0.029	0.039	0.002	0.003	0.073	ΣSAR<1.6, Not required

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SPLSR WWAN & BT

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
GPRS 1900 CH810	Back side	0.89	9.30	-3.45	-0.10	0.904	202.3	0.004	SPLSR<0.04,
WLAN BT	Dack Side	0.014	-9.76	-10.24	-0.32	0.704	202.3	0.004	Not required

BT



WWAN

Conditions	Position	SAR Value	Coo	Coordinates (cm)		ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
GPRS 1900 CH810	Top side	0.727	-1.35	-4.33	-0.27	0.72703	63.7	0.010	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.72703	03.7	0.010	Not required





BT

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SPLSR WLAN Main & BT

Conditions		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.184	242.5	0.000	SPLSR<0.04,
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.164	242.5	0.000	Not required

BT



Main

0 1111	5	SAR	SAR Coor		dinates (cm)		Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.10303	101.4	0.000	Not required

WLAN



BT

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SPLSR BT & Transceiver

	.	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Back side	0.62	13.00	-9.78	-9.78 -0.17 0.634		227.7	0.002	SPLSR<0.04,
WLAN BT	Dack Side	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required

BT



Transceiver

0 1111		SAR	Coordinates (cm)			72AD	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.53603	47.4	0.004	Not required

BT



Transceiver

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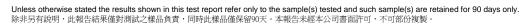
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WCDMA Band II + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.941	0.17	0.014	0.62 1.745		Analyzed as below
		Top side 0 0.664		1.185	0.00003	0.338	2.187	Analyzed as below	
45	WCDMA B2	Bottom side		0.043	0.031	0.07	0.008	0.152	ΣSAR<1.6, Not required
		Left side	0	0.008	0.025	0.005	0.014	0.052	ΣSAR<1.6, Not required
		Right side	0	0.02	0.039	0.002	0.003	0.064	ΣSAR<1.6, Not required



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SPLSR WWAN & BT

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Conditions	Position	SAR Value	Coor	dinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test		
WCDMA B2	· Back side	0.941	9.30	-3.45	-0.10	0.955	202.3	0.005	SPLSR<0.04,		
WLAN BT	Dack side	0.014	-9.76	-10.24	-0.32	0.755	202.5	0.003	Not required		





WWAN

Conditions	SAR Position Value		Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B2	Top side	0.664	-0.91	-4.20	-0.28	0.66403	65.2	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.00403	05.2	0.008	Not required

WWAN



BT

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SPLSR WLAN Main & BT

Conditions		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.184	242.5	0.000	SPLSR<0.04,
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.164	242.5	0.000	Not required

BT



Main

0 1111	5	SAR	SAR Coor		dinates (cm)		Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.10303	101.4	0.000	Not required

WLAN



BT

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SPLSR BT & Transceiver

<u> </u>	or cont by a manacerver											
Conditions		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous			
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test			
Transceive	r Back side	0.62	13.00	-9.78	-0.17	0.634	227.7	0.002	SPLSR<0.04,			
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required			

BT



Transceiver

	Danikina	SAR	Coordinates (cm)			75VD	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	3 47.4	0.004	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45		47.4	0.004	Not required

BT



Transceiver

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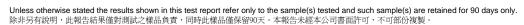
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WCDMA Band IV + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.944	0.17	0.014	0.62	1.748	Analyzed as below
C		Top side	0	0.871	1.185	0.00003	0.338	2.394	Analyzed as below
46	WCDMA B4	Bottom side	0	0.032	0.031	0.07	0.008	0.141	ΣSAR<1.6, Not required
		Left side	0	0.027	0.025	0.005	0.014	0.071	ΣSAR<1.6, Not required
		Right side	0	0.014	0.039	0.002	0.003	0.058	ΣSAR<1.6, Not required



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SPLSR WWAN & BT

	<u> </u>								
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B4	Back side	0.944	9.75	-2.40	-0.10	0.958	210.3	0.004	SPLSR<0.04,
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.956	210.3	0.004	Not required

BT



WWAN

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B4	Top side	0.871	-1.05	-3.04	-0.25	0.87103	76.7	0.011	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.87103	70.7	0.011	Not required

WWAN



BT

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SPI SR WI AN Main & BT

Conditions	Dooition	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	У	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Main ac(80M) CH155	Pack side	0.17	9.30	4.72	0.60	0.184	242.5	0.000	SPLSR<0.04,
WLAN BT	Back side	0.014	-9.76	-10.24	-0.32	0.164	242.5	0.000	Not required

BT



Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions			Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.10303	101.4	0.000	Not required

WLAN



BT

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SPLSR BT & Transceiver

	6	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	OAK Soperation SPI SI		Transmission SAR Test
Transceiver	Back side	0.62	13.00	-9.78	-0.17	0.634	227.7	0.002	SPLSR<0.04,
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required

BT



Transceiver

Conditions	5	SAR	Coordinates (cm)			72AD	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	ΣSAR (W/kg)	Separation SPLSR Distance (mm)	Transmission SAR Test	
Transceiver	· Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT		0.00003	-1.40	-10.70	-0.45	0.33603	47.4	0.004	Not required

BT



Transceiver

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WCDMA Band V + BT+ 5GHz WLAN Main + Transceiver

No	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.377	0.17	0.014	0.62	1.181	ΣSAR<1.6, Not required
(Top side	0	0.363	1.185	0.00003	0.338	1.886	Analyzed as below
47	WCDMA B5	Bottom side	0	0.037	0.031	0.07	0.008	0.146	ΣSAR<1.6, Not required
		Left side	0	0.01	0.025	0.005	0.014	0.054	ΣSAR<1.6, Not required
		Right side	0	0.006	0.039	0.002	0.003	0.05	ΣSAR<1.6, Not required

SPLSR WCDMA B5 & BT

Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	z (W/kg)	Distance (mm)		SAR Test	
WCDMA B5	Top side	0.363	-1.34	-1.63	-0.43	0.36303	90.7	0.002	SPLSR<0.04,
WLAN BT	rop side	0.00003	-1.40	-10.70	-0.45	0.30303	90.7	0.002	Not required





BT

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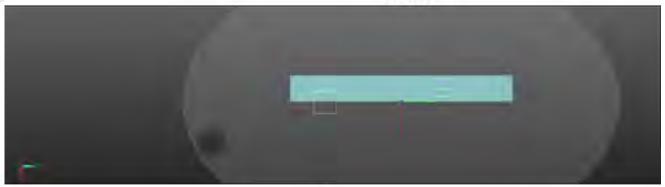


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SPLSR WLAN Main & BT

	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions			Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.16503	101.4	0.008	Not required

WLAN



BT

SPLSR BT & Transceiver

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions			Х	у	Z	(W/kg)	Separation Distance (mm)) Distance	Transmission SAR Test
Transceiver	- Top side -	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT		0.00003	03 -1.40 -10.70 -0		-0.45	0.33603	47.4	0.004	Not required

BT



Transceiver

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CDMA / EVDO BCO + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)		Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.369	0.17	0.014	0.62	1.173	ΣSAR<1.6, Not required
•		Top side	0	0.338	1.185	0.00003	0.338	1.861	Analyzed as below
48	EVDO BCO	Bottom side	0	0.035	0.031	0.07	0.008	0.144	ΣSAR<1.6, Not required
		Left side	0	0.003	0.025	0.005	0.014	0.047	ΣSAR<1.6, Not required
		Right side	0	0.005	0.039	0.002	0.003	0.049	ΣSAR<1.6, Not required

SPLSR CDMA BC0 & BT

Conditions Posi	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/Kg)	Distance (mm)		SAR Test
EVDO BCO	Top side	0.338	-1.20	-7.36	-0.41	0.33803	33.5	0.006	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.55605	33.0	0.008	Not required
					BC0				



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SPLSR WLAN Main & BT

Conditions		SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.16505	101.4	0.008	Not required

WLAN



BT

SPLSR BT & Transceiver

Conditions		SAR Coordinates (cm)		ΣSAR	Peak Location		Simultaneous		
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT	Top side (0.00003 -1.40 -10.70		-0.45	0.33603	47.4	0.004	Not required	

BT



Transceiver

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CDMA / EVDO BC1 + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.691	0.17	0.014	0.62	1.495	ΣSAR<1.6, Not required
(Top side	0	0.581	1.185	0.00003	0.338	2.104	Analyzed as below
49	EVDO BC1	Bottom side	0	0.049	0.031	0.07	0.008	0.158	ΣSAR<1.6, Not required
		Left side	0	0.021	0.025	0.005	0.014	0.065	ΣSAR<1.6, Not required
		Right side	0	0.029	0.039	0.002	0.003	0.073	ΣSAR<1.6, Not required

SPLSR CDMA BC1 & BT

Conditions	Position	SAR C		rdinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
EVDO BC1	Top side	0.581	-0.76	-3.95	-0.36	0.58103	67.8	0.007	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.56105	07.0	0.007	Not required





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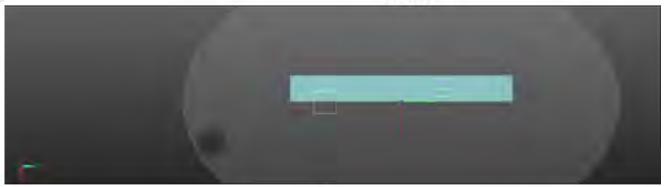


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SPLSR WLAN Main & BT

Conditions	Danitian	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	l op side	0.00003	-1.40	-10.70	-0.45	1.16503	101.4	0.008	Not required

WLAN



BT

SPLSR BT & Transceiver

or Lore Dr a 1									
Conditions		SAR	AR Coordinates (cm)		ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT	Top side			-10.70	-0.45	0.55605	47.4	0.004	Not required

BT



Transceiver

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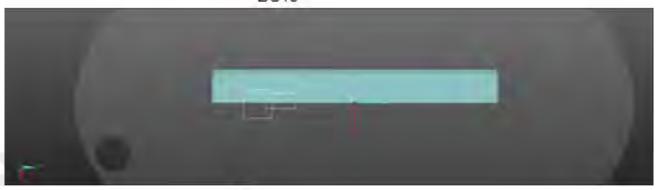
CDMA / EVDO BC10 + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.364	0.17	0.014	0.62	1.168	ΣSAR<1.6, Not required
0		Top side	0	0.355	1.185	0.00003	0.338	1.878	Analyzed as below
50	EVDO BC10	Bottom side	0	0.045	0.031	0.07	0.008	0.154	ΣSAR<1.6, Not required
		Left side	0	0.004	0.025	0.005	0.014	0.048	ΣSAR<1.6, Not required
		Right side	0	0.002	0.039	0.002	0.003	0.046	ΣSAR<1.6, Not required

SPLSR CDMA BC10 & BT

JI LOIK ODIVIA		•							
Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
EVDO BC10	Top side	0.355	-1.05	-7.80	-0.39	0.35503	29.2	0.007	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.55505	27.2	0.007	Not required

BC10



BT

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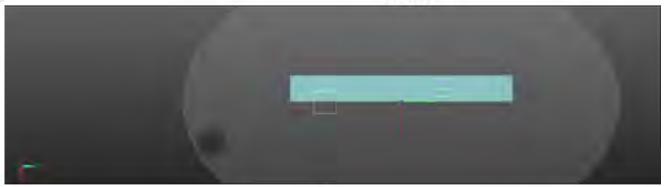


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SPI SR WI AN Main & BT

TESK WEAR Main & DI										
Conditions	Danista.	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous	
Conditions	Position	Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test	
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,	
WLAN BT	l op side	0.00003	-1.40	-10.70	-0.45	1.16503	101.4	0.008	Not required	

WLAN



BT

SPLSR BT & Transceiver

 I LOIL DI GII	411000110	•							
Conditions		SAR Coordinates (cm)		72AD	Peak Location		Simultaneous		
Conditions	Position	Value (W/kg)	х	y z ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test		
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT	Top side	Top side 0.00003		-10.70	-0.45	0.53603	47.4	0.004	Not required

BT



Transceiver

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LTE FDD Band II + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	1.182	0.17	0.014	0.62	1.986	Analyzed as below
C		Top side	0	0.914	1.185	0.00003	0.338	2.437	Analyzed as below
51	LTE B2	Bottom side	0	0.045	0.031	0.07	0.008	0.154	ΣSAR<1.6, Not required
		Left side	0	0.011	0.025	0.005	0.014	0.055	ΣSAR<1.6, Not required
		Right side	0	0.024	0.039	0.002	0.003	0.068	ΣSAR<1.6, Not required

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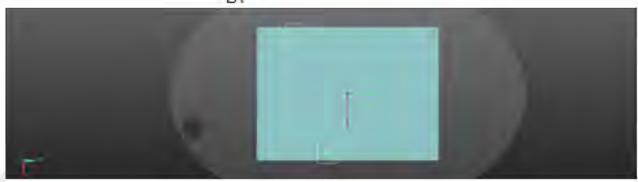


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SPLSR LTF B2 & BT

Conditions	Position	SAR Value (W/kg)	Coor	dinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
Conditions			Х	у	Z	(W/kg)	Distance (mm)	31 ESIX	SAR Test
LTE B2	Back side	1.182	9.46	-3.51	-0.19	1.196	203.6	0.006	SPLSR<0.04,
WLAN BT		0.014	-9.76	-10.24	-0.32	1.170	203.0	0.000	Not required

BT



WWAN

Conditions	Position	SAR Value	Coordinates (cr		(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B2	Top side	0.914	-0.75	-3.84	-0.32	0.91403	68.9	0.013	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.91403	00.9	0.013	Not required





BT

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SPLSR WLAN Main & BT

Conditions	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
		Value (W/kg)	х	У	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Main ac(80M) CH155	Back side	0.17	9.30	4.72	0.60	0.184	242.5	0.000	SPLSR<0.04,
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.164	242.5	0.000	Not required

BT



Main

Conditions	Position	SAR Co		ordinates (cm)		ΣSAR	Peak Location		Simultaneous
Conditions		Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.10303	101.4	0.008	Not required

WLAN



BT

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SPLSR BT & Transceiver

	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions			х	У	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Back side	0.62	13.00	-9.78	-0.17	0.624	227.7	0.002	SPLSR<0.04,
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required





Transceiver

		SAR	SAR Coordinates (cm)	72AD	Peak Location		Simultaneous		
Conditions	ditions Position	Value (W/kg)	Х	у	Z	ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.55605	47.4	0.004	Not required

BT



Transceiver

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LTE FDD Band IV + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR			
		Back side	0	0.797	0.17	0.014	0.62	1.601	Analyzed as below			
		Top side	0	0.983	1.185	0.00003	0.338	2.506	Analyzed as below			
52	LTE B4	Bottom side	0	0.0.31	0.031	0.07	0.008	1.557	ΣSAR<1.6, Not required			
		Left side	0	0.014	0.025	0.005	0.014	0.058	ΣSAR<1.6, Not required			
		Right side	0	0.012	0.039	0.002	0.003	0.056	ΣSAR<1.6, Not required			

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SPLSR LTF B4 & BT

OI LOIK LIL DT	<u> </u>								
Conditions	Position	SAR Value	Cooi	Coordinates (cm)		ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
Conditions		(W/kg)	Х	У	Z	(W/kg)	Distance (mm)		SAR Test
LTE B4	0.797 Back side 0.014	0.797	9.75	-3.06	-0.20	0.811	207.9	0.004	SPLSR<0.04,
WLAN BT		-9.76	-10.24	-0.32	0.011	207.7	0.004	Not required	

BT



WWAN

Conditions	s Position	SAR Value	Coordinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B4	Top side	0.983	-1.06	-3.34	-0.35	0.98303	73.7	0.013	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.70303	13.1	0.013	Not required

WWAN



BT

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SPI SR WI AN Main & BT

OI LOIK WEATH									
	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions			х	у	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Main ac(80M) CH155	Pack side	0.17	9.30	4.72	0.60	0.184	242.5	0.000	SPLSR<0.04,
WLAN BT	Back side	0.014	-9.76	-10.24	-0.32	0.164	242.5	0.000	Not required

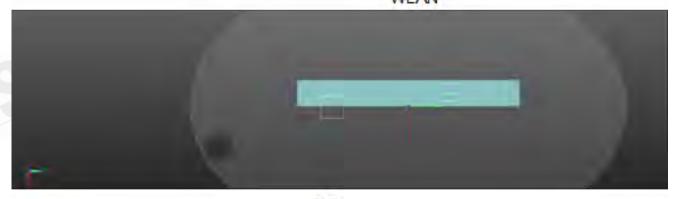
BT



Main

Conditions	Position	SAR		rdinates ((cm)	ΣSAR	Peak Location		Simultaneous
Conditions		Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.16505	101.4	0.008	Not required

