

Page: 1 of 328

SAR TEST REPORT





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

Notebook Computer **Equipment Under Test**

Brand Name acer N17Q10 Model No. SF714-51T Marketing Name.

Acer Incorporated **Company Name**

8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City **Company Address**

22181, Taiwan (R.O.C)

IEEE/ANSI C95.1-1992, IEEE 1528-2013, **Standards**

KDB616217D04v01r02,KDB865664D01v01r04. KDB865664D02v01r02,KDB941225D01v03r01, KDB941225D05v02r05,KDB941225D05Av01r02,

KDB447498D01v06, KDB248227D01v02r02

FCC ID HLZ7265D2 **Date of Receipt** Jan. 02, 2018

Date of Test(s) Jan. 05, 2018 ~ Jan. 19, 2018

Date of Issue Mar. 08, 2018

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Ruby Ou	Engineer / Bond Tsai	Asst. Manager / John Yeh
Ruby Ou	BondIsai	John Teh

Date: Mar. 08, 2018

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Page: 2 of 328

Revision History

Report Number	Revision	Description	Issue Date
E5/2018/10002	Rev.00	Initial creation of document	Feb. 09, 2018
E5/2018/10002	Rev.01	1 st modification	Mar. 08, 2018

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Page: 3 of 328

Contents

1. General Information	4
1.1 Testing Laboratory	
1.2 Details of Applicant	
1.3 Description of EUT	5
1.4 Test Environment	139
1.5 Operation Description	139
1.6 Proximity sensor operation description	150
1.7 The SAR Measurement System	160
1.8 System Components	
1.9 SAR System Verification	164
1.10 Tissue Simulant Fluid for the Frequency Band	166
1.11 Evaluation Procedures	169
1.12 Probe Calibration Procedures	170
1.13 Test Standards and Limits	173
2. Summary of Results	175
3. Simultaneous Transmission Analysis	190
3.1 Estimated SAR calculation	191
4. Instruments List	202
5. Measurements	204
6. SAR System Performance Verification	229
7. DAE & Probe Calibration Certificate	
8. Uncertainty Budget	
9 System Validation from Original Equipment Supplier	258

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Page: 4 of 328

1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory				
No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan				
Tel +886-2-2299-3279				
Fax +886-2-2298-0488				
Internet	http://www.tw.sgs.com/			

1.2 Details of Applicant

Company Name	Acer Incorporated
IL AMINANY AMARASS	8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)

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Page: 5 of 328

1.3 Description of EUT

-	T							
Equipment Under Test	Notebook Computer							
Brand Name	acer							
Model No.	N17Q10							
Marketing Name	SF714-51T							
FCC ID	HLZ7265D2							
Integrated Medula	Wireless LAN+BT		lame : In lame : 72		W			
Integrated Module	GNSS (LTE+GPS) Brand Name : Fibocom Model Name : L850-GL							
Mode of Operation								
	WCDMA	1						
	LTE FDD	1						
Duty Cycle	LTE TDD	0.633						
	WLAN802.11 a/b/g/n(20M/40M ac(20M/40M/80M)		1					
	Bluetooth		1					
	WCDMA Band II		1850	_	1910			
	WCDMA Band IV		1710	_	1755			
	WCDMA Band V		824	_	849			
TX Frequency Range	LTE FDD Band 2		1850	_	1910			
(MHz)	LTE FDD Band 4	1710	_	1755				
	LTE FDD Band 5		824	_	849			
	LTE FDD Band 7		2500	_	2570			
	LTE FDD Band 12		699	_	716			

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Page: 6 of 328

	LTE FDD Band 13	777	_	787
	LTE FDD Band 17	704	_	716
	LTE FDD Band 26	814	_	849
	LTE FDD Band 30	2305	_	2315
	LTE FDD Band 38	2570	_	2620
	LTE TDD Band 41	2496	_	2690
	LTE FDD Band 66	1710	_	1780
	WLAN802.11 b/g/n(20M)	2412	_	2472
	WLAN802.11 n(40M)	2422	_	2462
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	_	5240
TX Frequency Range	WLAN802.11 n(40M)/ac(40M) 5.2G	5190	_	5230
(MHz)	WLAN802.11 ac(80M) 5.2G		5210	
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260	_	5320
	WLAN802.11 n(40M)/ac(40M) 5.3G	5270	_	5310
	WLAN802.11 ac(80M) 5.3G		5290	
	WLAN802.11 a/n/ac(20M) 5.6G	5500	_	5720
	WLAN802.11 n/ac(40M) 5.6G	5510	_	5710
	WLAN802.11 ac(80M) 5.6G	5530	_	5690
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	5745	_	5825
	WLAN802.11 n(40M)/ac(40M) 5.8G	5710	_	5795
	WLAN802.11 ac(80M) 5.8G		5775	
	Bluetooth	2402	_	2480
	WCDMA Band II	9262	_	9538
	WCDMA Band IV	1312	_	1513
Channel Number	WCDMA Band V	4132	_	4233
(ARFCN)	LTE FDD Band 2	18607		19193
	LTE FDD Band 4	19957		20393
	LTE FDD Band 5	20407	_	20643

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Page: 7 of 328

	LTE FDD Band 7	20775	_	21425
	LTE FDD Band 12	23017	_	23173
	LTE FDD Band 13	23205	_	23255
	LTE FDD Band 17	23755	_	23825
	LTE FDD Band 26	26697	_	27033
	LTE FDD Band 30	27685	_	27735
	LTE FDD Band 38	37775	_	38225
	LTE TDD Band 41	39675	_	41565
	LTE FDD Band 66	131979	_	132665
	WLAN802.11 b/g/n(20M)	1	_	13
	WLAN802.11 n(40M)	3	_	11
Channel Number	WLAN802.11 a/n(20M)/ac(20M) 5.2G	36	_	48
(ARFCN)	WLAN802.11 n(40M)/ac(40M) 5.2G	38	_	46
	WLAN802.11 ac(80M) 5.2G		42	
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	52	_	64
	WLAN802.11 n(40M)/ac(40M) 5.3G	54	_	62
	WLAN802.11 ac(80M) 5.3G		58	
	WLAN802.11 a/n/ac(20M) 5.6G	100	_	144
	WLAN802.11 n/ac(40M) 5.6G	102	_	142
	WLAN802.11 ac(80M) 5.6G	106	_	138
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	149	_	165
	WLAN802.11 n(40M)/ac(40M) 5.8G	142	_	159
	WLAN802.11 ac(80M) 5.8G		155	
	Bluetooth	0	_	78