WLAN



BT

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SPLSR BT & Transceiver

	TEST BY & Huriscelver											
		Position SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous			
Conditions	Position		х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test			
Transceiver	Back side	0.62	13.00	-9.78	-0.17	0.424	227.7	0.002	SPLSR<0.04,			
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required			





Transceiver

		SAR C		rdinates ((cm)	ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.33003	47.4	0.004	Not required

BT



Transceiver

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LTE FDD Band V + BT+ 5GHz WLAN Main + Transceiver

ſ										
	No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
			Back side	0	0.49	0.17	0.014	0.62	1.294	ΣSAR<1.6, Not required
	6		Top side	0	0.234	1.185	0.00003	0.338	1.757	Analyzed as below
	53	LTE B5	Bottom side	0	0.041	0.031	0.07	0.008	0.15	ΣSAR<1.6, Not required
			Left side	0	0.02	0.025	0.005	0.014	0.064	ΣSAR<1.6, Not required
			Right side	0	0.012	0.039	0.002	0.003	0.056	ΣSAR<1.6, Not required

SPLSR LTE B5 & BT

Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)			Z	(W/kg)	Distance (mm)		SAR Test
LTE B5	Top side	0.234	-1.35	-1.63	-0.44	0.23403	90.7	0.001	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.23403	90.1	0.001	Not required





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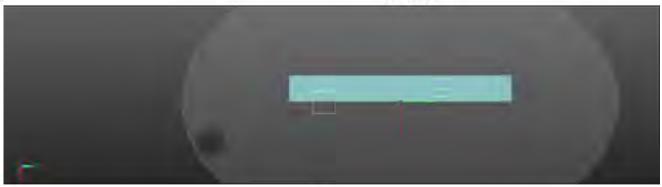


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SPI SR WI AN Main & BT

<u> </u>	LON WEAR MAIN & DI											
	.	SAR	Coo	Coordinates (cm)			Peak Location		Simultaneous			
Conditions	Position	ition Value (W/kg)	Х	у	Z	ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test			
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,			
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.16505	101.4	0.008	Not required			

WLAN



BT

SPLSR BT & Transceiver

or Lore Dr a 1									
Conditions Desition		SAR	Coo	ordinates (cm)		ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side (0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT				-10.70	-0.45		33803 47.4		Not required

BT



Transceiver

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LTE FDD Band XIII + BT+ 5GHz WLAN Main + Transceiver

_									
No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.499	0.17	0.014	0.62	1.303	ΣSAR<1.6, Not required
		Top side	0	0.303	1.185	0.00003	0.338	1.826	Analyzed as below
54	LTE B13	Bottom side	0	0.016	0.031	0.07	0.008	0.125	ΣSAR<1.6, Not required
		Left side	0	0.027	0.025	0.005	0.014	0.071	ΣSAR<1.6, Not required
		Right side	0	0.006	0.039	0.002	0.003	0.05	ΣSAR<1.6, Not required

SPLSR LTE B13 & BT

Conditions	Position	SAR Value	Coo			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B13	Top side	0.303	-1.34	-8.06	-0.39	0.30303	26.4	0.006	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.30303	20.4	0.000	Not required





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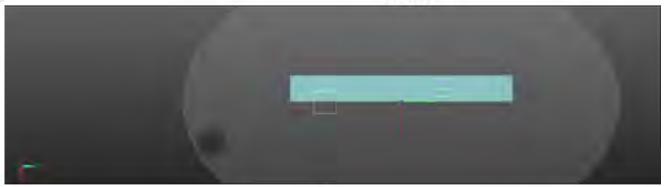


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SPLSR WLAN Main & BT

O and the same	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Conditions		Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.16503	101.4	0.008	Not required

WLAN



BT

SPLSR BT & Transceiver

or Lore Dr a 1									
Conditions Desition		SAR	Coo	ordinates (cm)		ΣSAR	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Transceiver	Top side (0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WLAN BT				-10.70	-0.45		33803 47.4		Not required

BT



Transceiver

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LTE FDD Band XVII + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.438	0.17	0.014	0.62	1.242	ΣSAR<1.6, Not required
P		Top side	0	0.359	1.185	0.00003	0.338	1.882	Analyzed as below
55	LTE B17	Bottom side	0	0.048	0.031	0.07	0.008	0.157	ΣSAR<1.6, Not required
		Left side	0	0.049	0.025	0.005	0.014	0.093	ΣSAR<1.6, Not required
		Right side	0	0.015	0.039	0.002	0.003	0.059	ΣSAR<1.6, Not required

SPLSR LTE B17 & BT

Conditions	Position	SAR Value (W/kg)		Coordinates (c		ΣSAR (W/kg)	Peak Location Separation Distance	SPLSR	Simultaneous Transmission SAR Test
			Х	У	Z		(mm)		
LTE B17	Top side	0.359	-1.35	-7.60	-0.39	0.35903	31	0.007	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	0.33903	31	0.007	Not required



BT

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SPLSR WLAN Main & BT

O and the same	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions		Value (W/kg)	Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main ac(20M) CH136	Top side	1.185	-1.74	5.44	-0.44	1.18503	161.4	0.008	SPLSR<0.04,
WLAN BT	Top side	0.00003	-1.40	-10.70	-0.45	1.16503	101.4	0.008	Not required

WLAN



BT

SPLSR BT & Transceiver

	or Lore Dr a 1									
	Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
				х	у	Z	(W/kg)	Separation Distance (mm)	Distance	Transmission SAR Test
	Transceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
	WLAN BT		0.00003	-1.40	-10.70	-0.45	0.53603	47.4		Not required

BT



Transceiver

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LTE FDD Band XXV + BT+ 5GHz WLAN Main + Transceiver

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN BT	Max. Transceiver	SAR Sum	SPLSR
		Back side	0	0.946	0.17	0.014	0.62	1.75	Analyzed as below
	LTE B25	Top side	0	0.73	1.185	0.00003	0.338	2.253	Analyzed as below
56		Bottom side	0	0.039	0.031	0.07	0.008	0.148	ΣSAR<1.6, Not required
		Left side	0	0.001	0.025	0.005	0.014	0.045	ΣSAR<1.6, Not required
		Right side	0	0.005	0.039	0.002	0.003	0.049	ΣSAR<1.6, Not required

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SPLSR LTE B25 & BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	у	Z	(W/kg)	Distance (mm)	5. 26 K	SAR Test
LTE B25	Back side	0.946	9.32	-3.67	-0.18	0.96	201.8	0.005	SPLSR<0.04,
WLAN BT		0.014	-9.76	-10.24	-0.32	0.90	201.0	0.005	Not required

BT



WWAN

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B25	Top side	0.73	-0.75	-3.84	-0.33	0.72002	68.9	0.009	SPLSR<0.04,
WLAN BT		0.00003	-1.40	-10.70	-0.45	0.73003	00.9		Not required

WWAN



BT

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SPLSR WLAN Main & BT

	Position	SAR	Coordinates (cm)			ΣSAR	Peak Location	CDI CD	Simultaneous
Conditions		Value (W/kg)	х	У	Z	(W/kg)	Separation Distance	SPLSR	Transmission SAR Test
WLAN Main ac(80M) CH155 WLAN BT	· Back side	0.17	9.30	4.72	0.60	0.104	242.5	0.000	SPLSR<0.04,
		0.014	-9.76	-10.24	-0.32	0.184	242.5	0.000	Not required

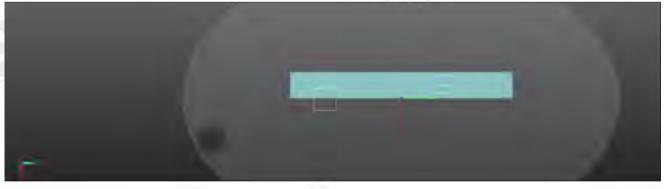
BT



Main

	Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
				Х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
a	WLAN Main ac(20M) CH136 WLAN BT	Top side	1.185	-1.74	5.44	-0.44	1 19502	161.4	0.008	SPLSR<0.04,
			0.00003	-1.40	-10.70	-0.45	1.18503	101.4		Not required

WLAN



BT

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SPI SR RT & Transceiver

of Eor Di & Hanscover										
		SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous	
Conditions	Position		х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test	
Transceiver	Back side	0.62	13.00	-9.78	-0.17	0.634	227.7	0.002	SPLSR<0.04,	
WLAN BT	back side	0.014	-9.76	-10.24	-0.32	0.034	221.1	0.002	Not required	





Transceiver

		Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location		Simultaneous
Con	ditions			Х	у	Z	(W/kg)	Separation Distance (mm)	Distance	Transmission SAR Test
Tran	sceiver	Top side	0.338	-3.52	-6.46	-0.48	0.33803	47.4	0.004	SPLSR<0.04,
WL	AN BT		0.00003	-1.40	-10.70	-0.45		47.4		Not required

BT



Transceiver

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4. Instruments List

Device Dosimetric E-Field Probe	Type EX3DV4	Serial number 3923	Date of last calibration Aug.28,2014	Date of next calibration
	EX3DV4	3923	Aug.28,2014	Aug 27 2015
Probe	EX3DV4		-	1 lug. 21, 2013
		3770	Apr.28,2015	Apr.27,2016
	D750V2	1015	Aug.28,2014	Aug.27,2015
	D835V2	4d063	Aug.28,2014	Aug.27,2015
System Validation	D1750V2	1008	Aug.28,2014	Aug.27,2015
Dipole	D1900V2	5d027	Apr.29,2015	Apr.28,2016
	D2450V2	727	Apr.22,2015	Apr.21,2016
	D5GHzV2	1023	Jan.29,2015	Jan.28,2016
Data acquisition	DAE4	856	Aug.27,2015	Aug.26,2016
Electronics	DAE4	1374	May.06,2015	May.05,2016
Software	DASY 52 V52.8.8	N/A	Calibration not required	Calibration not required
Phantom	SAM	N/A	Calibration not required	Calibration not required
Network Analyzer	8753D	3410A05547	May.21,2015	May.20,2016
Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required
Dual-directional	777D	50114	Aug.07,2014	Aug.06,2015
coupler	778D	50313	Aug.07,2014	Aug.06,2015
F Signal Generator	N5181A	MY50144143	Jun.25.2014	Jun.24.2015
	Dipole Data acquisition Electronics Software Phantom Network Analyzer Dielectric Probe Kit Dual-directional coupler	D835V2 D1750V2 D1900V2 D1900V2 D2450V2 D5GHzV2 DAE4 DAE4 DASY 52 V52.8.8 Phantom SAM Network Analyzer Dielectric Probe Kit Dual-directional coupler D1750V2 D1750V2 D1900V2 D2450V2 DAE4 DAE4 DAE4 DASY 52 V52.8.8 Fhantom SAM Retwork Analyzer Probe Kit T77D T78D	D750V2 1015 D835V2 4d063 D1750V2 1008 D1900V2 5d027 D2450V2 727 D5GHzV2 1023 Data acquisition Electronics DAE4 856 DAE4 1374 Software DASY 52 V52.8.8 Phantom SAM N/A Network Analyzer 8753D 3410A05547 Dielectric Probe Kit 777D 50114 Coupler 778D 50313	D750V2 1015 Aug.28,2014 D835V2 4d063 Aug.28,2014 D1750V2 1008 Aug.28,2014 D1900V2 5d027 Apr.29,2015 D2450V2 727 Apr.22,2015 D5GHzV2 1023 Jan.29,2015 DAE4 856 Aug.27,2015 DAE4 1374 May.06,2015 Software DASY 52 V52.8.8 N/A Calibration not required V52.8.8 N/A Calibration not required Network Analyzer 8753D 3410A05547 May.21,2015 Dielectric Probe Kit Dual-directional coupler 778D 50114 Aug.07,2014

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Manufacturer	Device	Туре	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	122498	Aug.14,2014	Aug.13,2015
Anritsu	Radio Communication Test	MT8820C	6201061014	Aug.06,2014	Aug.05,2015

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5. Measurements

Date: 2015/6/12

GPRS 850_Body_Back side_CH 190_0mm

Communication System: GPRS(1Dn2Up); Frequency: 836.6 MHz

Medium parameters used: f = 837 MHz; $\sigma = 0.956$ S/m; $\varepsilon_r = 54.333$; $\rho = 1000$ kg/m³

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.625 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

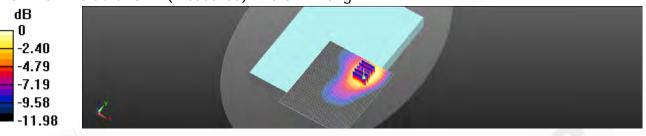
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.571 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.324 W/kg

Maximum value of SAR (measured) = 0.617 W/kg



0 dB = 0.617 W/kq = -2.10 dBW/kq

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Date: 2015/6/11

GPRS 1900_Body_Top side_CH 661_12mm

Communication System: GPRS(1Dn2Up); Frequency: 1880 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.508 \text{ S/m}$; $\varepsilon_r = 52.356$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x121x1): Interpolated grid: dx=15 mm,

dy=15 mm

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

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

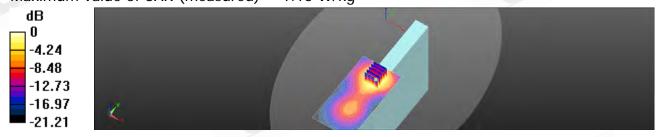
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.79 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 q) = 0.888 W/kq; SAR(10 q) = 0.532 W/kq

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



0 dB = 1.19 W/kg = 0.75 dBW/kg

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Date: 2015/6/11

WCDMA Band II_Body_Top side_CH 9538_12mm_repeated with Transceiver

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: f = 1908 MHz; $\sigma = 1.537$ S/m; $\varepsilon_r = 52.188$; $\rho = 1000$ kg/m³

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.34 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

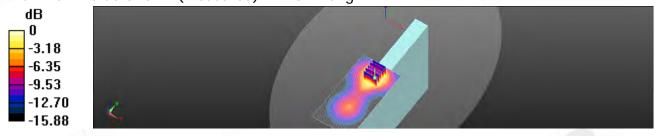
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.73 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.600 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kq = 1.19 dBW/kq

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Date: 2015/6/17

WCDMA Band IV_Body_Top side_CH 1312_12mm

Communication System: WCDMA; Frequency: 1712.4 MHz

Medium parameters used: f = 1712.4 MHz; $\sigma = 1.431 \text{ S/m}$; $\varepsilon_r = 52.41$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x121x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 1.63 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

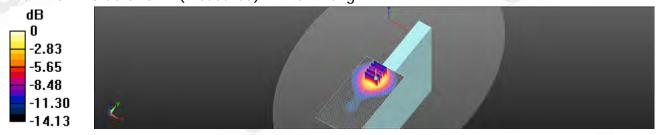
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.58 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.780 W/kg

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



0 dB = 1.61 W/kg = 2.05 dBW/kg

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Date: 2015/6/12

WCDMA Band V_Body_Back side_CH 4183_0mm

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: f = 837 MHz; $\sigma = 0.956 \text{ S/m}$; $\varepsilon_r = 54.333$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (101x121x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 0.538 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

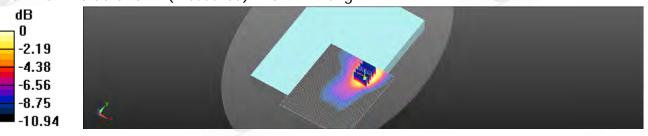
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.494 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.601 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.223 W/kg

Maximum value of SAR (measured) = 0.491 W/kg



0 dB = 0.491 W/kg = -3.09 dBW/kg

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Date: 2015/6/18

LTE Band 2 (20MHz)_Body_Top side_CH 19100_QPSK_1-99_12mm

Communication System: LTE; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.536 \text{ S/m}$; $\epsilon_r = 52.126$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x121x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 1.34 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

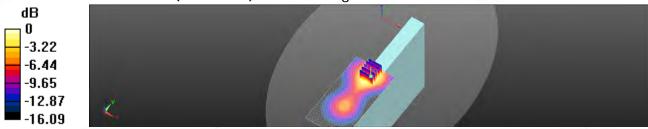
dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.74 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.593 W/kg

Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.29 W/kq = 1.12 dBW/kq

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Date: 2015/6/17

LTE Band 4 (20Mhz)_Body_Top side_CH 20050_QPSK_1-50_12mm

Communication System: LTE; Frequency: 1720 MHz

Medium parameters used: f = 1720 MHz; $\sigma = 1.44 \text{ S/m}$; $\varepsilon_r = 52.394$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(7.5, 7.5, 7.5); Calibrated: 2015/1/29;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; 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) = 1.72 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