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Page: 8 of 328

	Max. SAR (1 g)	(Unit: W/Kg)		
Band	Measured	Reported	Channel	Position
WCDMA Band II	1.19	1.19	9262	Bottom side
WCDMA Band IV	1.04	1.04	1513	Bottom side
WCDMA Band V	1.05	1.05	4132	Bottom side
LTE FDD Band 2	1.01	1.15	19100	Bottom side
LTE FDD Band 5	1.01	1.02	20450	Bottom side
LTE FDD Band 7	1.16	1.16	21100	Bottom side
LTE FDD Band 12	0.86	0.91	23130	Bottom side
LTE FDD Band 13	0.81	0.92	23230	Bottom side
LTE FDD Band 17	0.83	0.86	23780	Bottom side
LTE FDD Band 26	0.98	1.02	26865	Bottom side
LTE FDD Band 30	1.16	1.17	27710	Bottom side
LTE FDD Band 38	1.19	1.24	37850	Bottom side
LTE TDD Band 41	1.12	1.13	41055	Bottom side
LTE TDD Band 66	1.16	1.17	132572	Bottom side

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Page: 9 of 328

	Max. SAR (1 g) (Unit: W/Kg)									
Antenna	Band	Measured	Reported	Channel	Position					
	WLAN802.11 b	0.02	0.02	6	Bottom side					
	WLAN802.11 n(40M) 5.2G	0.03	0.03	46	Bottom side					
Main	WLAN802.11 n(40M) 5.3G	0.03	0.03	54	Bottom side					
	WLAN802.11 ac(80M) 5.6G	0.07	0.07	138	Bottom side					
	WLAN802.11 ac(80M) 5.8G	0.05	0.05	155	Bottom side					
	WLAN802.11 b	0.01	0.01	6	Bottom side					
	Bluetooth (GFSK)	0.00	0.00	0	Bottom side					
	WLAN802.11 n(40M) 5.2G	0.02	0.02	46	Bottom side					
Aux	WLAN802.11 n(40M) 5.3G	0.02	0.02	54	Bottom side					
	WLAN802.11 ac(80M) 5.6G	0.04	0.04	138	Bottom side					
	WLAN802.11 ac(80M) 5.8G	0.02	0.02	155	Bottom side					

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Page: 10 of 328

WWAN antenna information:

WWW. Carterina information:									
Vendor		WNC							
Antenna		Main (PIFA)							
Part Number		81EAAL15.GJT							
Frequency	1907.6	907.6 1752.6 846.6 1900 1745 844 2560 711						711	
Gain (dBi)	-1.86	-1.19	-1.97	-2.27	-1.19	-1.97	-3.11	-2.36	

Vendor	WNC							
Antenna		Main (PIFA)						
Part Number		81EAAL15.GJT						
Frequency	782	782 711 841.5 2310 2610 2680 1770						
Gain (dBi)	-1.52	-2.36	-1.70	-3.40	-3.29	-2.92	-1.19	

WLAN / Bluetooth antenna information:

Vendor		W	NC			WNC			
Antenna		Main (PIFA)				Aux (PIFA)			
Part Number		81EAAL15.GJ5				81EAAL15.GJ5			
Frequency	2.4G	2.4G 5.2G 5.5G 5.8G			2.4G	5.2G	5.5G	5.8G	
Gain (dBi)	2.13	0.20	1.92	1.35	2.16	1.15	1.07	1.02	

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Page: 11 of 328

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

Unit: dRm

Jiit. ubiii									
	Band								
	TX Channel								
Fre	Frequency (MHz)								
Max. Rated Avg. I	Power+Max. Tolerance (dBm)		24.00						
3GPP Rel 99	RMC 12.2Kbps	23.93	23.88	23.61					
	HSDPA Subtest-1	23.80	23.78	23.54					
3GPP Rel 5	HSDPA Subtest-2	23.78	23.75	23.47					
SGFF Nei S	HSDPA Subtest-3	23.80	23.75	23.40					
	HSDPA Subtest-4	23.76	23.72	23.41					
	HSUPA Subtest-1	22.69	22.64	22.29					
	HSUPA Subtest-2	20.51	20.47	20.15					
3GPP Rel 6	HSUPA Subtest-3	21.15	21.21	20.89					
	HSUPA Subtest-4	20.78	20.72	20.45					
	HSUPA Subtest-5	22.70	22.70	22.40					

	Band	٧	VCDMA I	V
	1312	1412	1513	
Fre	1712.4	1732.4	1752.6	
Max. Rated Avg. I		24.00		
3GPP Rel 99	RMC 12.2Kbps	23.77	23.97	23.99
	HSDPA Subtest-1	23.60	23.77	23.84
3GPP Rel 5	HSDPA Subtest-2	23.59	23.78	23.85
SGFF Nei S	HSDPA Subtest-3	23.60	23.78	23.82
	HSDPA Subtest-4	23.59	23.78	23.83
	HSUPA Subtest-1	22.52	22.73	22.80
	HSUPA Subtest-2	20.30	20.51	20.60
3GPP Rel 6	HSUPA Subtest-3	21.10	21.25	21.28
	HSUPA Subtest-4	20.61	20.78	20.94
	HSUPA Subtest-5	22.60	22.80	22.84

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Page: 12 of 328

	Band	1	WCDMA \	/	
	TX Channel				
Fre	Frequency (MHz)				
Max. Rated Avg. I	Power+Max. Tolerance (dBm)		24.00		
3GPP Rel 99	RMC 12.2Kbps	23.55	23.39	23.33	
	HSDPA Subtest-1	23.39	23.15	23.23	
3GPP Rel 5	HSDPA Subtest-2	23.39	23.17	23.14	
JOFF Ner J	HSDPA Subtest-3	23.38	23.20	23.17	
	HSDPA Subtest-4	23.41	23.22	23.20	
	HSUPA Subtest-1	22.54	22.74	22.27	
	HSUPA Subtest-2	20.31	20.56	20.11	
3GPP Rel 6	HSUPA Subtest-3	21.04	21.35	20.75	
	HSUPA Subtest-4	20.55	20.84	20.42	
	HSUPA Subtest-5	22.50	22.80	22.40	

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Page: 13 of 328

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

Unit: dBm

	Band		WCDMA I					
	TX Channel							
Fre	1852.4	1880	1907.6					
Max. Rated Avg.	Max. Rated Avg. Power+Max. Tolerance (dBm)							
3GPP Rel 99	RMC 12.2Kbps	16.49	16.32	16.26				
	HSDPA Subtest-1	16.46	16.30	16.15				
3GPP Rel 5	HSDPA Subtest-2	16.48	16.31	16.11				
SGPP Nei 5	HSDPA Subtest-3	16.47	16.30	16.10				
	HSDPA Subtest-4	16.44	16.29	16.07				
	HSUPA Subtest-1	16.43	16.18	16.00				
	HSUPA Subtest-2	16.36	16.19	15.98				
3GPP Rel 6	HSUPA Subtest-3	16.39	16.21	16.01				
	HSUPA Subtest-4	16.42	16.22	15.97				
	HSUPA Subtest-5	16.41	16.20	15.99				

	Band	\	NCDMA I	/		
	1312	1412	1513			
Fre	1712.4	1732.4	1752.6			
Max. Rated Avg. I	Power+Max. Tolerance (dBm)		16.50			
3GPP Rel 99	RMC 12.2Kbps	16.30	16.38	16.49		
	HSDPA Subtest-1	16.23	16.36	16.47		
3GPP Rel 5	HSDPA Subtest-2	16.24	16.35	16.42		
Jan Hers	HSDPA Subtest-3	16.22	16.35	16.43		
	HSDPA Subtest-4	16.23	16.36	16.41		
	HSUPA Subtest-1	16.22	16.35	16.48		
	HSUPA Subtest-2	16.21	16.35	16.44		
3GPP Rel 6	HSUPA Subtest-3	16.20	16.34	16.47		
	HSUPA Subtest-4	16.24	16.36	16.46		
	HSUPA Subtest-5	16.21	16.36	16.44		

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Page: 14 of 328

	Band	,	WCDMA \				
	4132	4183	4233				
Fre	826.4	836.6	846.6				
Max. Rated Avg. I	Power+Max. Tolerance (dBm)		21.50				
3GPP Rel 99	RMC 12.2Kbps	21.49	21.25	21.43			
	HSDPA Subtest-1	21.44	21.13	21.39			
3GPP Rel 5	HSDPA Subtest-2	21.45	21.16	21.38			
SGFF Nei S	HSDPA Subtest-3	21.47	21.19	21.36			
	HSDPA Subtest-4	21.48	21.18	21.35			
	HSUPA Subtest-1	21.47	21.17	21.41			
	HSUPA Subtest-2	21.46	21.15	21.39			
3GPP Rel 6	HSUPA Subtest-3	21.46	21.19	21.38			
	HSUPA Subtest-4	21.45	21.18	21.36			
	HSUPA Subtest-5	21.48	21.20	21.37			

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Page: 15 of 328

LTE FDD Band 2 / Band 4 / Band 5 / Band7 / Band 12 / Band 13 / Band 17 / Band 26 /Band 30 / Band 38 / Band 41 / Band 66 nower table(Full nower):

				FDD Band 2		ole(Full p	- 1-	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1860	18700	23.66	24	0
			0	1880	18900	23.37	24	0
				1900	19100	23.37	24	0
				1860	18700	23.27	24	0
		1 RB	50	1880	18900	23.50	24	0
				1900	19100	23.26	24	0
				1860	18700	23.31	24	0
			99	1880	18900	23.26	24	0
				1900	19100	23.16	24	0
			0	1860	18700	22.39	23	0-1
	QPSK			1880	18900	22.35	23	0-1
				1900	19100	21.95	23	0-1
		50 RB	25	1860	18700	22.42	23	0-1
				1880	18900	22.29	23	0-1
				1900	19100	22.00	23	0-1
				1860	18700	22.37	23	0-1
			50	1880	18900	22.22	23	0-1
				1900	19100	22.09	23	0-1
				1860	18700	22.50	23	0-1
		100RB		1880	18900	22.47	23	0-1
20				1900	19100	22.18	23	0-1
20			0	1860	18700	22.94	23	0-1
				1880	18900	22.92	23	0-1
				1900	19100	22.46	23	0-1
				1860	18700	22.96	23	0-1
		1 RB	50	1880	18900	22.71	23	0-1
				1900	19100	22.38	23	0-1
				1860	18700	22.72	23	0-1
			99	1880	18900	22.44	23	0-1
			00RB 0 50	1900	19100	22.52	23	0-1
				1860	18700	21.43	22	0-2
	16-QAM		0	1880	18900	21.37	22	0-2
				1900	19100	21.05	22	0-2
				1860	18700	21.32	22	0-2
		50 RB	25	1880	18900	21.47	22	0-2
				1900	19100	20.97	22	0-2
				1860	18700	21.43	22	0-2
			50	1880	18900	21.39	22	0-2
				1900	19100	21.12	22	0-2
				1860	18700	21.49	22	0-2
		100)RB	1880	18900	21.60	22	0-2
1					19100	21.13	22	0-2

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Page: 16 of 328

				FDD Band 2				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1857.5	18675	23.31	24	0
			0	1880	18900	23.22	24	0
				1902.5	19125	22.88	24	0
				1857.5	18675	23.05	24	0
		1 RB	36	1880	18900	23.20	24	0
				1902.5	19125	22.95	24	0
				1857.5	18675	23.08	24	0
			74	1880	18900	23.07	24	0
				1902.5	19125	22.88	24	0
			0	1857.5	18675	22.21	23	0-1
	QPSK			1880	18900	22.23	23	0-1
				1902.5	19125	21.89	23	0-1
			18	1857.5	18675	22.16	23	0-1
		36 RB		1880	18900	22.25	23	0-1
				1902.5	19125	21.91	23	0-1
				1857.5	18675	22.15	23	0-1
			37	1880	18900	22.12	23	0-1
				1902.5	19125	21.99	23	0-1
			•	1857.5	18675	22.20	23	0-1
		75	RB	1880	18900	22.23	23	0-1
15					19125	22.00	23	0-1
15			0	1857.5	18675	22.64	23	0-1
				1880	18900	22.07	23	0-1
				1902.5	19125	22.27	23	0-1
				1857.5	18675	22.75	23	0-1
		1 RB	36	1880	18900	22.73	23	0-1
				1902.5	19125	22.62	23	0-1
				1857.5	18675	22.41	23	0-1
			74	1880	18900	22.67	23	0-1
				1902.5	19125	22.36	23	0-1
				1857.5	18675	21.26	22	0-2
	16-QAM		0	1880	18900	21.34	22	0-2
				1902.5	19125	20.78	22	0-2
				1857.5	18675	21.17	22	0-2
		36 RB	18	1880	18900	21.26	22	0-2
				1902.5	19125	20.87	22	0-2
				1857.5	18675	21.22	22	0-2
			37	1880	18900	21.27	22	0-2
				1902.5	19125	20.88	22	0-2
				1857.5	18675	21.18	22	0-2
		75	RB	1880	18900	21.34	22	0-2
				1902.5	19125	20.95	22	0-2