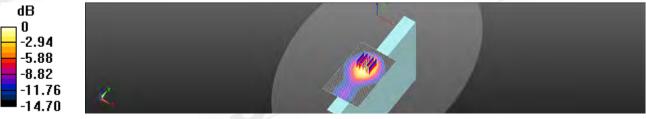
dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.79 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.780 W/kg

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kq = 2.17 dBW/kq

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Date: 2015/6/15

LTE Band 5 (10MHz)_Body_Back side_CH 20600_QPSK_1-49_0mm

Communication System: LTE; Frequency: 844 MHz

Medium parameters used: f = 844 MHz; $\sigma = 0.973$ S/m; $\varepsilon_r = 53.996$; $\rho = 1000$ kg/m³

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (71x101x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 0.429 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

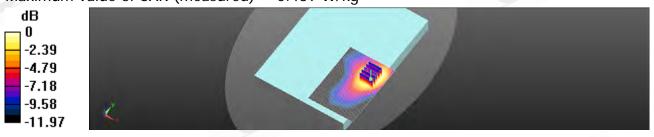
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.492 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 0.439 W/kg



0 dB = 0.439 W/kg = -3.58 dBW/kg

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Date: 2015/6/16

LTE Band 13 (10MHz)_Body_Back side_CH 23230_QPSK_1-25_0mm

Communication System: LTE; Frequency: 782 MHz

Medium parameters used: f = 782 MHz; $\sigma = 0.993$ S/m; $\varepsilon_r = 53.973$; $\rho = 1000$ kg/m³

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (71x101x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 0.420 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

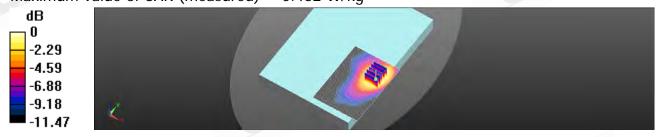
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.454 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 q) = 0.340 W/kq; SAR(10 q) = 0.224 W/kq

Maximum value of SAR (measured) = 0.432 W/kg



0 dB = 0.432 W/kg = -3.64 dBW/kg

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Date: 2015/6/16

LTE Band 17 (10MHz)_Body_Back side_CH 23780_QPSK_1-25_0mm

Communication System: LTE; Frequency: 709 MHz

Medium parameters used: f = 709 MHz; $\sigma = 0.922$ S/m; $\varepsilon_r = 54.312$; $\rho = 1000$ kg/m³

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: DAE4 Sn1374; Calibrated: 2015/5/6
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (71x101x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 0.387 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

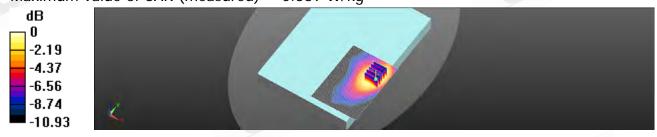
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.316 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 q) = 0.312 W/kq; SAR(10 q) = 0.211 W/kq

Maximum value of SAR (measured) = 0.389 W/kg



0 dB = 0.389 W/kq = -4.10 dBW/kq

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Date: 2015/6/18

LTE Band 25 (20MHz)_Body_Top side_CH 26140_QPSK_1-99_12mm

Communication System: LTE; Frequency: 1860 MHz

Medium parameters used: f = 1860 MHz; $\sigma = 1.493 \text{ S/m}$; $\varepsilon_r = 52.89$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x121x1): 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:

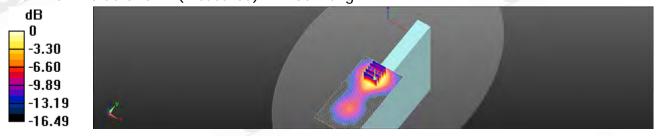
dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.64 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.616 W/kg

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



0 dB = 1.36 W/kg = 1.32 dBW/kg

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Date: 2015/6/12

Cellular BC0_Body_Back side_CH 384_0mm_1xEVDO Rev. 0

Communication System: 1xEVDO; Frequency: 836.52 MHz

Medium parameters used: f = 836.52 MHz; $\sigma = 0.956$ S/m; $\epsilon_r = 54.333$; $\rho = 1000$ kg/m³

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: DAE4 Sn1374; Calibrated: 2015/5/6

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) = 0.390 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

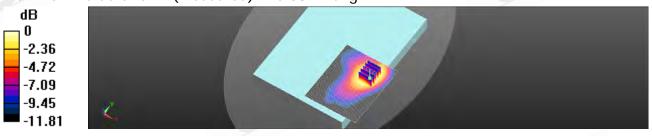
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.719 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 g) = 0.307 W/kg; SAR(10 g) = 0.202 W/kg

Maximum value of SAR (measured) = 0.387 W/kg



0 dB = 0.387 W/kg = -4.12 dBW/kg

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Date: 2015/6/11

PCS BC1_Body_Top side_CH 600_12mm_1xEVDO Rev. 0

Communication System: 1xEVDO; Frequency: 1880 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.508 \text{ S/m}$; $\epsilon_r = 52.356$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (61x121x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 1.40 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

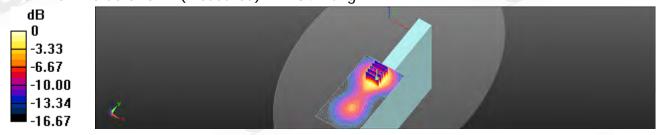
dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.07 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.603 W/kg

Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

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Date: 2015/6/15

Cellular BC10_Body_Back side_CH 684_0mm_1xEVDO Rev. 0

Communication System: 1xEVDO; Frequency: 823.1 MHz

Medium parameters used: f = 823.1 MHz; $\sigma = 0.95 \text{ S/m}$; $\epsilon_r = 54.033$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

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) = 0.371 W/kg

Configuration/BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

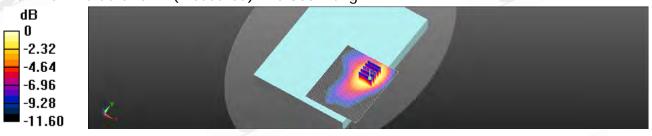
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.390 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.431 W/kg

SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.191 W/kg

Maximum value of SAR (measured) = 0.363 W/kg



0 dB = 0.363 W/kg = -4.40 dBW/kg

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Date: 2015/6/1

WLAN802.11 b_Body_Top side_CH 11_Main

Communication System: WLAN 2.45G; Frequency: 2462 MHz

Medium parameters used: f = 2462 MHz; $\sigma = 2.053$ S/m; $\varepsilon_r = 51.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (71x121x1): Interpolated grid: dx=12 mm,

dy=12 mm

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

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

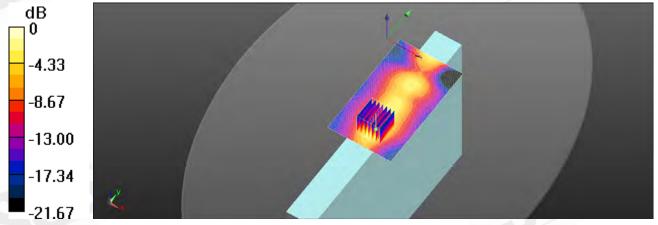
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.485 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.095 W/kg

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



0 dB = 0.298 W/kq = -5.26 dBW/kq

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Date: 2015/6/2

WLAN802.11 ac(20M) 5.2G_Body_Top side_CH 44_Main

Communication System: WLAN 5G; Frequency: 5220 MHz

Medium parameters used: f = 5220 MHz; $\sigma = 5.496 \text{ S/m}$; $\varepsilon_r = 47.86$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

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

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

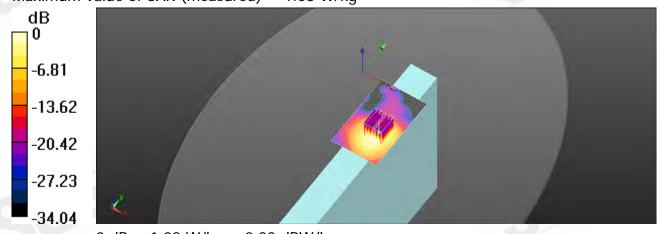
dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.184 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 q) = 0.582 W/kq; SAR(10 q) = 0.212 W/kq

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2015/6/3

WLAN802.11 ac(20M) 5.3G_Body_Top side_CH 56_Main

Communication System: WLAN 5G; Frequency: 5280 MHz

Medium parameters used: f = 5280 MHz; $\sigma = 5.583 \text{ S/m}$; $\epsilon_r = 47.659$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 1.55 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

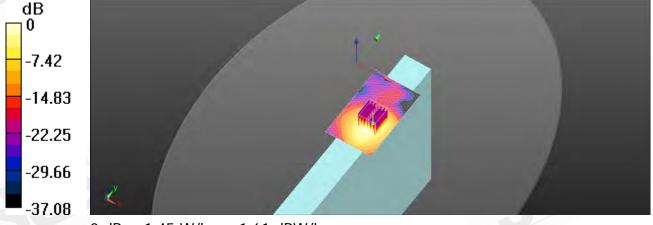
dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.878 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 q) = 0.776 W/kq; SAR(10 q) = 0.282 W/kq

Maximum value of SAR (measured) = 1.45 W/kg



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

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Date: 2015/6/4

WLAN802.11 a 5.6G_Body_Top side_CH 104_Main

Communication System: WLAN 5G; Frequency: 5520 MHz

Medium parameters used: f = 5520 MHz; $\sigma = 5.91 \text{ S/m}$; $\varepsilon_r = 46.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 1.94 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

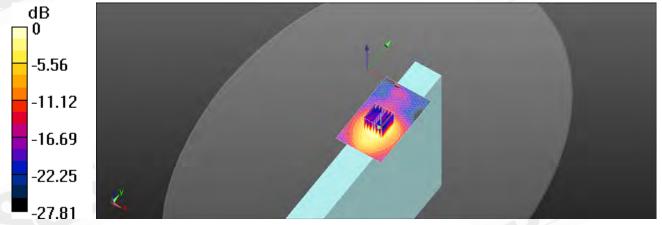
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.984 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 4.07 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.374 W/kg

Maximum value of SAR (measured) = 1.90 W/kg



0 dB = 1.90 W/kq = 2.79 dBW/kq

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Date: 2015/6/4

WLAN802.11 ac(20M) 5.6G_Body_Top side_CH 104_Main

Communication System: WLAN 5G; Frequency: 5520 MHz

Medium parameters used: f = 5520 MHz; $\sigma = 5.91 \text{ S/m}$; $\varepsilon_r = 46.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

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

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

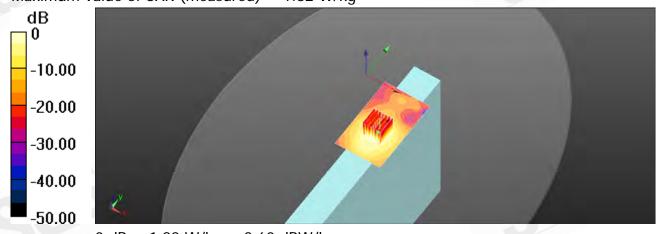
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.870 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 3.92 W/kg

SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.351 W/kg

Maximum value of SAR (measured) = 1.82 W/kg



0 dB = 1.82 W/kq = 2.60 dBW/kq

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WLAN802.11 ac(80M) 5.6G_Body_Top side_CH 138_Main

Communication System: WLAN 5G; Frequency: 5690 MHz

Medium parameters used: f = 5690 MHz; $\sigma = 6.029 \text{ S/m}$; $\varepsilon_r = 46.33$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

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

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

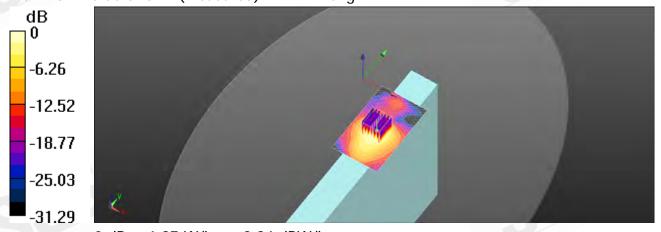
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.463 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 4.23 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.380 W/kg

Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

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Date: 2015/6/1

WLAN802.11 ac(80M) 5.8G_Body_Top side_CH 155_Main

Communication System: WLAN 5G; Frequency: 5775 MHz

Medium parameters used: f = 5775 MHz; $\sigma = 6.2$ S/m; $\varepsilon_r = 46.085$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.33, 4.33, 4.33); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

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

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

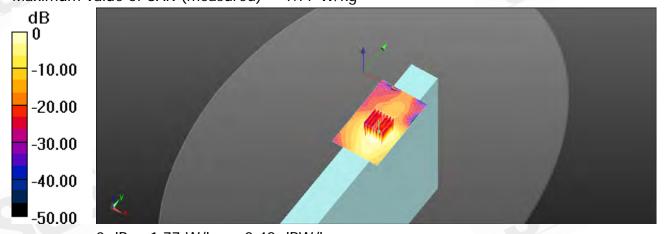
dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.634 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 q) = 0.937 W/kq; SAR(10 q) = 0.338 W/kq

Maximum value of SAR (measured) = 1.77 W/kg



0 dB = 1.77 W/kg = 2.48 dBW/kg

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Date: 2015/6/1

WLAN802.11 b_Body_Bottom_CH 11_Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz

Medium parameters used: f = 2462 MHz; $\sigma = 2.053$ S/m; $\epsilon_r = 51.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (71x121x1): Interpolated grid: dx=12 mm,

dy=12 mm

Maximum value of SAR (interpolated) = 0.796 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.899 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 0.748 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid:

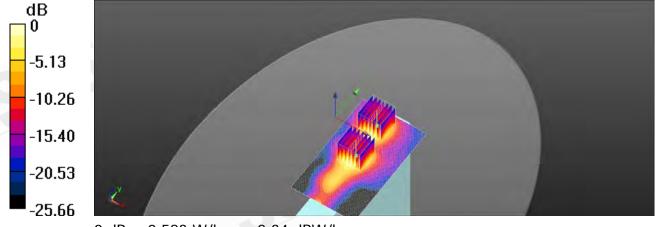
dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.899 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.784 W/kg

SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.583 W/kg



0 dB = 0.583 W/kg = -2.34 dBW/kg

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Date: 2015/6/2

WLAN802.11 a 5.2G_Body_Bottom_CH 44_Aux

Communication System: WLAN 5G; Frequency: 5220 MHz

Medium parameters used: f = 5220 MHz; $\sigma = 5.496 \text{ S/m}$; $\varepsilon_r = 47.86$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

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

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

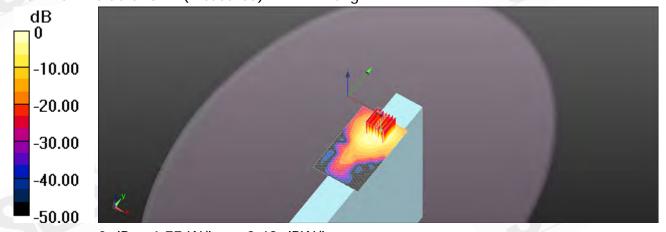
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.790 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 0.921 W/kg; SAR(10 g) = 0.290 W/kg

Maximum value of SAR (measured) = 1.77 W/kg



0 dB = 1.77 W/kg = 2.48 dBW/kg

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Date: 2015/6/2

WLAN802.11 ac(20M) 5.2G_Body_Bottom_CH 40_Aux

Communication System: WLAN 5G; Frequency: 5200 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 5.47 \text{ S/m}$; $\varepsilon_r = 47.895$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

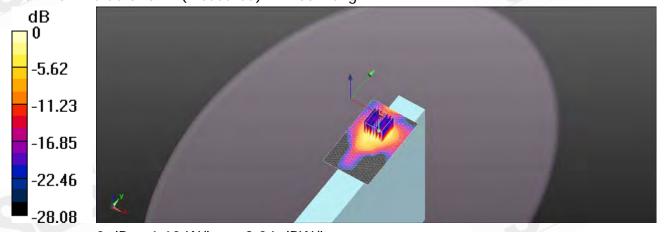
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.662 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 q) = 0.854 W/kq; SAR(10 q) = 0.280 W/kq

Maximum value of SAR (measured) = 1.60 W/kg



0 dB = 1.60 W/kg = 2.04 dBW/kg

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Date: 2015/6/3

WLAN802.11 a 5.3G_Body_Bottom_CH 56_Aux

Communication System: WLAN 5G; Frequency: 5280 MHz

Medium parameters used: f = 5280 MHz; $\sigma = 5.583 \text{ S/m}$; $\epsilon_r = 47.659$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 2.82 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