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Page: 17 of 328

				FDD Band 2				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1855	18650	23.42	24	0
			0	1880	18900	23.38	24	0
				1905	19150	22.96	24	0
				1855	18650	22.94	24	0
		1 RB	25	1880	18900	23.06	24	0
				1905	19150	22.93	24	0
				1855	18650	23.18	24	0
			49	1880	18900	23.23	24	0
				1905	19150	23.09	24	0
			0	1855	18650	22.24	23	0-1
	QPSK			1880	18900	22.32	23	0-1
				1905	19150	21.86	23	0-1
			12	1855	18650	22.21	23	0-1
		25 RB		1880	18900	22.28	23	0-1
				1905	19150	21.95	23	0-1
				1855	18650	22.17	23	0-1
			25	1880	18900	22.19	23	0-1
				1905	19150	22.06	23	0-1
				1855	18650	22.19	23	0-1
		50	RB	1880	18900	22.19	23	0-1
10				1905	19150	21.91	23	0-1
10			0	1855	18650	22.81	23	0-1
				1880	18900	22.36	23	0-1
				1905	19150	22.31	23	0-1
				1855	18650	22.94	23	0-1
		1 RB	25	1880	18900	22.22	23	0-1
				1905	19150	22.16	23	0-1
				1855	18650	22.44	23	0-1
			49	1880	18900	22.76	23	0-1
				1905	19150	22.07	23	0-1
				1855	18650	21.28	22	0-2
	16-QAM		0	1880	18900	21.41	22	0-2
				1905	19150	20.92	22	0-2
				1855	18650	21.38	22	0-2
		25 RB	12	1880	18900	21.28	22	0-2
				1905	19150	21.01	22	0-2
				1855	18650	21.19	22	0-2
			25	1880	18900	21.31	22	0-2
				1905	19150	21.10	22	0-2
				1855	18650	21.25	22	0-2
		50	RB	1880	18900	21.25	22	0-2
				1905	19150	20.97	22	0-2

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Page: 18 of 328

FDD Band 2										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1852.5	18625	23.17	24	0		
			0	1880	18900	23.22	24	0		
				1907.5	19175	22.94	24	0		
				1852.5	18625	23.10	24	0		
		1 RB	12	1880	18900	23.28	24	0		
				1907.5	19175	22.94	24	0		
				1852.5	18625	23.26	24	0		
			24	1880	18900	23.00	24	0		
				1907.5	19175	22.97	24	0		
				1852.5	18625	22.91	23	0-1		
	QPSK		0	1880	18900	22.92	23	0-1		
				1907.5	19175	22.56	23	0-1		
			6	1852.5	18625	22.89	23	0-1		
		12 RB		1880	18900	22.90	23	0-1		
				1907.5	19175	22.54	23	0-1		
				1852.5	18625	22.89	23	0-1		
			13	1880	18900	22.93	23	0-1		
				1907.5	19175	22.96	23	0-1		
			·	1852.5	18625	22.19	23	0-1		
		25	RB	1880	18900	22.19	23	0-1		
				1907.5	19175	21.94	23	0-1		
5				1852.5	18625	22.68	23	0-1		
			0	1880	18900	22.15	23	0-1		
				1907.5	19175	22.24	23	0-1		
				1852.5	18625	22.60	23	0-1		
		1 RB	12	1880	18900	22.53	23	0-1		
				1907.5	19175	22.31	23	0-1		
				1852.5	18625	22.72	23	0-1		
			24	1880	18900	22.57	23	0-1		
				1907.5	19175	22.11	23	0-1		
				1852.5	18625	21.99	22	0-2		
	16-QAM		0	1880	18900	21.96	22	0-2		
				1907.5	19175	21.57	22	0-2		
				1852.5	18625	21.97	22	0-2		
		12 RB	6	1880	18900	21.97	22	0-2		
				1907.5	19175	21.65	22	0-2		
				1852.5	18625	21.97	22	0-2		
			13	1880	18900	21.97	22	0-2		
			13	1907.5	19175	21.95	22	0-2		
				1852.5	18625	21.26	22	0-2		
		25	RB	1880	18900	21.21	22	0-2		
				1907.5	19175	20.97	22	0-2		

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Page: 19 of 328

				FDD Band 2				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1851.5	18615	23.18	24	0
			0	1880	18900	23.10	24	0
				1908.5	19185	22.94	24	0
				1851.5	18615	23.13	24	0
		1 RB	7	1880	18900	23.23	24	0
				1908.5	19185	22.89	24	0
				1851.5	18615	22.93	24	0
			14	1880	18900	23.10	24	0
				1908.5	19185	22.83	24	0
				1851.5	18615	22.18	23	0-1
	QPSK		0 1880 1908.5 1851.5 7 1880 1908.5 1851.5 14 1880 1908.5 1851.5 4 1880 1908.5 7 1880 1908.5 1851.5 7 1880 1908.5 1851.5	1880	18900	22.17	23	0-1
				1908.5	19185	21.89	23	0-1
			4	1851.5	18615	22.17	23	0-1
		8 RB		1880	18900	22.16	23	0-1
				1908.5	19185	21.81	23	0-1
				1851.5	18615	22.17	23	0-1
			7		18900	22.19	23	0-1
				1908.5	19185	21.85	23	0-1
				1851.5	18615	22.19	23	0-1
		15	RB		18900	22.15	23	0-1
3			1		19185	21.87	23	0-1
				1851.5	18615	22.34	23	0-1
			0		18900	22.79	23	0-1
					19185	22.13	23	0-1
		4 00	_		18615	22.99	23	0-1
		1 RB	/		18900	22.56	23	0-1
	[19185	22.09	23	0-1
			4.4		18615	22.47	23	0-1
	[14		18900	22.33	23	0-1
					19185	22.71	23	0-1
	16-QAM		0	1851.5	18615	21.25	22 22	0-2
	10-QAIVI			1880 1908.5	18900 19185	21.18 20.88	22	0-2 0-2
						21.19	22	0-2
	[8 RB	4	1851.5 1880	18615 18900	21.19	22	0-2
	[טחט	"	1908.5	19185	20.81	22	0-2
	[1851.5	18615	21.12	22	0-2
			7	1880	18900	21.12	22	0-2
			7	1908.5	19185	20.86	22	0-2
	[l	1851.5	18615	21.20	22	0-2
	[15	RB	1880	18900	21.19	22	0-2
			-	1908.5	19185	20.91	22	0-2

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SGS Taiwan Ltd.



Page: 20 of 328

	FDD Band 2												
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)					
				1850.7	18607	23.19	24	0					
			0	1880	18900	23.24	24						
				1909.3	19193	22.94	24						
				1850.7	18607	23.12	24						
		1 RB	2	1880	18900	23.33	24						
				1909.3	19193	22.89	24						
				1850.7	18607	23.24	24						
			5	1880	18900	23.20	24						
				1909.3	19193	22.88	24						
				1850.7	18607	22.91	23						
	QPSK		0	1880	18900	22.97	23						
				1909.3	19193	22.66	23						
				1850.7	18607	22.92	23	er + xx. Allowed per ance m) 4					
		3 RB	2	1880	18900	22.94	23						
				1909.3	19193	22.55	23						
				1850.7	18607	22.91	23						
			3	1880	18900	22.97	23						
				1909.3	19193	22.85	23						
			ı	1850.7	18607	22.20	23						
		6F	RB	1880	18900	22.23	23	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
				1909.3	19193	21.91	23	0-1					
1.4				1850.7	18607	22.39	23	0-1					
			0	1880	18900	22.53	23	0-1					
				1909.3	19193	22.08	23	0-1					
				1850.7	18607	22.31	23	0-1					
		1 RB	2	1880	18900	22.16	23	0-1					
				1909.3	19193	21.88	23	0-1					
				1850.7	18607	22.66	23	0-1					
ĺ			5	1880	18900	22.72	23	0-1					
				1909.3	19193	22.24	23	0-1					
				1850.7	18607	22.26	23	0-1					
	16-QAM		0	1880	18900	22.32	23						
				1909.3	19193	21.85	23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
				1850.7	18607	22.33	23	0-1					
		3 RB	2	1880	18900	22.38	23	0-1					
				1909.3	19193	21.94	23	0-1					
				1850.7	18607	21.99	23	0-1					
			3	1880	18900	22.39	23	0-1					
				1909.3	19193	22.04	23	0-1					
				1850.7	18607	21.23	22	0-2					
		6F	RB	1880	18900	21.21	22	0-2					
				1909.3	19193	20.85	22	0-2					

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Page: 21 of 328

				FDD Band 4						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1720	20050	23.19	24	0		
			0	1732.5	20175	23.40	24	0		
				1745	20300	23.18	24	0		
				1720	20050	23.25	24	0		
		1 RB	50	1732.5	20175	23.13	24	0		
				1745	20300	23.26	24	0		
				1720	20050	23.15	24	0		
			99	1732.5	20175	23.14	24	0		
				1745	20300	23.61	24	0		
				1720	20050	22.39	23	0-1		
	QPSK		0	1732.5	20175	22.29	23	0-1		
				1745	20300	22.20	23	0-1		
				1720	20050	22.25	23	er + Allowed per aGPP(dB) 4		
		50 RB	25	1732.5	20175	22.16	23			
				1745	20300	22.32	23			
				1720	20050	22.25	23			
			50	1732.5	20175	22.09	23	0-1		
				1745	20300	22.46	23	0-1		
				1720	20050	22.41	23	0-1		
		100)RB	1732.5	20175	22.29	23	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-		
20				1745	20300	22.53	23	0-1		
				1720	20050	22.51	23	_		
			0	1732.5	20175	22.50	23	0-1		
				1745	20300	22.40	23			
				1720	20050	22.64	23	_		
		1 RB	50	1732.5	20175	22.44	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1		
				1745	20300	22.92	23			
				1720	20050	22.63	23			
			99	1732.5	20175	22.81	23			
1				1745	20300	22.42	23			
	10.044		_	1720	20050	21.48	22			
	16-QAM		0	1732.5	20175	21.28	22			
				1745	20300	21.20	22			
		E0 DD	0.5	1720	20050	21.36	22			
		50 RB	25	1732.5	20175	21.24	22			
				1745	20300	21.37	22			
			E^	1720	20050	21.27	22			
			50	1732.5	20175	21.17	22			
				1745	20300	21.63	22			
1		400	NDD	1720 1720 F	20050	21.47	22			
	100F		סחנ	1732.5	20175	21.38	22			
				1745	20300	21.53	22	0-2		

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Page: 22 of 328

				FDD Band 4							
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1717.5	20025	23.12	24	0			
			0	1732.5	20175	23.14	24	0			
				1747.5	20325	23.21	24	0			
				1717.5	20025	23.29	24	0			
		1 RB	36	1732.5	20175	23.26	24	0			
				1747.5	20325	23.54	24	0			
				1717.5	20025	23.17	24	0			
			74	1732.5	20175	23.07	24	0			
				1747.5	20325	23.31	24	0			
				1717.5	20025	22.35	23	0-1			
	QPSK		0	1732.5	20175	22.24	23	0-1			
				1747.5	20325	22.22	23	0-1			
				1717.5	20025	22.35	23	er + Allowed per ance m) 4			
		36 RB	18	1732.5	20175	22.24	23				
				1747.5	20325	22.55	23				
				1717.5	20025	22.29	23				
			37	1732.5	20175	22.14	23				
				1747.5	20325	22.60	23	0-1			
				1717.5	20025	22.39	23	_			
		75	RB	1732.5	20175	22.27	23	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-			
15			T	1747.5	20325	22.63	23	_			
			0	1717.5	20025	22.81	23				
				1732.5	20175	22.63	23				
				1747.5	20325	22.90	23				
		4 00		1717.5	20025	22.62	23				
		1 RB	36	1732.5	20175	22.30	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-			
				1747.5	20325	22.33	23				
			7.4	1717.5	20025	22.78	23	_			
			74	1732.5	20175	22.53	23				
				1747.5	20325	22.90	23				
	16-QAM		0	1717.5	20025	21.43	22				
	10-QAIVI		l "	1732.5	20175	21.32	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-			
				1747.5	20325	21.25	22				
		36 RB	18	1717.5	20025	21.37	22				
		JU ND	10	1732.5	20175	21.29	22 22				
				1747.5 1717.5	20325	21.51 21.32	22				
			37				22				
			37	1732.5 1747.5	20175 20325	21.18 21.58	22				
				1747.5	20025	21.38	22				
		75	RB	1717.5	20025	21.32	22				
		73	5	1732.5	20175	21.61	22				