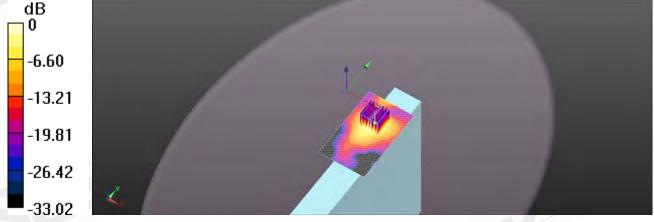
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.145 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 5.45 W/kg

SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.444 W/kg

Maximum value of SAR (measured) = 2.58 W/kg



0 dB = 2.58 W/kq = 4.12 dBW/kq

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Date: 2015/6/3

WLAN802.11 n(20M) 5.3G_Body_Bottom_CH 60_Aux

Communication System: WLAN 5G; Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 5.61 \text{ S/m}$; $\varepsilon_r = 47.584$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 3.03 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

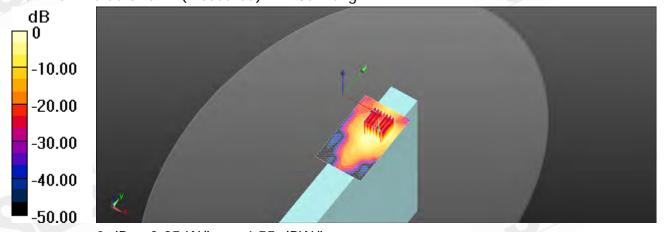
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.240 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 5.95 W/kg

SAR(1 g) = 1.45 W/kg; SAR(10 g) = 0.460 W/kg

Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.85 W/kg = 4.55 dBW/kg

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Date: 2015/6/3

WLAN802.11 ac(20M) 5.3G_Body_Bottom_CH 56_Aux

Communication System: WLAN 5G; Frequency: 5280 MHz

Medium parameters used: f = 5280 MHz; $\sigma = 5.583 \text{ S/m}$; $\epsilon_r = 47.659$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 2.94 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

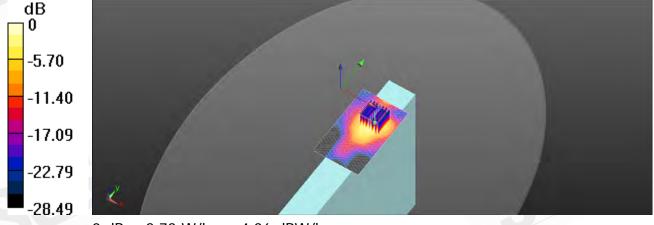
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.520 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 5.70 W/kg

SAR(1 g) = 1.41 W/kg; SAR(10 g) = 0.453 W/kg

Maximum value of SAR (measured) = 2.73 W/kg



0 dB = 2.73 W/kg = 4.36 dBW/kg

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Date: 2015/6/3

WLAN802.11 n(40M) 5.3G_Body_Bottom_CH 54_Aux

Communication System: WLAN 5G; Frequency: 5270 MHz

Medium parameters used: f = 5270 MHz; $\sigma = 5.567 \text{ S/m}$; $\varepsilon_r = 47.696$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 3.39 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

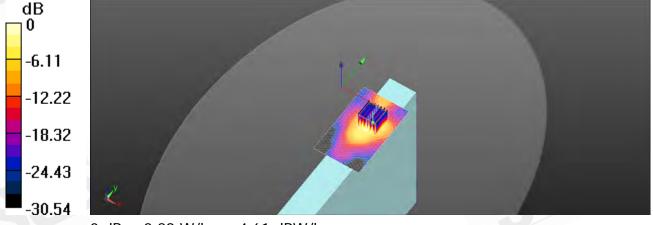
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.738 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 5.91 W/kg

SAR(1 g) = 1.46 W/kg; SAR(10 g) = 0.461 W/kg

Maximum value of SAR (measured) = 2.89 W/kg



0 dB = 2.89 W/kg = 4.61 dBW/kg

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Date: 2015/6/3

WLAN802.11 ac(40M) 5.3G_Body_Bottom_CH 54_Aux

Communication System: WLAN 5G; Frequency: 5270 MHz

Medium parameters used: f = 5270 MHz; $\sigma = 5.567 \text{ S/m}$; $\varepsilon_r = 47.696$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 3.29 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

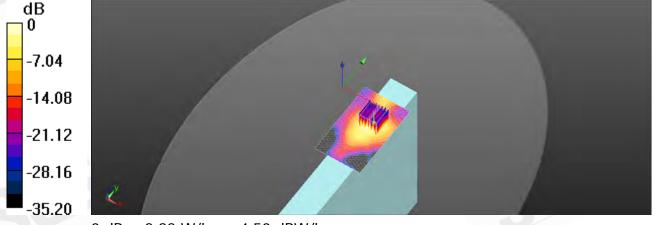
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.914 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 5.78 W/kg

SAR(1 g) = 1.44 W/kg; SAR(10 g) = 0.456 W/kg

Maximum value of SAR (measured) = 2.82 W/kg



0 dB = 2.82 W/kg = 4.50 dBW/kg

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Date: 2015/6/4

WLAN802.11 a 5.6G_Body_Bottom_CH 120_Aux

Communication System: WLAN 5G; Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; $\sigma = 6.005 \text{ S/m}$; $\epsilon_r = 46.587$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 2.27 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

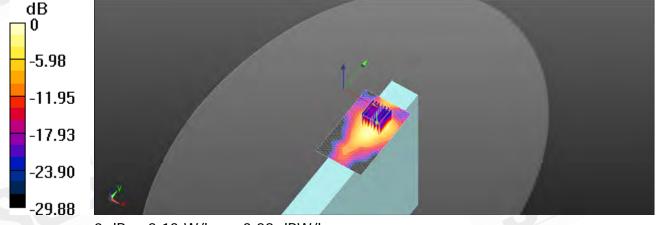
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.813 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 4.59 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.363 W/kg

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



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

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Date: 2015/6/4

WLAN802.11 n(20M) 5.6G_Body_Bottom_CH 136_Aux

Communication System: WLAN 5G; Frequency: 5680 MHz

Medium parameters used: f = 5680 MHz; $\sigma = 6.021 \text{ S/m}$; $\epsilon_r = 46.359$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

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

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

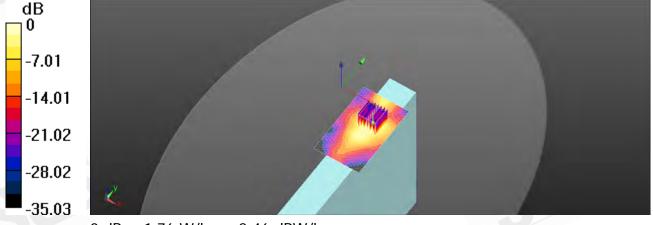
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.117 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 q) = 0.879 W/kq; SAR(10 q) = 0.279 W/kq

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



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

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Date: 2015/6/4

WLAN802.11 ac(20M) 5.6G_Body_Bottom_CH 136_Aux

Communication System: WLAN 5G; Frequency: 5680 MHz

Medium parameters used: f = 5680 MHz; $\sigma = 6.021 \text{ S/m}$; $\epsilon_r = 46.359$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): 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:

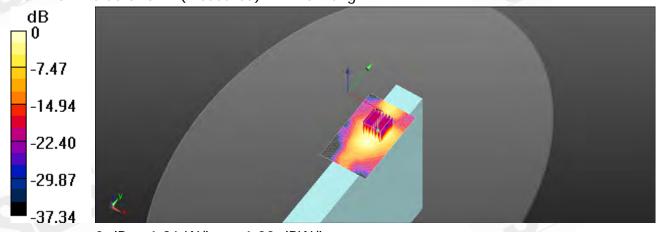
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.916 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 1.26 W/kg



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

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Date: 2015/6/4

WLAN802.11 n(40M) 5.6G_Body_Bottom_CH 134_Aux

Communication System: WLAN 5G; Frequency: 5670 MHz

Medium parameters used: f = 5670 MHz; $\sigma = 6.017 \text{ S/m}$; $\varepsilon_r = 46.38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 1.96 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

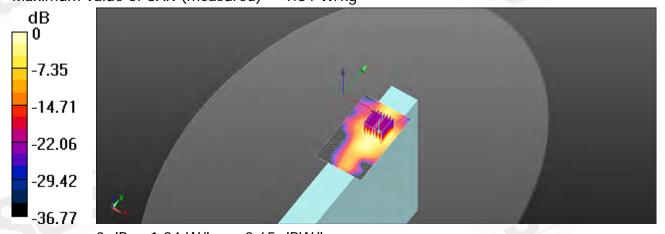
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.227 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 3.94 W/kg

SAR(1 q) = 0.913 W/kq; SAR(10 q) = 0.291 W/kq

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



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

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Date: 2015/6/4

WLAN802.11 ac(40M) 5.6G_Body_Bottom_CH 142_Aux

Communication System: WLAN 5G; Frequency: 5710 MHz

Medium parameters used: f = 5710 MHz; $\sigma = 6.041 \text{ S/m}$; $\epsilon_r = 46.241$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): 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:

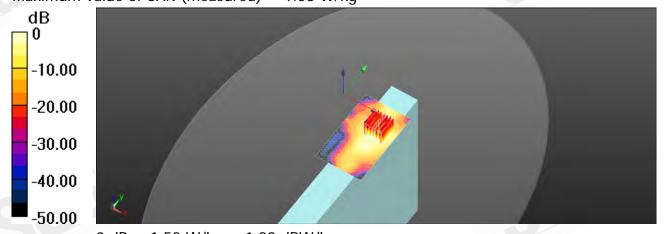
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.347 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 q) = 0.784 W/kq; SAR(10 q) = 0.250 W/kq

Maximum value of SAR (measured) = 1.58 W/kg



0 dB = 1.58 W/kg = 1.99 dBW/kg

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Date: 2015/6/1

WLAN802.11 ac(80M) 5.8G_Body_Bottom_CH 155_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz

Medium parameters used: f = 5775 MHz; $\sigma = 6.2$ S/m; $\epsilon_r = 46.085$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.33, 4.33, 4.33); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 1.72 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

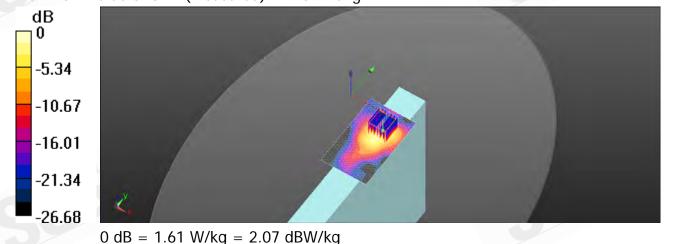
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.9590 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 0.810 W/kg; SAR(10 g) = 0.272 W/kg

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



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Date: 2015/6/5

Transceiver 2.4G_Body_Back_CH 74_0 degree_0mm

Communication System: Transceiver; Frequency: 2471 MHz

Medium parameters used: f = 2471 MHz; $\sigma = 2.059$ S/m; $\varepsilon_r = 51.146$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

• DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x81x1): Interpolated grid: dx=12 mm,

dy=12 mm

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

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

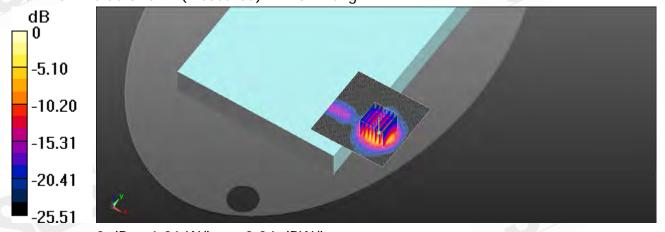
dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.435 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.241 W/kg

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



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

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Date: 2015/6/5

Bluetooth_Body_Bottom_CH 78

Communication System: Bluetooth; Frequency: 2480 MHz

Medium parameters used: f = 2480 MHz; $\sigma = 2.072 \text{ S/m}$; $\epsilon_r = 51.112$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (71x121x1): Interpolated grid: dx=12 mm,

dy=12 mm

Maximum value of SAR (interpolated) = 0.0956 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

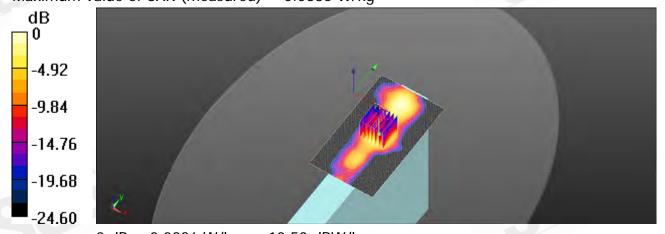
dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.798 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0886 W/kg



0 dB = 0.0886 W/kg = -10.53 dBW/kg

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6. SAR System Performance Verification

Date: 2015/6/16

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.964 \text{ S/m}$; $\varepsilon_r = 54.188$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

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

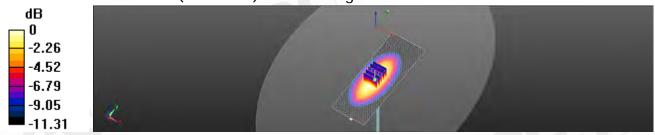
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.14 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.5 W/kg

Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kq = 4.47 dBW/kq

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Date: 2015/6/12

Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 0.955$ S/m; $\varepsilon_r = 54.344$; $\rho = 1000$ kg/m³

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: DAE4 Sn1374; Calibrated: 2015/5/6

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

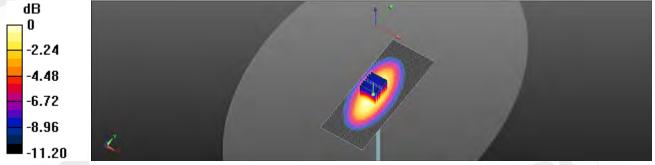
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.44 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 3.03 W/kg



0 dB = 3.03 W/kq = 4.81 dBW/kq

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Date: 2015/6/15

Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 0.963 \text{ S/m}$; $\varepsilon_r = 54.035$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

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

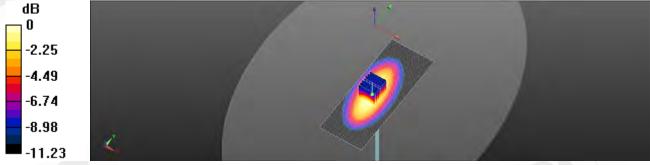
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.14 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.51 W/kg

Maximum value of SAR (measured) = 3.04 W/kg



0 dB = 3.04 W/kq = 4.84 dBW/kq

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Date: 2015/6/17

Dipole 1750 MHz_SN:1008

Communication System: CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.47 \text{ S/m}$; $\varepsilon_r = 52.225$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

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

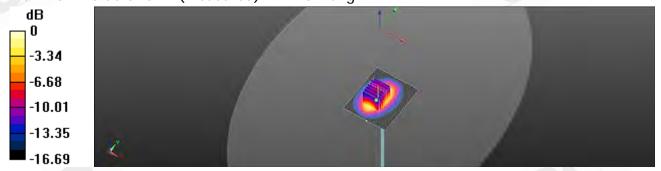
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.51 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 9.36 W/kg; SAR(10 g) = 5.08 W/kg

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



0 dB = 12.6 W/kg = 11.02 dBW/kg

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Date: 2015/6/11

Dipole 1900 MHz_SN:5d027

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.529 \text{ S/m}$; $\varepsilon_r = 52.226$; $\rho = 1000 \text{ kg/m}^3$

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: DAE4 Sn1374; Calibrated: 2015/5/6

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

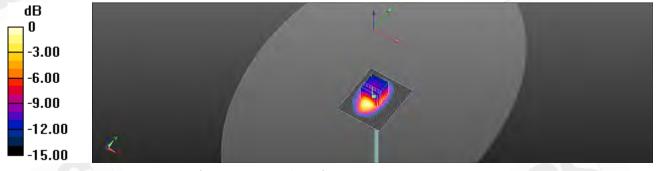
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.18 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.3 W/kg

Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kq = 11.37 dBW/kq

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Date: 2015/6/18

Dipole 1900 MHz_SN:5d027

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.536$ S/m; $\epsilon_r = 52.126$; $\rho = 1000$ kg/m³

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: DAE4 Sn1374; Calibrated: 2015/5/6

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

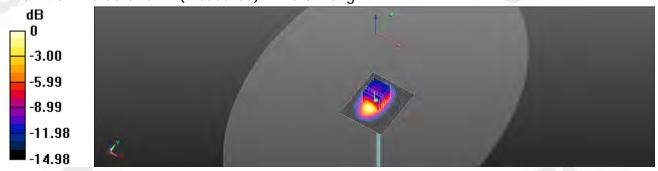
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.06 V/m; Power Drift = 0.00 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/kq = 11.39 dBW/kq

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Date: 2015/6/1

Dipole 2450 MHz_SN:727_Body

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.035 \text{ S/m}$; $\epsilon_r = 51.219$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12

mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.6 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement

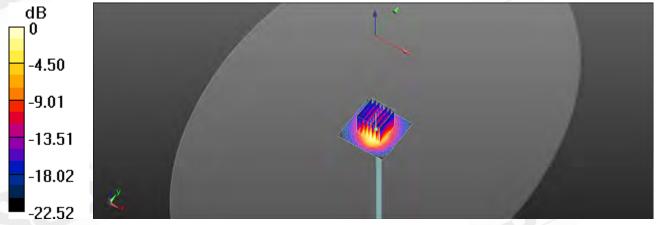
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.8 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 28.7 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.12 W/kg

Maximum value of SAR (measured) = 20.9 W/kg



0 dB = 20.9 W/kq = 13.20 dBW/kq

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Date: 2015/6/5

Dipole 2450 MHz_SN:727_Body

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.033 \text{ S/m}$; $\varepsilon_r = 51.254$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12

mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.4 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement

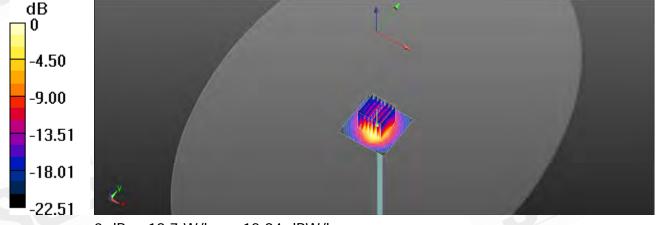
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.09 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 27.0 W/kg

SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.77 W/kg

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.94 dBW/kg

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Date: 2015/6/5

Dipole 2450 MHz_SN:727_Body

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.033 \text{ S/m}$; $\varepsilon_r = 51.254$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12

mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.4 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement

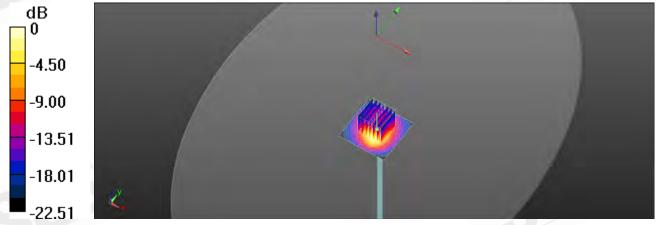
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.09 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 27.0 W/kg

SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.77 W/kg

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kq = 12.94 dBW/kq

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Date: 2015/6/2

Dipole 5200 MHz_SN:1023_Body

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 5.47 \text{ S/m}$; $\varepsilon_r = 47.895$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10

mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.3 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement

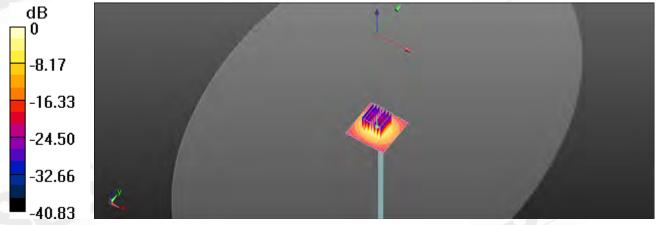
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.77 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 33.9 W/kg

SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.07 W/kg

Maximum value of SAR (measured) = 15.4 W/kg



0 dB = 15.4 W/kg = 11.88 dBW/kg

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Date: 2015/6/3

Dipole 5300 MHz_SN:1023_Body

Communication System: CW; Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 5.61 \text{ S/m}$; $\varepsilon_r = 47.584$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10

mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement

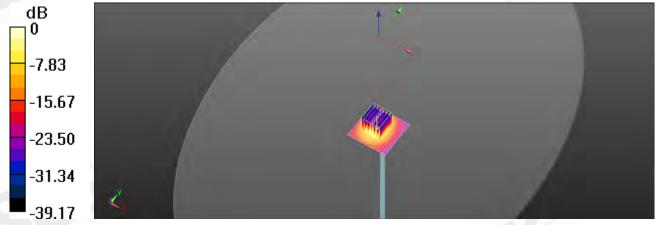
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 53.39 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 36.4 W/kg

SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.24 W/kg

Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kq = 12.38 dBW/kq

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台灣檢驗科技股份有限公司



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Date: 2015/6/4

Dipole 5600 MHz_SN:1023_Body

Communication System: UID 0, CW; Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; $\sigma = 5.99 \text{ S/m}$; $\varepsilon_r = 46.587$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10

mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement

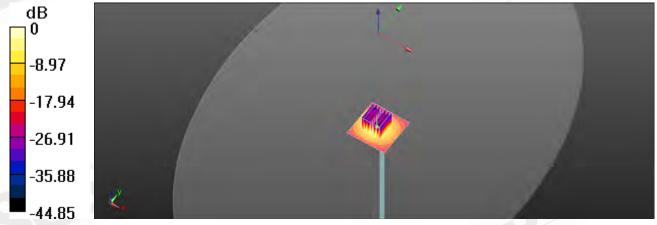
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 53.98 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 7.32 W/kg; SAR(10 g) = 2.01 W/kg

Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kq = 12.01 dBW/kq

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Page: 370 of 459

Date: 2015/6/1

Dipole 5800 MHz_SN:1023_Body

Communication System: CW; Frequency: 5800 MHz

Medium parameters used: f = 5800 MHz; $\sigma = 6.21 \text{ S/m}$; $\varepsilon_r = 46.008$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.33, 4.33, 4.33); Calibrated: 2015/4/28;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2014/8/27

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10

mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.4 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement

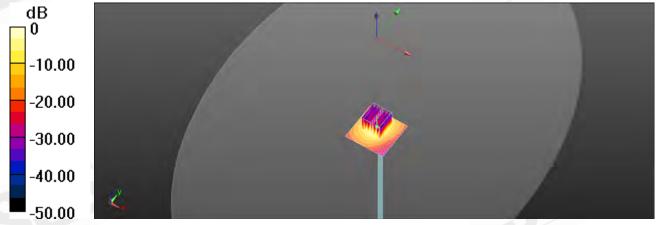
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 48.47 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 38.2 W/kg

SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.2 W/kg

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kq = 12.48 dBW/kq

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prosecuted to the fullest extent of the law.



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7. DAE & Probe Calibration Certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdie Service suisse d'étalonnage Servizio svizzero di tarature Swiss Calibration Service

According by the Swas According Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

SGS - TW (Auden)

Accreditation No.: SCS 108

Certificate No. DAE4-856_Aug14

CALIBRATION CERTIFICATE

Ottent

DAE4 - SD 000 D04 BM - SN: 856

Calibration procedure(s)

QA CAL-06.v26

Calibration procedure for the data acquisition electronics (DAE)

Clastivation date:

Primary Standards

August 27, 2014

This collibration conflicate documents the transability to national standards, which resilize the physical units of measurements (31). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate

All calibrations have been ponducted in the closed taboratory facility: environment temperature (22 ± 31% and humidity < 70%

Califiration Equipment used (M&TE critical for carbration)

IDL#

Keithley Musimeler Type 2001 SN 0810278 (71-Oct-13 (No. 13978) Oct-14 Auto DAE Calibration Unit SE UWS 053 AA 1001 07-Jan-14 (in house check) III hocae dhick, Jan-15 SE LAVIS 005 AA 1002 07-Jan-14 (in fouse check) Calibrator Box V2.1 In house check: Jan-15

Car Date (Certificase No.)

Calibrated by:

Function

Approved by:

This pallbration certificate shall not be reproduced except in full without written approval of the lapprajory

Берлу Тестика Мегед

Issued: August 27, 2014

Scheduled Calibration

Certificate No: DAEs-856_Aug 14

Page 1 of 5

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



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Schmid & Partner Engineering AG trasso 43, 9004 Zurich, Swit





rvice suisse d'étalormage Servicio svizzero di taratura Swice Calibration Service

Accreditation No.: SCS 108

According by the Seiss Accordington Service (SAS)

The Swiss Accreditation Service is one of the algustories to the EA Michigan Agreement for the recognition of calibration certificates

Glossary

data acquisition electronics DAE

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
 - 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
 - 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

Centificate No: DAE4-866_Aug 14

Fage 2 of 5

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sas.com

Member of SGS Group



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DC Voltage Measurement

A/D - Converter Resolution nomina

High Range: ILSB = 100,_+300 mV full range = -1 Low Range: 1LSB = 61nV : VmE+ DASY measurement parameters: Auto Zoro Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Ÿ	Z
High Range	403,468 ± 0.02% (k=2)	404.581 ± 0.02% ((+2)	403.903 ± 0.02% (k-2)
Low Range	3.97681 ± 1.50% (k-2)	3.97783 ± 1.50% (k=2)	3.97815 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	52.5 °± 1 °

Certificate No. DAE4-856_Aug14

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Appendix (Additional assessments outside the scope of SCS108)

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	#9999B33	0.84	0.00
Channel X + Input	19990.20	32.25	+0,01
Channel X - Input	20000.45	0,34	-0,00
Channel Y + Input	199999.95	0.96	0.00
Channel Y + Input	19997,51	-3.82	-0,02
Channal Y Input	-2000n 77	0.07	-0,00
Channel Z + Input	199997.26	0.19	-0,00
Channel Z + Input	19997.65	-3.57	-0.02
Channel Z - Input	-20002.47	1.55	0.01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2001.05	-0.09	-0,00
Channel X + Input	202,34	0.60	0.40
Channel X - Input	-198.21	0.26	-0.13
Channel Y + Input	2001.39	0;26	0.01
Channel Y + Input	201.08	-0,36	0.18
Channel Y - Input	-199,24	-0.78	0,39
Channel Z # Input	2000.92	-0.18	-0.01
Channel Z + Input	200,26	-1.22	-0.60
Channel Z - Input	-199,91	+1/47	0.74

2. Common mode sensitivity

ement perameters: Auto Zero Time: 9 sec: Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (µV)	Low Range Average Reading (µV)
Channel X	200	-14,76	-16.42
	-200	17.19	15,88
Channel Y	500	+2.17	2,25
	+200	0.39	.0.01
Channel Z	200	10.27	10,05
	-300	-13.06	-12.03

3. Channel separation

	Input Voltage (mV)	Channel X (µV)	Channel V (µV)	Channel Z (µV)
Channel X	200		2.81	-1.15
Channel Y	200	7.99		.3:07
Channel Z	200	8.55	5.24	-

Cartilizate No: DAE4-856_Aug14

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4. AD-Converter Values with Inputs shorted

	High Range (LSB)	Low Range (LSB)
Channel X	16226	18620
Channel Y	15942	16803
Channel 2	15875	16811

5. Input Offset Measurement

DASY measurement parameters. Auto Zero Time: 3 sec; Measuring time: 3 sec

In			

	Average (μV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	0.72	+0.77	1.89	0.38
Channel Y	-0.24	-1.07	1,89	0,42
Channel Z	-0.98	-2.01	0.07	0.40

6. Input Offset Current

Nominal input circuitry offset current on all channels <25fA

7. Input Resistance (Typical values for information)

711-11-2	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	500	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.0

9. Power Consumption (Typics values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vee)	:+0.01	+6.	+14
Supply (- Vcc)	-0:01	-8	-9

Certificate No DAE4-856_Aug14

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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

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

SGS-TW (Auden)

Certificate No: DAE4-1374_May15

CALIBRATION CERTIFICATE

Object

DAE4 - SD 000 D04 BM - SN: 1374

Calibration procedure(s)

QA CAL-06.v29

Calibration procedure for the data acquisition electronics (DAE)

Calibration date:

May 06, 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
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		06-Jan-15 (in house check)	In house check: Jan-16
Calibrator Box V2.1	SE UMS 006 AA 1002	06-Jan-15 (in house check)	In house check: Jan-16

Calibrated by:

Name R.Mayoraz Technician

Approved by:

Deputy Technical Manager

Issued: May 6, 2015

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-1374_May15

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Calibration Laboratory of Schmid & Partner

Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst Service suisse d'étalonnage 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

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.

Certificate No: DAE4-1374_May15

Page 2 of 5

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, , ,



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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1L\$B = 6.1µV, full range = -100...+300 mV 1LSB = 61nV, full range = -1.....+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	х	Υ	Z
High Range	405.241 ± 0.02% (k=2)	405.484 ± 0.02% (k=2)	405.011 ± 0.02% (k=2)
			3.98770 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY sys	stem	245.0 ° ± 1 °

Certificate No: DAE4-1374_May15

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200027.58	-3.42	-0.00
Channel X + Input	20005.73	2.63	0.01
Channel X - Input	-20003.18	3.04	-0.02
Channel Y + Input	200027.12	-3.98	-0.00
Channel Y + Input	20002.62	-0.35	-0.00
Channel Y - Input	-20006.98	-0.59	0.00
Channel Z + Input	200031.31	-0.10	-0.00
Channel Z + Input	20000.66	-2.25	-0.01
Channel Z - Input	-20008.41	-1.94	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	1999.56	-0.09	-0.00
Channel X + Input	199.64	0.05	0.02
Channel X - Input	-201.87	-1.56	0.78
Channel Y + Input	1999.63	0.03	0.00
Channel Y + Input	198.55	-0.89	-0.45
Channel Y - Input	-201.10	-0.69	0.35
Channel Z + Input	2000.11	0.64	0.03
Channel Z + Input	197.27	-2.23	-1.12
Channel Z - Input	-202.39	-1.99	0.99

2. Common mode sensitivity

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-6.38	-8.61
	- 200	9.68	7.55
Channel Y	200	3.79	3.72
	- 200	-5.43	-6.05
Channel Z	200	-15.24	-15.61
	- 200	12.53	12.72

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 se

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	6.28	-2.15
Channel Y	200	9.34	-	7.43
Channel Z	200	9.24	6.77	-

Certificate No: DAE4-1374_May15

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Mea

	High Range (LSB)	Low Range (LSB)
Channel X	16120	15044
Channel Y	15972	15769
Channel Z	16364	15426

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	-0.68	-1.85	0.72	0.51
Channel Y	-1.37	-2.25	-0.26	0.36
Channel Z	1.05	-0.13	2.45	0.53

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	Transmitting (mA)		
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Certificate No: DAE4-1374_May15

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Calibration Laboratory of Schmid & Partner Engineering AG aughausstrasse 43, 6004 Zurick, Switterland





Service suitse d'étalonnape Servizio evizzero di faratura viss Calibration Service

Accredied by the Swes Accreditation Service (BAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificate

SGS-TW (Auden)

Appreciation No.: SCS 108

Certificate No: EX3-3923 Aug 14

CALIBRATION CERTIFICATE

EX3DV4 - SN:3923

Califration procedure(s)

QA GAL-01.v9, QA CAL-14.v4, QA GAL-23.v5, QA GAL-25.v6

Calibration procedure for dosimetric E field probes

Californium date:

August 28, 2014

The calibration confidents documents the bacophility to national standards, which healed the physical units of imposurements (Si). The manusements and the uncertainties with confidence propatelly are given on the following pages and are part of the certification

All calibrations have been conducted in the closed intocatory facility, environment temperature (22 ± 3)°C and number < 70%

Galibration Equipment used IM&TE critical for calibration)

Primary Standards	10	Cat Date (Cattificate No.)	Scheduled Calibration
Power minter E44198	G841293874	03-Apr-14 (No. 217-01811)	Apr-15
Power serior E4412A	MY41498087	03-Apr:14 (No. 217-01911)	April 5
Reference 3 dft Attenuator	SN: 55054 (3c)	03-Apr-14 (No. 217-01915)	April 15
Reference 20 dB Attenuator	SN: 85277 (20x)	03-Apr-14 (No. 217-01919)	Apr-15
Reference 30 dB Attenuelor	SN. SS129 (30b)	II3-Apr-14 (No. 217-01920)	April 15
Reference Probe E830V2	SM: 3013	30-Dec-13 (No. ESS-3013 Dec13)	Dep-14
DAE4	SN, 660	13-Dec-13 (No. DAE4-650_Dec13)	Dec-14
Secondary Standards	10	Check Date (in house)	Scheduled Chick
RF generator HP 8648C	LIS3642U01700	4-Aug-99 (in house check Acr-13)	in house check. Apr-16
Network Ababzer HP 8753E	U837390585	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

Calibrated by sme L wood Laboratory Featmont Elmoseum Tuctivisal Milesagui Approved by Issueri August 26, 2014 This contration certificate shall not be reproduced supply to full will our written acquired of the laborator

Certificate No. EX3-3955 Aug 14

Page 1 of 11

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Schmid & Partner Engineering AG





Schweizenscher Kalterentieren Service suisse d'étaionnage C Servicio sylzzero di paretora Swiss Calibration Service