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Page: 23 of 328

				FDD Band 4						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1715	20000	23.23	24	0		
			0	1732.5	20175	23.36	24	0		
				1750	20350	23.48	24	0		
				1715	20000	23.30	24	0		
		1 RB	25	1732.5	20175	23.10	24	0		
				1750	20350	23.62	24	0		
				1715	20000	23.29	24	0		
			49	1732.5	20175	23.24	24	0		
				1750	20350	23.53	24	0		
				1715	20000	22.30	23	0-1		
	QPSK		0	1732.5	20175	22.33	23	0-1		
				1750	20350	22.51	23	0-1		
				1715	20000	22.33	23	r + MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		25 RB	12	1732.5	20175	22.23	23			
				1750	20350	22.61	23			
				1715	20000	22.36	23	0-1		
			25	1732.5	20175	22.20	23	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1		
				1750	20350	22.64	23	0-1		
				1715	20000	22.32	23	0-1		
		50	RB	1732.5	20175	22.23	23	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1		
10			T	1750	20350	22.60	23	_		
			0	1715	20000	22.27	23			
				1732.5	20175	22.82	23			
				1750	20350	22.45	23			
				1715	20000	22.82	23			
		1 RB	25	1732.5	20175	22.57	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-		
				1750	20350	22.97	23			
			40	1715	20000	22.64	23	_		
			49	1732.5	20175	22.50	23			
				1750	20350	22.77	23			
	16 0 4 14			1715	20000	21.40	22			
	16-QAM		0	1732.5	20175	21.29	22			
				1750	20350	21.50	22			
		OE DD	10	1715	20000	21.40	22			
		25 RB	12	1732.5	20175	21.30	22			
				1750	20350	21.59	22			
			25	1715	20000	21.46	22			
			20	1732.5	20175	21.21	22			
				1750 1715	20350	21.60	22			
		EV	RB	1715	20000	21.42	22			
		50	ווט	1732.5	20175	21.29	22			
			1750	20350	21.57	22	0-2			

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SGS Taiwan Ltd.



Page: 24 of 328

				FDD Band 4						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1712.5	19975	23.20	24	0		
			0	1732.5	20175	23.24	24	0		
				1752.5	20375	23.61	24	0		
				1712.5	19975	23.30	24	0		
		1 RB	12	1732.5	20175	23.21	24	0		
				1752.5	20375	23.59	24	0		
				1712.5	19975	23.37	24	0		
			24	1732.5	20175	23.22	24	0		
				1752.5	20375	23.51	24	0		
				1712.5	19975	22.50	23	0-1		
	QPSK		0	1732.5	20175	22.55	23	0-1		
				1752.5	20375	22.85	23	0-1		
				1712.5	19975	22.58	0 23 5 23 5 23 8 23 3 23 0 23 1 23 6 23 4 23 9 23	0-1		
		12 RB	6	1732.5	20175	22.53	23	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1752.5	20375	22.90	23			
				1712.5	19975	22.61	23			
			13	1732.5	20175	22.46	23	0-1		
				1752.5	20375	22.84	23	0-1		
				1712.5	19975	22.29	23	0-1		
		25	RB	1732.5	20175	22.23	23	0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-		
5				1752.5	20375	22.61	23	0-1		
				1712.5	19975	22.69	23	0-1		
			0	1732.5	20175	22.55	23	0-1		
				1752.5	20375	22.93	23	0-1		
				1712.5	19975	22.14	23	0-1		
		1 RB	12	1732.5	20175	22.58	23	0-1		
				1752.5	20375	22.47	23			
				1712.5	19975	22.47	23	0-1		
			24	1732.5	20175	22.59	23			
				1752.5	20375	22.74	23			
				1712.5	19975	21.54	22			
	16-QAM		0	1732.5	20175	21.59	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1		
				1752.5	20375	21.88	22			
				1712.5	19975	21.63	22			
		12 RB	6	1732.5	20175	21.59	22			
				1752.5	20375	21.82	22	+		
			4-	1712.5	19975	21.60	22			
			13	1732.5	20175	21.50	22			
				1752.5	20375	21.71	22			
				1712.5	19975	21.29	22			
	25R		KB	1732.5	20175	21.20	22			
				1752.5	20375	21.57	22	0-2		

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Page: 25 of 328

	FDD Band 4											
				T DD Banu 4			T					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1711.5	19965	23.02	24	0				
			0	1732.5	20175	23.22	24	0				
				1753.5	20385	23.46	24	0				
				1711.5	19965	23.16	24	0				
		1 RB	7	1732.5	20175	23.33	24	0				
				1753.5	20385	23.62	24	0				
				1711.5	19965	23.13	24	0				
			14	1732.5	20175	23.20	24	0				
				1753.5	20385	23.52	24	0				
				1711.5	19965	22.17	23	0-1				
	QPSK		0	1732.5	20175	22.25	23	0-1				
				1753.5	20385	22.57	23	0-1				
				1711.5	19965	22.15	23	24 0 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1				
		8 RB	4	1732.5	20175	22.23	23					
				1753.5	20385	22.52	23	0-1				
				1711.5	19965	22.26	23	0-1				
			7	1732.5	20175	22.21	23	0-1 0-1 0-1 0-1 0-1 0-1				
				1753.5	20385	22.57	23	0-1				
				1711.5	19965	22.16	23	0-1				
		15	RB	1732.5	20175	22.24	23	0-1 0-1 0-1 0-1 0-1 0-1 0-1				
3				1753.5	20385	22.54						
Ŭ				1711.5	19965	22.31	23	0-1				
			0	1732.5	20175	22.64	23	0-1				
				1753.5	20385	22.38	23	0-1				
				1711.5	19965	22.47	23	0-1				
		1 RB	7	1732.5	20175	22.70	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1				
				1753.5	20385	22.97	23					
				1711.5	19965	22.07	23					
			14	1732.5	20175	22.43	23					
				1753.5	20385	22.92	23					
				1711.5	19965	21.27	22					
	16-QAM		0	1732.5	20175	21.33	22	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1				
				1753.5	20385	21.56	22					
				1711.5	19965	21.20	22					
		8 RB	4	1732.5	20175	21.05	22					
				1753.5	20385	21.55	22					
			_	1711.5	19965	21.25	22					
			7	1732.5	20175	21.31	22					
				1753.5	20385	21.48	22					
			DD	1711.5	19965	21.18	22					
		15	RB	1732.5	20175	21.34	22					
				1753.5	20385	21.54	22	0-2				