Acceptitation No.: SCS 108

Accredited by the Same Accreminator Service (SAS)

The Swise Accreditation Service is one of the signatories to the Elli Multilearni Agmement for the recognition of calibration certificate

Glossary:

fesure simulating liquid sensitivity in free space TSI. NORMK.y.z sensitivity in TSL / NORMx, y.z. CONVE

diode compression point crest factor (1/duty_cycle) of the RF signal A B C D modulation dependent linearization parameters

Polarization in a rotation around probe axis.

in repeated an axis that is in the plane normal to probe asis (at measurement public), Polarization it

i.e., $\eta=0$ is normal to probe existinformation used in DASY system to align probe sensor X to the robot coordinate system. Connector Angle

Calibration is Performed According to the Following Standards:

- 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: Minasurement
- Techniques", June 2013
 IEC 62209-1, "Procedure to measure the Specific Atsorption 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 $B \approx 0$ (f = 100 MHz in TEM-stall; T > 1800 MHz. R22 waveguide). NDRMx, y, z are only intermediate values. i.e., the uncontainties of NORMx, y, z does not affect the E^2 -field interactionty inside TSL (see below GonwF).
- MCRM(f)x,y,z = MCRMx,y,z * frequency_response (see Frequency Response Chart). This linearization ∈ implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response ≼ included in the stated uncertainty of ConvF.
- DCPx.y.z: CCP 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 in Average Ratio that is not calibrated but determined based on the signal
- $Ax_iy_i z_i \, \exists x_iy_i z_i \, \exists x_iy_i z_i \, \forall Rx_iy_i z_i \, A_i B_i \, C_i \, D_i$ an 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 $l \le 800$ MHz) and inside waveguide using enalytical field distributions based on power measurements for $l \ge 800$ 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 achiware to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to WORMs,y,z.* ConvF. A frequency dependent ConvF a used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100
- Spherical isotropy (3D deviation from isotropy), in a field of low gradients realized using a flat phantom
- 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 gamed by determining the WORMs (no uncertainty required),

Cartingate No. EX3-3923 Aug 14

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EX 10VA - SVLTVE

y800006139-5000



Probe EX3DV4

SN:3923

Manufactured; Calibrated:

March 8, 2013 August 28, 2014

Calibrated for DASY/EASY Systems (Note: non-compatible will DASV2 system))

Cortificate No: EX3-3923, Aug 14

Priper 2 of TT

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EX3DV4-5N 3973

Avagost set 2014

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

Basic Calibration Parameters

	Sensor	Sensor Y	Sensor Z	Linc (k=2)	
Norm (µV/(V/m)*)*	0.58	0.48	0.47	±10,1%	
DICP (mV)"	99.2	102.2	103.3		

Modulation Calibration Parameters

UID	Communication System Name		A tills	B dBõV	C	dB	WR mV	Unc (k=Z)
O .	CW	X	0.0	0.0	1.0	0.00	132.9	43.0 %
		Ÿ	0.0	-0.0	1.0		134.8	
		2	0.0	0.0	1.0		135 ()	

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%.

Certificate No. EX3-3923 Aug 14

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The uncontribute of NormX V / do not effect the E field underturny make TS. (see Page 5 4nd 6).

Normalization parameter uncontainty our required.

Uncontainty is determined using the mak, devarion from most response appoints vector prior definitions and it expressed for the equals of the



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EX30V4 SN:3923

August 20, 2014

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

ter Datemalised in Head Thomas Circulation Media

r (MHz) ^E	Relative Permittivity	Conductivity (S/m)	ConvF X	ConvF V	ConvF Z	Alphé ⁹	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 W
900	41.5	0.97	10.26	10.26	10.26	0.17	1.53	± 12-0.9
1750	40.1	3.37	8.72	B,72	8.72	0.75	0.57	± 12.0 %
1900	40.0	1.40	3.42	8.42	8.42	0.45	0.77	±12.09
2000	40.0	1.48	8.46	5,46	B.46	0,67	0.63	± 12.0 %
2300	39.5	1.67	B.02	5.02	W.02	0.35	0.85	±12.09
2450	39.2	1.80	7.66	7,66	7,66	0.33	0.87	112.03
2600	39.0	1.96	7.41	7.41	7:41	0.35	0.86	±12.09
5200	36.0	4.68	5.17	5.17	5.17	0.35	1.80	+13.1 9
5300	35.9	4.76	4.99	4.99	4,99	0.35	1.80	±13.19
SECKT	35,5	5.07	4.71	4.71	4.71	0.40	1.80	±13.19
5600	35.3	5.27	4.67	4.67	4.67	0.40	1.B0	± 13.1 9

Frequency wilding wave 300 MHz of ± 100 MHz only applies to DASY will 4 and highly (use Page 2), who is intrestricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at perfect on the uncertainty is the original briganized briganized being which is not a second of the 100 MHz of 200 MHz of

Cermicate No. EX3-3923 Aug 14

Page 5 of 11

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E830V4- SN:3022

August 28, 2014

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

Calibration Parameter Determined in Body Tissue Simulating Media

(MHz)	Relative Permittivity	Conductivity (S/m)	ConvF X	ConvFY	ConvF2	Alphu ^u	Depth D (mm)	Unct. (k=2)
750	55.5	0.96	10.29	10.29	10.29	0.30	1.04	± 12.0.%
03E	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	± 12.01%
1900	53,3	1,52	8.03	B 03	8.03	0.30	0.95	± 12.0 %
2000	53,3	1.52	8.16	B.16	8.16	0.23	116	± 12.0 %
2300	62.9	1.01	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	216	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	W.09	4:09	0.40	1.00	±13.19
5800	48.2	6.00	4.33	4,33	4:33	0.40	1.90	2 13,1 3

Frequency validity above 300 MHz of a 100 MHz only applies for DASY VII if and higher (see Page 2), when it is connected to 4 50 MHz. The "Finguncy validly obsers 300 MHz of ± 100 MHz only applies for DASY vill 4 and higher (see Page 2), a feet this remember is 4.50 MHz. The uncertainty in the RSS of the Count projections at content or here are content for the indicated frequency band. Finguisher, validly below 300 MHz or ± 0.35, 40, 50 and 70 MHz for Count assumption at 30, 54, 128, 150 and 200 MHz or specified; Above 6 GHz they addity on the exception of 200 MHz or 200 MHz or specified; Above 6 GHz they addity of asset parameters (a and a) can be released to ± 10% (injud) compressed from 45 septiments above 5 GHz, the validity of asset parameters (a and a) to be be released to ± 10% (injud) compressed from 45 septiments above 5 GHz, the validity of issue parameters (a and a) is remitted to ± 5%. The uncertainty for indicated target throughout the configuration and to be configurated to ± 5%. The uncertainty for indicated target throughout are distinctioned auring satisfactors. SPEAG semants that the remaining deviation are 10% for transferred auring satisfactors. SPEAG semants that the remaining deviation are 10% for transferred auring satisfactors. SPEAG semants that the remaining deviation are 10% for transferred auring satisfactors. SPEAG semants that the remaining deviation are 10% for transferred and the first transferred auring satisfactors.

Certificate No. EX3-3923, Aug 14

Page E of 11

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EX3DV4- SN:3923

August 28, 2014

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)

1.0 Frequency response (normalized) 0.9 0.8 0.7 3000 2500 500 1000 f [MHz] TEN

Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: EX3-3923, Aug/14

Page 7 of 11

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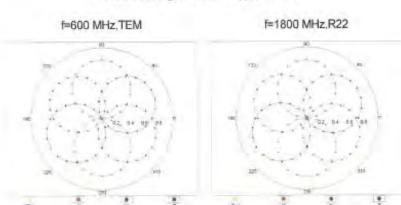


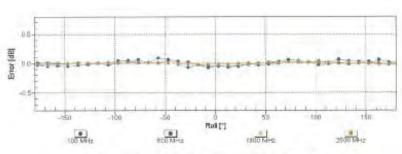
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EX3DV4-SN:3923

August 28, 2014

Receiving Pattern (6), 9 = 0°





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: EX3-3923_Aug14

Page 8 of 11

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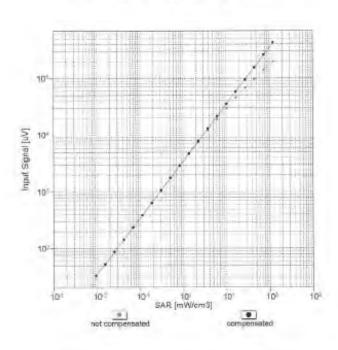


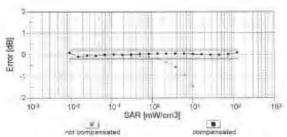
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EX3DV4- SN:3923

August 28, 2014

Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3923_Aug14

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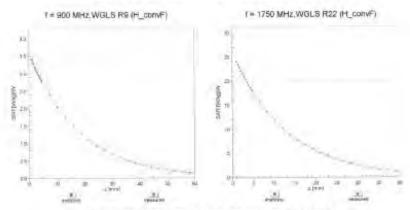
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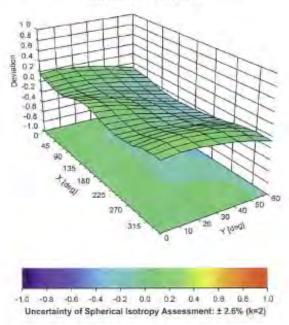
August 29, 2014 EX3DV4- SN:3923

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (¢, 9), f = 900 MHz



Certificate No: EX3-3923_Aug 14

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EXCIDVA 8N:3923

August 28, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

Other Probe Parameters

Sensor Arrangament	Triangular
Connector Angle (*)	-57
Mechanical Surface Delection Mode	anabled
Optical Surface Dejection Mode	disabled
Probe Overall Length	337 min
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

Certificate No. EX3-3925, Aug 14

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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

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

Client

SGS-TW (Auden)

Certificate No: EX3-3770_Apr15

CALIBRATION CERTIFICATE

EX3DV4 - SN:3770

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:

April 28, 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	01-Apr-15 (No. 217-02128)	Mar-16
Power sensor E4412A	MY41498087	01-Apr-15 (No. 217-02128)	Mar-16
Reference 3 dB Attenuator	SN: S5054 (3c)	01-Apr-15 (No. 217-02129)	Mar-16
Reference 20 dB Attenuator	SN: S5277 (20x)	01-Apr-15 (No. 217-02132)	Mar-16
Reference 30 dB Attenuator	SN: S5129 (30b)	01-Apr-15 (No. 217-02133)	Mar-16
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

Jeton Kastrati		
Jeton Kastrati	Laboratory Technician	1
Katja Pokovic	Technical Manager	Buy
		Issued: April 30, 2015
		Katja Pokovic Technical Manager not be reproduced except in full without written approval of the laborator

Certificate No: EX3-3770_Apr15

Page 1 of 11

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service sulsse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

tissue simulating liquid TSL NORMx,y,z sensitivity in free space sensitivity in TSL / NORMx,y,z ConvF DCP diode compression point

crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters CF A. B. C. D

p rotation around probe axis Polarization in

9 rotation around an axis that is in the plane normal to probe axis (at measurement center). Polarization 9

i.e., 9 = 0 is normal to probe axis

information used in DASY system to align probe sensor X to the robot coordinate system Connector Angle

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 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 9 = 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 E2-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
- 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 \pm 50 MHz to \pm 100
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom
- 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: EX3-3770_Apr15

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EX3DV4 - \$N:3770

Report No.: EN/2015/50004 Page: 394 of 459





Probe EX3DV4

SN:3770

Manufactured: Calibrated:

July 6, 2010 April 28, 2015



Certificate No: EX3-3770_Apr15

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FX3DV4-SN:3770

April 28, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Dasic Calibration Fara		0V	S7	Line /le=2\
	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.31	0.62	0.40	± 10.1 %
DCP (mV) ⁸	105.3	100.7	101.6	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^E (k=2)
0	CW	Х	0.0	0.0	1.0	0.00	145.1	±3.8 %
		Y	0.0	0.0	1.0		129.4	
		Z	0.0	0.0	1.0		138.4	

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%.

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.

5 Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the

Certificate No: EX3-3770_Apr15

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April 28, 2015 EX3DV4-SN:3770

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Calibration Parameter Determined in Head Tissue Simulating Media

alibration 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	9.53	9.53	9.53	0.26	1.28	± 12.0 %	
835	41.5	0.90	9.13	9.13	9.13	0.21	1.53	± 12.0 %	
900	41.5	0.97	8.89	8.89	8.89	0.23	1.38	± 12.0 %	
1450	40.5	1.20	8.19	8.19	8.19	0.18	1.59	± 12.0 %	
1750	40.1	1.37	8.04	8.04	8.04	0.38	0.80	± 12.0 %	
1900	40.0	1.40	7.82	7.82	7.82	0.36	0.80	± 12.0 %	
2000	40.0	1.40	7.81	7.81	7.81	0.36	0.80	± 12.0 %	
2300	39.5	1.67	7.47	7.47	7.47	0.27	0.96	± 12.0 %	
2450	39.2	1.80	7.16	7.16	7.16	0.34	0.80	± 12.0 %	
2600	39.0	1.96	6.85	6.85	6.85	0.34	0.92	± 12.0 %	
5250	35.9	4.71	5.27	5.27	5.27	0.30_	1.80	± 13.1 %	
5600	35.5	5.07	4.65	4.65	4.65	0.35	1.80	± 13.1 %	
5750	35.4	5.22	4.92	4.92	4.92	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.

**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.

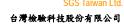
**Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: EX3-3770_Apr15

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EX3DV4-SN:3770

April 28, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Calibration Parameter Determined in Body Tissue Simulating Media

illoration 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	9.30	9.30	9.30	0.25	1.38	± 12.0 %
835	55.2	0.97	9.17	9.17	9.17	0.34	1.05	± 12.0 %
900	_55.0	1.05	8.91	8.91	8.91	0.30	1.20	± 12.0 %
1450	54.0	1.30	8.12	8.12	8.12	0.18	1.62	± 12.0 %
1750	53.4	1.49	7.79	7.79	7.79	0.44	0.80	± 12.0 %
1900	53.3	1.52	7.59	7.59	7.59	0.44	0.80	± 12.0 %
2000	53.3	1.52	7.73	7.73	7.73	0.42	0.80	± 12.0 %
2300	52.9	1.81	7.32	7.32	7.32	0.41	0.80	± 12.0 %
2450	52.7	1.95	7.21	7.21	7.21	0.31	0.80	± 12.0 %
2600	52.5	2.16	6.96	6.96	6.96	0.27	0.80	± 12.0 %
5250	48.9	5.36	4.70	4.70	4.70	0.35	1.90	± 13.1 %
5600	48.5	5.77	4.03	4.03	4.03	0.45	1.90	± 13.1 %
5750	48.3	5.94	4.33	4.33	4.33	0.50	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.

**PAt 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.

**Alphat/Pepth 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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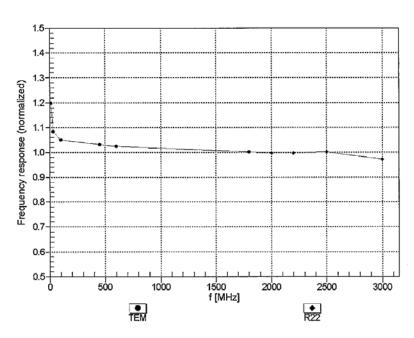
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EX3DV4-SN:3770

April 28, 2015

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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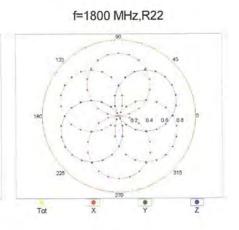


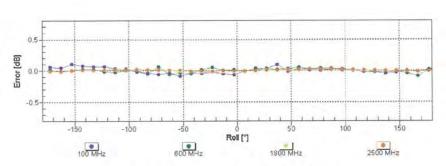
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EX3DV4-SN:3770 April 28, 2015

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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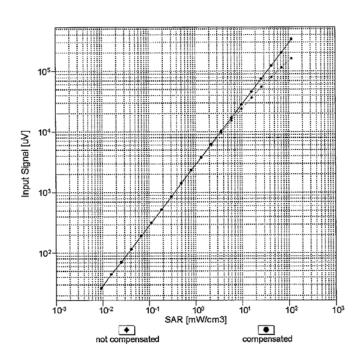


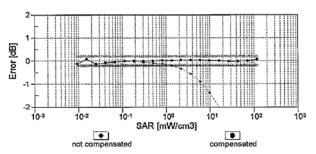
April 28, 2015

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EX3DV4-SN:3770

Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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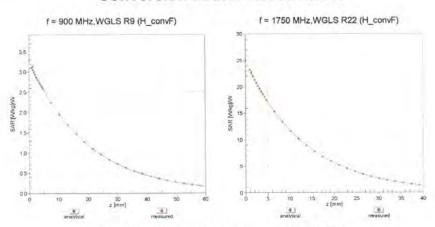
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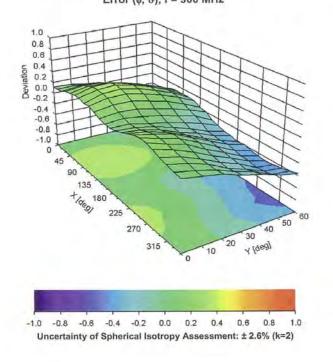
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April 28, 2015 EX3DV4- SN:3770

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz



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April 28, 2015 FX3DV4-- SN:3770

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-32.7
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



Certificate No: EX3-3770_Apr15

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8. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test

A	С	D	е		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 Vef
Measurement system									(e
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%	00
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									(0
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%	М
Deviation from reference liquid target σ (Body)	3.74%	N	1	1	0.6	0.49	2.24%	1.83%	М
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		RSS	16				11.99%	11.82%	
uncertainty Expant uncertainty (95% confidence interval), K=2							23.97%		

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9. Phantom Description

Schmid & Panner Engineering AG

Zeughausstasse 42, 8004 Zurch, Swiczerland Phone +41 1 245 9709, Fax +41 1 245 9779 http://www.seeg.com

Certificate of Conformity / First Article Inspection

tiens	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 amitation 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 competibility.	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 Sid 1528-2003
- IEC 62209 Part I
- The IT'S 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 cartify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4].

07.07.2005

Signature / Stamp

Direction 881 - QQ 000 040 C-F

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10. System Validation from Original Equipment Supplier

Calibration Laboratory of Schmid & Partner Engineering AG





S Service suisse d'étalonnaire C Servizio svizzero di taratura S

Accredited by the Swiss Accreditation Service (BAS)

The Swiss Accreditation Service is one of the signatures to the EA Multilateral Agreement for the recognition of calibration certificates

SGS-TW (Auden)

Certificate No: D750V3-1015_Aug14

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE D750V3-SN 1015 Calibration procedura(s) Calibration procedure for dipole validation kits above 700 MHz August 28, 2014 This contribution certificate documents the traceposity to national standards, which during the physical units of magazinements (Ei). The measurements and the uncertainties with confidence probability are given on the following pages and are pain of the certificani. Afrostorators have been conducted in the closed laboratory facility environment temperature (12 ± 37°C and humidity < 70% Primary Standards Piwer meter EPM-482A GB374H0704 00-Cet-13 (No. 217-01827) Dct-14 uS37292783 Oct-16 Power sensor HP 8481A 09-Oct-13 (No. 217-01827) Power sensor HP 8481 A MY41002317 09-Oct-13 (No. 217 01828) DEE-14 Neterice 20 dB Attenuator SN. 5058 (20k) 03-Apr-14 (No. 217-01916) AD1-15 Type-N mismatch combination 9N: 5047.2 / 00327 03-Apr-14 (No. 217-01921) Apr-15. Finterense Probe ES3DV3 BN: 3205 30-Dec-13 (No. ES3-3205, Dec13) Dec 14 SN: 601 (B-Aug-14 (No. DAE4-63) Aug 14) Aug-15 Secondary Standards RF generator RAS SMT-06 Cheex Date (in house Scheduled Check in house check. Oct-16 100006 04-Aug-99 (in house check Oct-15) Network Analyzer HP 8753E US37390585 B4208 18-Oct-01 (in house check Oct-13) in house chack: Oct-1a Function Michael Wilder Laboratory Technician Californian by M. Webes Katju Pólicivia: Technical Aumyre Issued August 26, 2018 This calloration partitipage shall not be reproduced bridget in full without written approval of the laboratory

Certificate No: D750V3-1015 Aug14

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Calibration Laboratory of Schmid & Partner Engineering AG Zeughaussträuse 43, 800+ Zurich, Switzerland





Service suisse d'étainmane

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Accorditation No.: SCS 108

Ascentilled by the Swiss Accordington Service (SAS)

The Swiss Accombishion Service in one of the agranding to the EA Mustilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

ConvF N/A

sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, TEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- 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
- d) 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%.

Certificate New 0750V3-1015 Aug 14

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.5
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	#2.2 ± 6 %	0,91 mho/m ± 6 %
Head TSL temperature change during lest	< 0.5 °C		-

SAR result with Head TSL

SAR averaged over 1 cm2 (1 g) of Head TSL	Condition	
SAR measured	250 mW Input power	2.11 W/kg
SAR for pominal Head TSL parameters	normalized to 1W	8.31 W/kg ± 17.0 % (km2)

5AR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input prover	1.38 W/kg
SAR for nominal Head TSL parameters	insimalized to TW	5.45 W/kg ± 16.5 % (k=2)

Body TSL parameters

ny itau parameters The following personeters and estadations were profited

	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±8%	0.99 mho/m ± 6 %
Body TSL temperature change during lest	< 0.5 %	1,660	name of

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAR measured	950 mW input power	2,24 W/kg
SAR for nominal Body TSL parameters	nermalized to 1W	8.75 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	condition	
SAR measured	250 mW Input power	1.49 W/kg
SAR for nominal Body TSL gammeters	normalized to 1W	5.85 W/kg ± 16.5 % (k=2)

Centicate No: 0750V3+1015_Aug14

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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
Electrical Dollay (one direction)	1,001 10

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

Certificate No: D750V3-1015_Aug14

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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; $\sigma = 0.91 \text{ S/m}$; $\varepsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

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)
- Electromics: 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

Cartificate No: D750V3-1015_Aug14

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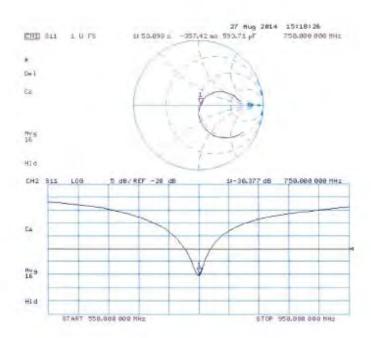
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Impedance Measurement Plot for Head TSL





Certificate No: D750V3-1015_Aug14

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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; $\sigma = 0.99 \text{ S/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63,19-2011)

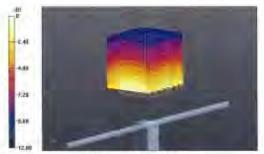
DASY52 Configuration:

- 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 = 40.02 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

Certificate No D750V3-1015_Aug/4

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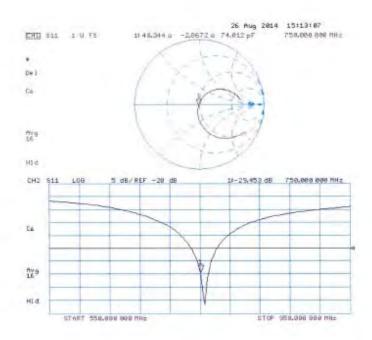


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Impedance Measurement Plot for Body TSL

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Certificate No: D750V3-1015_Aug14

Page 8 of 8

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Accorditation No.: SCS 108

Certificate No. D835V2-4d063_Aug14

CALIBRATION CERTIFICATE

D835V2 - SN: 4d063

Clarevation procedure(b)

QA CAL-05.v9
Calibrating procedure for dipple vs

Calibration procedure for dipole validation kits above 700 MHz

Ontoroton date: August 28, 2014

Tits calibration certificate occuments the inaspectaty to national standards, which malize the physical units of measurements (Sti). The manasurements and the inconsentes with confidence probability are given on the following pages and are part of the certificate.

All calibrature have been conducted in the placed beginning leading, programment temporals to (22 ± 3)°C and hamidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID:4	Cal Date (Certificate No.)	Scheduled Calibration
Power meller EPM-442A	3837480704	09-Oct-13 (No. 217-01627)	Gra-14
Pawer sensor HP 8461A	US37292783	09-Cist-13 (No. 217-31827)	Oct-14
Power sensol HP 8481A	MY41092317	09-06-13 (No. 217-91828)	Ott-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01816)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Palemene Prope ES3DV a	SN: 3206-	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	18-Aug-14 (No DAE4-601_Aug14)	Aug-15
Secondary Standards	ma	Creck Date (in house)	Schoolwed Chack
RF generator R&S SMT-ce	100006	04-Aug-89 (in house check Oct-13)	In House check: Oct 16
Tvetwork Arvayzer HP 8753E	US37390585 54206	18-Cicl-U1 (in house check Cicl-15).	th house chars, Oct-14
	Name	Function	Signature
Californial by:	Michael Walter	Salamitory Technicien	M. Weboo
Approved by:	Kinja Pokova:	Technical Menager	10115-

Certificate No: D835V2-4d063_Aug14

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Issued: August 25, 2014



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recomition No. 5CS 108

According to the Swee Application Service (BAS)

The Swiss Appreciation Service is one of the signatures to the EA Mulfillabe of Agreement for the recognition of calibration cartific

Glossary:

TSL tissue simulating liquid

sensitivity in TSL / NORM x,y,z ConvE NVA 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%

Certificate No: D835V2-4df6:L Audi vi

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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

	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 mha/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	****	

SAR result with Head TSL

SAR averaged over 1 cm ² (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 cm3 (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

	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 ² (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 cm3 (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)

Certificate No: D835V2-4d063_Aug14



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Appendix (Additional assessments outside the scope of SCS108)

Antenna Parameters with Head TSL

Impedance: transformed to fitted point	51,7 \O - 3,6 \(\overline{1} \)	
Return Loss	-28.2 dB	

Antenna Parameters with Body TSL

Impedance, transformed to fired point	47.111-16.61	
Ration Loss	-23.7 dB	

General Antenna Parameters and Design

382 T 195

After long farm use with 100VV radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard symfrigin coaxial cable. The cemer conductor of the feeding line at threatly connected to the second ann 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 leaded according to the position as explained in the

"Measurement Conditions" paragraph. The SAR data are not affected by this change. The overell dipole length is still according to the Standars.

No excessive large 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; $\sigma = 0.94$ S/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Phantom section; Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63,19-2011)

DASY52 Configuration:

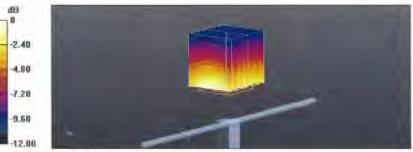
- Probe: ES3DV3 SN3205; ConvF(6.22, 6.22, 6.22); Calibrated: 30.12,2013;
- · Sensor-Surface: 3mm (Mechanical Surface Detection)
- · Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial; 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5nim, dy=5min, dz=5nim 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: D835V2-4c083_Aug14

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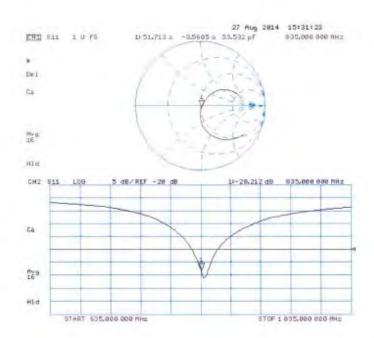


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Impedance Measurement Plot for Head TSL

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DASY5 Validation Report for Body TSL

Date: 27.08.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

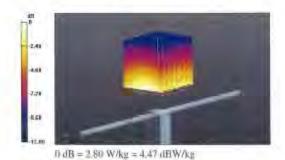
Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz; $\sigma = 1.01 \text{ S/m}$; $\varepsilon_c = 55.2$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(6.09, 6.09, 6.09). Calibrated: 30.12.2013;
- Sensor-Surface; 3mm (Mechanical Surface Detection)
- Efectronics: 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



Certificate No: D835V2-4d063_Aug14

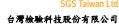


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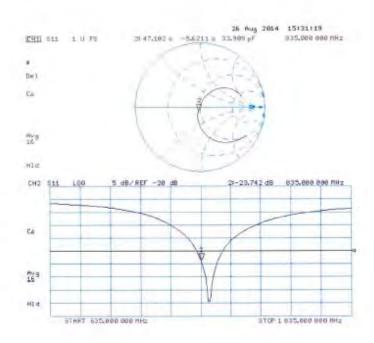




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Impedance Measurement Plot for Body TSL





Certificate No: D835V2-4d063_Aug14

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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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The Swiss Accreditation Service is one of the signatories to the EA Multitalizal Agreement for the recognition of calibration partificates

SGS-TW (Auden)

Accreditation No.: SCS 108

Certificate No: D1750V2-1008_Aug14

CALIBRATION CERTIFICATE

D1750V2 - SN: 1008

QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz

Galitration mitel

August 26, 2014

This curbration certificate documents the traceability on retional standards, which results the physical units of measurements (50). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate

All caliprations have been conducted in the order laboratory actify: environment, emperature (52 ± 3)°C and injuricity > 70%

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	(C).4	Cal Date (Certificate No.)	Scheduled Calibration
Fower meter EPM-442A	GB37480704	76+Oct-13 (No. 217-01827)	Oct-14
Power sensor HF 8481A	0937292783	09-0d-13 (No. 217-01827)	Cica-1a
Power sensor HP 8481 A	MY41092317	09-Out-13 (No. 217-01828)	Oct 14
Relevence 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type N mismatch combination	BN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr 15
Reference Probe ESSOV3	SN: 3205	30-Dec-13 (No. ES3-3206_Dec13)	Dec-14
DAE4	SN: 601	18-Aug-14 (No. DAE4-601_Aug14)	Aug 15
Securitary Standards	10.4	Check Date (in house)	Schedoled Check
RF generator RAS SMT-06	100005	04-Aug-99 (in house check Oct-13)	in house creck: Oct-18
Nelwork Analyzer HP 8753E	US37390585 84206	18-Oct-01 (in thouse efficit Oct-13)	In house check: Oct-14
	Name	Function	Signiflure
Calibrated by:	Michael Water	Laboratory Technician	M. Webs

Certificate No: D1750V2-1008_Aug14

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Issuert: August 28: 2014



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Calibration Laboratory of

Schmid & Parmer
Engineering AG
Zeochassetween 45, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdinns C Service suisse d'étalonnage

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Accorditation No.: SCS 108

Apprenage by the Swins Apprehimition Steven (BAS)

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Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL ConvF N/A tissue simulating liquid

sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Flate (SAR) in the Human Head from Wireless Communications Devices; Measurement Techniques", June 2013
- b) IEC 82209-1, "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 865864, "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 entenna 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%.

Comfcate No: 01760/2-1008_Aug14

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Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52.6,8
Extrapolation	Advanced Extrapolation	
Phentom	Modular Flat Phantom	
Distance Dipole Center - TSL) D mm	with Space
Zoom Scan Resolution	dx. dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	55.0 °C	40.1	1.37 m/m/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	392=5%	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 cm² (10 g) of Head TSL	roctionop	
SAR measured	250 mW input power	4,91 W/kg
SAR for nominal Head TSL parameters	normalized to fW	19.6 W/kg = 16.5 % (k=2)

Body TSL parameters

	Tamperature	Permittivity	Conductivity
Nominal Body TSL parameters	22,0 °C	E3,4	1.49 mbolm
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.0±8%	1.49 mbo/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAS measured	250 mW input power	9.44 W/kg
SAR for nominal Body TSL parameters	nomisized to 1W	37.5 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ² (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/kp ± 16.5 % (k=2)

Certificate No: D1750V2-1068_Aug1/I

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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	$46.4 \Omega + 0.3 j\Omega$	
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

Certificate No: D1750V2-1008_Aug14

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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; $\sigma = 1.37$ S/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConyF(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

Certificate No: D1750V2-1008_Aug14

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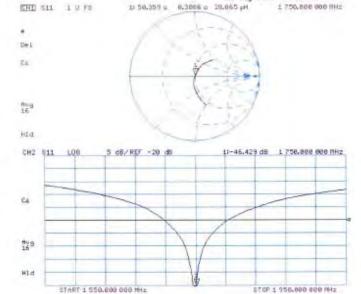
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Impedance Measurement Plot for Head TSL



28 Mug 2014 14:81:31

Certificate No: D1750V2-1008_Aug14



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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; $\sigma = 1.49 \text{ S/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

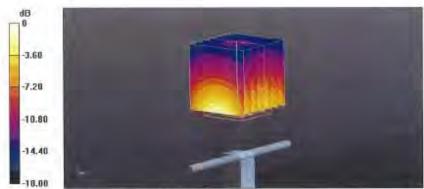
DASY52 Configuration:

- 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/kgMaximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg

Certificate No: D1750V2-1008_Aug14



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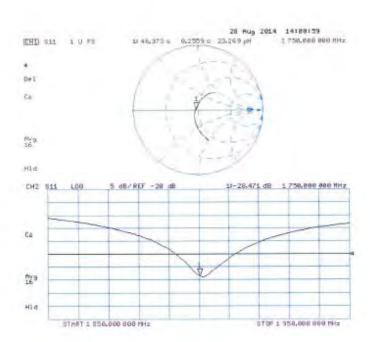
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Impedance Measurement Plot for Body TSL





Certificate No: D1750V2-1008_Aug14

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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108 Accredited by the Swiss Accreditation Service (SAS)

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SGS-TW (Auden)

Certificate No: D1900V2-5d027_Apr15

CALIBRATION CERTIFICATE

Object D1900V2 - SN:5d027

QA CAL-05.v9 Calibration procedure(s)

Calibration procedure for dipole validation kits above 700 MHz

Calibration date: April 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)	01-Apr-15 (No. 217-02131)	Mar-16
Type-N mismatch combination	SN: 5047.2 / 06327	01-Apr-15 (No. 217-02134)	Mar-16
Reference Probe ES3DV3	SN: 3205	30-Dec-14 (No. ES3-3205_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

Eunction Calibrated by: Claudio Leubler Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: April 29, 2015

Certificate No: D1900V2-5d027_Apr15

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

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

Glossary:

TSL tissue simulating liquid sensitivity in TSL / NORM x,y,z ConvF not applicable or not measured N/A

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
- 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
- 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%.