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Page: 26 of 328

				FDD Band 4						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1710.7	19957	23.23	24	0		
			0	1732.5	20175	23.25	24	0		
				1754.3	20393	23.51	24	0		
				1710.7	19957	23.19	24	0		
		1 RB	2	1732.5	20175	23.19	24	0		
				1754.3	20393	23.55	24	0		
				1710.7	19957	23.16	24	0		
			5	1732.5	20175	23.15	24	0		
				1754.3	20393	23.59	24	0		
				1710.7	19957	22.47	23	0		
	QPSK		0	1732.5	20175	22.52	23	0		
				1754.3	20393	22.83	23	0		
				1710.7	19957	22.48	23	0		
		3 RB	2	1732.5	20175	22.53	23	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1754.3	20393	22.83	23			
				1710.7	19957	22.48	23			
			3	1732.5	20175	22.49	23			
				1754.3	20393	22.83	23	0		
				1710.7	19957	22.17	23	0-1		
		6F	RB	1732.5	20175	22.19	23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
1.4				1754.3	20393	22.54	23	0-1		
1			0	1710.7	19957	21.98	23	0-1		
				1732.5	20175	22.64	23	0-1		
				1754.3	20393	22.43	23	0-1		
				1710.7	19957	22.16	23	0-1		
		1 RB	2	1732.5	20175	22.17	23	0-1		
				1754.3	20393	22.91	23			
				1710.7	19957	22.22	23	_		
			5	1732.5	20175	22.52	23			
				1754.3	20393	22.96	23			
	, , , , , , ,		_	1710.7	19957	22.23	23	-		
	16-QAM		0	1732.5	20175	22.26	23			
				1754.3	20393	22.46	23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1710.7	19957	22.14	23			
		3 RB	2	1732.5	20175	22.32	23			
				1754.3	20393	22.61	23			
				1710.7	19957	22.11	23			
			3	1732.5	20175	22.28	23			
				1754.3	20393	22.75	23			
		- -	20	1710.7 1732.5	19957	21.14	22			
		6F	6RB		20175	21.26	22			
				1754.3	20393	21.50	22	0-2		

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Page: 27 of 328

	FDD Band 5											
				טט אווע טט ז			т					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				829	20450	23.01	24	0				
			0	836.5	20525	23.07	24	0				
				844	20600	22.89	24	0				
				829	20450	23.08	24	0				
		1 RB	25	836.5	20525	22.77	24	0				
				844	20600	22.84	24	0				
				829	20450	22.96	24	0				
			49	836.5	20525	22.93	24	0				
				844	20600	23.10	24	0				
				829	20450	22.09	23	0-1				
	QPSK		0	836.5	20525	21.87	23	0-1				
				844	20600	21.69	23	0-1				
				829	20450	21.98	23	0-1				
		25 RB	12	836.5	20525	21.86	23	0-1				
				844	20600	21.79	23	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
				829	20450	22.03	23					
			25	836.5	20525	21.81	23	0-1				
				844	20600	22.11	23	0-1				
				829	20450	22.14	23	0-1				
		50	RB	836.5	20525	21.88	23	0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1				
10				844	20600	21.99	23					
				829	20450	22.57	23	0-1				
			0	836.5	20525	22.32	23	0-1				
				844	20600	22.13	23	0-1				
				829	20450	22.44	23	0-1				
		1 RB	25	836.5	20525	22.61	23	0-1				
				844	20600	22.49	23	0-1				
				829	20450	22.14	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1				
			49	836.5	20525	22.33	23					
				844	20600	22.54	23					
				829	20450	21.25	22	0-2				
	16-QAM		0	836.5	20525	20.94	22					
				844	20600	20.90	22					
				829	20450	21.21	22					
		25 RB	12	836.5	20525	21.04	22					
				844	20600	20.95	22	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1				
				829	20450	21.22	22					
			25	836.5	20525	20.94	22					
				844	20600	21.13	22					
				829	20450	21.17	22					
		50RB		836.5	20525	20.97	22					
				844	20600	21.11	22	0-2				

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Page: 28 of 328

	FDD Band 5												
				T DD Balla 3			Target						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)					
				826.5	20425	23.00	24	0					
			0	836.5	20525	22.82	24	0					
				846.5	20625	22.73	24	0					
				826.5	20425	22.96	24	0					
		1 RB	12	836.5	20525	22.76	24	0					
				846.5	20625	22.92	24	0					
				826.5	20425	22.98	24	0					
			24	836.5	20525	22.81	24	0					
				846.5	20625	23.05	24	0					
				826.5	20425	22.03	23	0-1					
	QPSK		0	836.5	20525	21.80	23	0-1					
				846.5	20625	21.72	23	0-1					
				826.5	20425	22.03	23	0-1					
		12 RB	6	836.5	20525	21.79	23	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
				846.5	20625	21.84	23						
				826.5	20425	21.98	23						
			13	836.5	20525	21.81	23						
				846.5	20625	21.89	23	0-1					
				826.5	20425	22.01	23	0-1					
		25	RB	836.5	20525	21.81	23	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-					
5				846.5	20625	22.00	23						
Ŭ			0	826.5	20425	22.16	23	0-1					
				836.5	20525	22.23	23	0-1					
				846.5	20625	22.36	23	0-1					
				826.5	20425	22.04	23	0-1					
		1 RB	12	836.5	20525	22.43	23	0-1					
				846.5	20625	22.02	23	MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
				826.5	20425	22.19	23						
			24	836.5	20525	22.47	23						
				846.5	20625	21.77	23	0-1					
				826.5	20425	21.08	22						
	16-QAM		0	836.5	20525	20.84	22						
				846.5	20625	20.92	22	0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-					
				826.5	20425	21.11	22	0-2					
		12 RB	6	836.5	20525	20.93	22						
				846.5	20625	20.85	22	0-2					
				826.5	20425	21.06	22						
			13	836.5	20525	20.93	22						
				846.5	20625	20.94	22						
ĺ				826.5	20425	20.95	22						
		25	RB	836.5	20525	20.86	22						
				846.5	20625	20.75	22	0-2					

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Page: 29 of 328

	FDD Band 5											
				1 DD Danu 3			Torget					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				825.5	20415	23.03	24	0				
			0	836.5	20525	22.71	24	0				
				847.5	20635	22.77	24	0				
				825.5	20415	23.00	24	0				
		1 RB	7	836.5	20525	22.79	24	0				
				847.5	20635	22.91	24	0				
				825.5	20415	22.99	24	0				
			14	836.5	20525	22.68	24	0				
				847.5	20635	22.94	24	0				
				825.5	20415	22.01	23	0-1				
	QPSK		0	836.5	20525	21.79	23	0-1				
				847.5	20635	21.92	23	0-1				
				825.5	20415	22.02	23	0-1				
		8 RB	4	836.5	20525	21.80	Max. Tolerance (dBm) 24 24 24 24 24 24 24 24 24 24 24 24 24	0-1				
				847.5	20635	21.97	23	0-1				
				825.5	20415	22.05	23	0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-				
			7	836.5	20525	21.82	23					
				847.5	20635	21.97	23	0-1				
				825.5	20415	21.99	23	0-1				
		15	RB	836.5	20525	21.79	23	0-1				
3				847.5	20635	22.03	23	0-1				
				825.5	20415	22.32	23	0-1				
			0	836.5	20525	21.83	23	0-1				
				847.5	20635	22.38	23	0-1				
				825.5	20415	22.04	23	0-1				
		1 RB	7	836.5	20525	22.61	23	0-1				
				847.5	20635	22.50	23	0-1				
				825.5	20415	Conducted power (dBm)	0-1					
			14	836.5	20525		23	0-1				
				847.5	20635			0-1				
				825.5	20415	20.96	22	0-2				
	16-QAM		0	836.5	20525							
				847.5	20635	20.89						
				825.5	20415	20.99	22	0-2				
		8 RB	4	836.5	20525							
				847.5	20635	21.00	22	0-2				
				825.5	20415			0-2				
			7	836.5	20525							
				847.5	20635							
				825.5	20415		22					
		15	RB	836.5	20525	20.77		0-2				
			847.5	20635	21.02	22	0-2					