Certificate No: D1900V2-5d027 Apr15

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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	38.6 ± 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	10.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	40.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.3 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	52.8 ± 6 %	1.50 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	9.78 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.20 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.9 W/kg ± 16.5 % (k=2)

Certificate No: D1900V2-5d027_Apr15

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.2 Ω + 2.5 jΩ
Return Loss	- 32.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.5 Ω + 2.5 jΩ
Return Loss	- 27.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.197 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	December 17, 2002

Certificate No: D1900V2-5d027_Apr15

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DASY5 Validation Report for Head TSL

Date: 29.04.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.37 \text{ S/m}$; $\varepsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(5, 5, 5); Calibrated: 30.12.2014;

· Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 18.08.2014

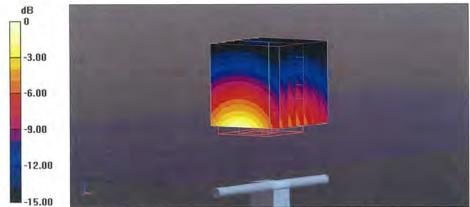
Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

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 = 97.71 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.3 W/kgMaximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg

Certificate No: D1900V2-5d027_Apr15

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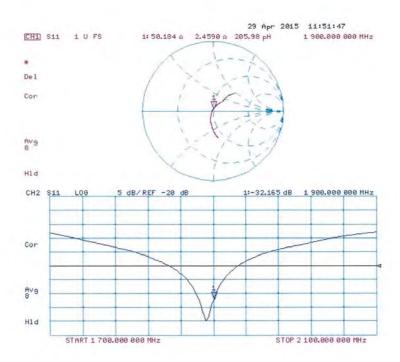
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Impedance Measurement Plot for Head TSL





Certificate No: D1900V2-5d027_Apr15

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DASY5 Validation Report for Body TSL

Date: 29.04.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d027

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.5 \text{ S/m}$; $\varepsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(4.65, 4.65, 4.65); Calibrated: 30.12.2014;

· Sensor-Surface: 3mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn601; Calibrated: 18.08.2014

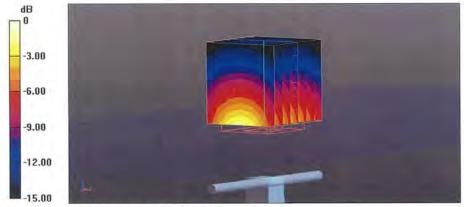
Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002

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 = 94.63 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 16.7 W/kg SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.2 W/kg

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



0 dB = 12.4 W/kg = 10.93 dBW/kg

Certificate No: D1900V2-5d027_Apr15

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Impedance Measurement Plot for Body TSL

29 Apr 2015 11:50:54 CHI S11 1: 46.518 Ω 210.40 pH 1 900,000 000 MHz De 1 Avg Hld 5 dB/REF -20 dB 1:-27.044 dB 1 900.000 000 MHz Av9 H1d START 1 700.000 000 MHz STOP 2 100,000 000 MHz

Certificate No: D1900V2-5d027_Apr15

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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: SCS 0108

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client SGS-TW (Auden)

Certificate No: D2450V2-727_Apr15

CALIBRATION CERTIFICATE

D2450V2 - SN: 727

Calibration procedure(s) QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

Calibration date: April 22, 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)	01-Apr-15 (No. 217-02131)	Mar-16
Type-N mismatch combination	SN: 5047.2 / 06327	01-Apr-15 (No. 217-02134)	Mar-16
Reference Probe ES3DV3	SN: 3205	30-Dec-14 (No. ES3-3205_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.Webes
Approved by:	Katja Pokovic	Technical Manager	Det-
			Issued: April 23, 2015

Certificate No: D2450V2-727_Apr15

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Calibration Laboratory of Schmid & Partner

Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service sulsse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

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

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
- EC 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%.

Certificate No: D2450V2-727_Apr15

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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	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	37.6 ± 6 %	1.82 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	13.2 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	6.10 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 %	2.02 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	13.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	51.0 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.10 W/kg
SAB for nominal Body TSL parameters	normalized to 1W	24.0 W/kg ± 16.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	56.2 Ω + 1.3 jΩ
Return Loss	- 24.6 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	51.8 Ω + 3.3 jΩ
Return Loss	- 28.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.149 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

Certificate No: D2450V2-727_Apr15

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DASY5 Validation Report for Head TSL

Date: 22.04.2015

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; $\sigma = 1.82$ S/m; $\epsilon_r = 37.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(4.54, 4.54, 4.54); Calibrated: 30.12.2014;

· 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)

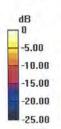
Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 101.5 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.1 W/kg

Maximum value of SAR (measured) = 17.5 W/kg





0 dB = 17.5 W/kg = 12.43 dBW/kg

Certificate No: D2450V2-727_Apr15

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Impedance Measurement Plot for Head TSL

22 Apr 2015 13:45:33 2 450.000 000 MHz CH1 S11 1 U FS Hld 2 450.000 000 MHz CH2 5 dB/REF -20 dE 1:-24,555 dB De 1 Cor Av9 START 2 250,000 000 MHz STOP 2 650.000 000 MHz

Certificate No: D2450V2-727_Apr15

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DASY5 Validation Report for Body TSL

Date: 22.04.2015

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; $\sigma = 2.02 \text{ S/m}$; $\varepsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(4.32, 4.32, 4.32); Calibrated: 30.12.2014;

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 = 95.54 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 27.2 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.1 W/kg

Maximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg

Certificate No: D2450V2-727_Apr15

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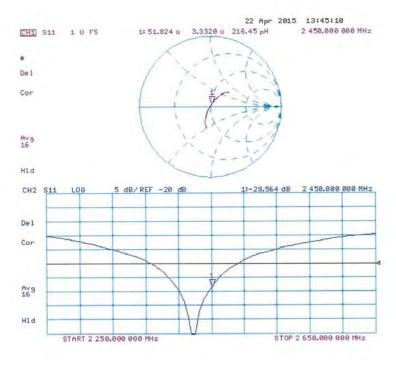
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Impedance Measurement Plot for Body TSL



Certificate No: D2450V2-727_Apr15

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Calibration Laboratory of Schmid & Partner Engineering AG sstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kallbrierdianst Service suisse d'étalonnage Servizio svizzero di tarature Swiss Calibration Service

Accidented by the Swiss Accreditation Service (SAS) Appreditation No.: SCS 0108 The Swiss Accreditation Service is one of the signatories to the EA

SGS-TW (Auden)

Certificate No: D5GHzV2-1023_Jan15

CALIBRATION CERTIFICATE

Multitateral Agreement for the recognition of calibration certificates

Direct

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 collibration certificate documents the traceability to retional 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

dibrations have been conducted in the classed laboratory facility environment temperature (22 ± 3)°G and (winking a 70%)

Calibration Equipment used (MATE critical for calibration)

RF generator R&S SMT-06 Network Analyzar HP 6753E	US37390585 S4206	94-Aug-99 (in house check Out-13) 19-Out-01 (In house check Out-14)	In house check: Oct-15 In house check: Oct-15
Secondary Standards	ID a	Check Liste (in house)	Scheduled Check
DAE4	SN: 601	18-Aug-14 (No. DAE4-601_Aug14)	Aug-15
Reference Probe EX3DV4	SN: 3503	30-Dec-14 (No. EX3-3503_Dec14)	Dec-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference 20 dB Attunuator	BN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Power sensor HP 8481A	MY41092317	07-Oct-14 (No. 217-02021)	Dot-15
Power sensor HP 8481A	US37292783	07-Oct-14 (No. 217-02020)	Da-15
LOWEL LIBREL FLW-HIST	CIBS/48U/04	UY-ORI-14 (No. 217-02020)	Oct-15

Function Laboratory Technician

Technical Manages

Issued Jercury 29, 2015

This calibration certificate shall not be regradueled except in full without written approved of the laberatory

Certificate No: D5GHzV2-1023 Jan 15

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstresse 43, 8004 Zurich, Switzerland





SERWINGERINGHIP KARDINEDI Service surse of statemage C Servizio evizzero di teretor Swiss Calibration Service

Accomplisation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Mullitateral Agreement for the recognition of calibration certificates

Glossary:

tissue simulating liquid TSL sensitivity in TSL / NORM x,y,z ConvE not applicable or not measured N/A

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"
- 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 phantam. 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%

Certificate No. 05G) tay2-1023_1m15

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Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASYS	V52.6.8
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 5600 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	4.56 mhorm
Measured Head TSL parameters	[22,0±02] °C	36.3±0 %	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 cm² (1 g) of Hend 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 ² (10 g) of Head TSL	condition	
SAR measured	100 mW Input power	2:32 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.2 W/kg = 19.5 % (k=2)

Certilizate No. 05GHzV2-1023 Jan 15

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Head TSL parameters at 5300 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35,9	4.78 mham
Measured Head TSL parameters	(22.0 ± 0.2) °C	361 + 6 %	4.66 mhs/m = 6.%
Head TSL temperature change during test	<0.5 °C	_	-

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm² (1 g) of Head TSL.	Condition	
BAR measured	100 mW inpul 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
SAH for nominal Head TSL parameters	nomalized to 1W	23.4 W/kg ± 19.5 % (l/m2)

Head TSL parameters at 5600 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	S5'0, C	35.5	5.07 mha/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	-	100

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.14 W/kg
SAR for nominal Hoad TSL parameters	WI al besilamon	81.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (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)

Certificate No: D5GHzV2-1023 Jan 15

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Head TSL parameters at 5800 MHz

The following parameters and calculators were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22,0 °C	35.3	5.27 mholm
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 = 6.16	5.18 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	Gondillon	
SAR measured	100 mW input power	7.82 W/kg
SAR for nominal Head TSL parameters	Wt at besternor	78.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm2 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Flead TSL parameters	normalized to 1W	22.3 W/kg ± 19.5 % (k=2)

Certificate No. DSGHzV2-1023_Jan 15

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Body TSL parameters at 5200 MHz

	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 ± 6.55	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 cm2 (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

	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	492=619	5.55 mho/m = 8.%
Body TSL temperature change during lest	< 0.5 °C	_	Sec.

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm2 (1 g) of Body TSL	Condition	
SAR massured	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 cm² (10 g) of Body TSL	gondition	
SAR measured	100 mW input power	2.07 W/kg
SAR for nominal Flody TSL parameters	normalized to 1W	20.8 W/kg = 19.5 % (N=2)

Certificate No: D5GHzV2-1023 Jan 15

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Body TSL parameters at 5600 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	.82,0 °C	48.5	5.77 mholm
Mnasured Body TSL parameters	(22.0 ± 0.2) °C	48.7 ± 6 %.	5.96 mho/m ± 6 %
Body TSL temperature change during test	≤05°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 (ripul 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 ² (16 g) of Body TSL	condition	
SAR measured	100 mW input power	2.15 W/kg
SAFI 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 mno/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.4 ± 6.5 ₆	6.25 mhg/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
SAFI for nominal Body TSL parameters	normalized to tW	75,5 W/kg ± 19,9 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	gondition	
SAR measured	100 mW input power	2.07 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	30.7 W/kg = 19.5 % (k=2)

Certificate No: D5GHzV2-1828_Jan 15

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Appendix (Additional assessments outside the scope of SCS0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to leed point	49.2 (2 - 8,5 (4)
Return Loss	-21.4 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to leed point	51.0 ii - 3.8 ju	
Return Loss	- 2E Z aB	

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to lead point	53.4 (1 + 2.7)(1	
Fletury Loss	- 27.5 dB	

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	55.5 D + 1.0 J()
Return Loss	- 25.4 dB

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	49.0 Q - 7.1 pl
Relam Loss	- 22.8 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	51.5 D - 2.2 JU
Relum Loss	-31,7 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	54.6 Ω - 1.5 μT
Return Loss	-26.8 dB

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Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	55.8-C + 2.8 jQ	
Retirm Loss	24.5 (6)	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.199 ns

After lang 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 semiripid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The amenina is therefore short-capalised 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 carriaged.

Additional EUT Data

Manufactined 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; $\sigma = 4.56 \text{ S/m}$; $\epsilon_r = 36.3$; $\rho = 1000 \text{ kg/m}^3$. Medium parameters used: f = 5300 MHz; $\sigma = 4.66$ S/m; $\epsilon_t = 36.1$; $\rho = 1000$ kg/m 2 , Medium parameters used: f = 5600 MHz; $\sigma = 1000$ kg/m 2 , Medium parameters used: f = 5600 MHz; $\sigma = 1000$ kg/m 2 , Medium parameters used: $\sigma = 1000$ kg/m 2 , $\sigma = 1000$ kg/m 2 kg/m 2 , $\sigma = 10000$ kg/m 2 kg/m 2 11.97 S/m; $\epsilon_p = 35.7$; $\rho = 1000 \text{ kg/m}^2$. Medium parameters used: l = 5800 MHz; n = 5.18 S/m; $\epsilon_r = 35.4$; $\rho = 1000 \text{ kg/m}^2$.

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);
- 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 Sean,

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 gral. 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 5AR (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

Cintillosta No: D5GHzV2-1023_Jan 15

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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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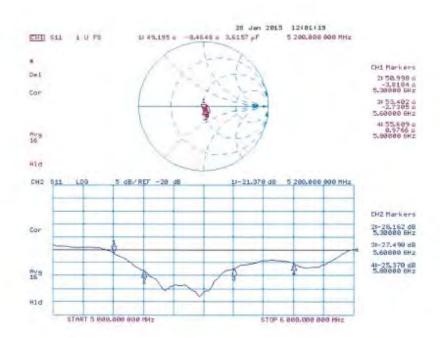
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Impedance Measurement Plot for Head TSL





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DASY5 Validation Report for Body TSL

Date: 29,01.2015

Test Laboratory SPEAG, Zurich, Switzerland

DUT: Dipôle 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Modium parameters used: t = 5200 MHz; $\sigma = 5.42 \text{ S/m}$; $v_r = 49.4$; $\rho = 1000 \text{ kg/m}^3$. Medium parameters used: t = 5300 MHz; $\sigma = 5.55 \text{ S/m}$; $v_r = 49.2$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: t = 5600 MHz; $\sigma = 5.96 \text{ S/m}$; $v_r = 48.7$; $\rho = 1000 \text{ kg/m}^3$. Medium parameters used: t = 5800 MHz: $\sigma = 6.25 \text{ S/m}$; $v_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$.

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY 52 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(4.32, 4.35); Calibrated: 30.12.2014, ConvF(4.32, 4.32); Calibrated: 30.12.2014,
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601, Calibrated, 18:08:2014
- Planton: 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 (B)

Peak SAR (extrapolated) = 30.0 W/kg

SAR(I 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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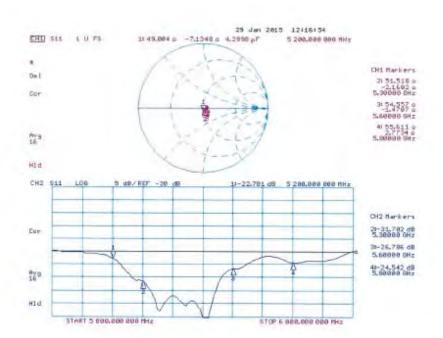
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Impedance Measurement Plot for Body TSL





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- End of 1st part of report -

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