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Page: 30 of 328

				FDD Band 5						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				824.7	20407	23.04	24	0		
			0	836.5	20525	22.81	24	0		
				848.3	20643	22.99	24	0		
				824.7	20407	23.08	24	0		
		1 RB	2	836.5	20525	22.86	24	0		
				848.3	20643	22.92	24	0		
				824.7	20407	23.07	24	0		
			5	836.5	20525	22.81	24	0		
				848.3	20643	23.01	24	0		
				824.7	20407	22.94	23	0		
	QPSK		0	836.5	20525	22.82	23	0		
				848.3	20643	23.00	23	0		
				824.7	20407	22.97	23 23	0		
		3 RB	2	836.5	20525	22.79	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				848.3	20643	22.98	23			
				824.7	20407	22.96	23	0		
			3	836.5	20525	22.82	23	0		
				848.3	20643	23.00	23	0		
				824.7	20407	22.06	23	0-1		
		6F	RB	836.5	20525	21.83	23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
1.4				848.3	20643	22.03	23	0-1		
1				824.7	20407	22.57	23	0-1		
			0	836.5	20525	22.41	23	0-1		
				848.3	20643	22.27	23	0-1		
				824.7	20407	22.49	23	0-1		
		1 RB	2	836.5	20525	22.25	23	0-1		
				848.3	20643	22.33	23	0-1		
				824.7	20407	22.44	23	0-1		
			5	836.5	20525	21.88	23	0-1		
				848.3	20643	22.49	23	0-1		
				824.7	20407	22.21	23	-		
	16-QAM		0	836.5	20525	21.90	23			
				848.3	20643	21.77	23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				824.7	20407	22.08	23			
		3 RB	2	836.5	20525	22.05	23			
				848.3	20643	22.08	23			
				824.7	20407	22.22	23			
			3	836.5	20525	21.83	23			
				848.3	20643	22.14	23			
			20	824.7	20407	21.17	22			
		6F	RB	836.5	20525	20.75	22			
				848.3	20643	20.98	22	0-2		

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Page: 31 of 328

				FDD Band 7						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				2510	20850	22.51	24	0		
			0	2535	21100	22.52	24	0		
				2560	21350	22.88	24	0		
				2510	20850	22.81	24	0		
		1 RB	50	2535	21100	22.62	24	0		
				2560	21350	22.72	24	0		
				2510	20850	22.70	24	0		
			99	2535	21100	23.07	24	0		
				2560	21350	22.91	24	0		
				2510	20850	21.74	23	0-1		
	QPSK		0	2535	21100	21.51	23	0-1		
				2560	21350	21.86	23	0-1		
				2510	20850	21.69	23	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		50 RB	25	2535	21100	21.58	23			
				2560	21350	21.83	23			
				2510	20850	21.65	23			
			50	2535	21100	21.78	23			
				2560	21350	21.81	23	0-1		
				2510	20850	21.71	23			
		100)RB	2535	21100	21.75	23	0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1		
20			ī	2560	21350	21.89	23			
				2510	20850	22.09	23			
			0	2535	21100	21.51	23			
				2560	21350	22.40	23			
				2510	20850	22.05	23			
		1 RB	50	2535	21100	22.18	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1		
				2560	21350	22.34	23			
			00	2510	20850	22.12	23	_		
			99	2535	21100	22.34	23			
				2560	21350	22.12	23			
	16 0 4 14			2510	20850	20.85	22			
	16-QAM		0	2535	21100	20.58	22			
				2560	21350	20.91	22			
		EO DD	05	2510	20850	20.80	22			
		50 RB	25	2535	21100	20.72	22			
				2560	21350	20.87	22	0-1 0-2 0-2 0-2 0-2 0-2 0-2		
			50	2510	20850	20.64	22			
			50	2535	21100	20.83	22			
				2560 2510	21350	20.85	22			
		100)RR	2510 2535	20850	20.83	22			
		100	100RB		21100	20.90	22			
				2560	21350	20.93	22	0-2		

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Page: 32 of 328

				FDD Band 7				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2507.5	20825	22.53	24	0
			0	2535	21100	22.59	24	0
				2562.5	21375	22.76	24	0
				2507.5	20825	22.76	24	0
		1 RB	36	2535	21100	22.57	24	0
				2562.5	21375	22.74	24	0
				2507.5	20825	22.64	24	0
			74	2535	21100	22.89	24	0
				2562.5	21375	22.88	24	0
				2507.5	20825	21.70	23	0-1
	QPSK		0	2535	21100	21.58	23	0-1
				2562.5	21375	21.83	23	0-1
				2507.5	20825	21.72	23	0-1
		36 RB	18	2535	21100	21.71	23	0-1
				2562.5	21375	21.80	23	0-1
			37	2507.5	20825	21.75	23	0-1
				2535	21100	21.75	23	0-1
				2562.5	21375	21.75	23	0-1
		75RB		2507.5	20825	21.74	23	0-1
				2535	21100	21.68	23	0-1
45				2562.5	21375	21.83	23	0-1
15		1 RB	0	2507.5	20825	21.84	23	0-1
				2535	21100	21.57	23	0-1
				2562.5	21375	22.50	23	0-1
			36	2507.5	20825	22.41	23	0-1
				2535	21100	22.11	23	0-1
İ				2562.5	21375	21.90	23	0-1
				2507.5	20825	21.92	23	0-1
			74	2535	21100	22.33	23	0-1
				2562.5	21375	22.06	23	0-1
				2507.5	20825	20.85	22	0-2
	16-QAM		0	2535	21100	20.69	22	0-2
				2562.5	21375	20.84	22	0-2
				2507.5	20825	20.91	22	0-2
		36 RB	18	2535	21100	20.77	22	0-2
				2562.5	21375	20.87	22	0-2
				2507.5	20825	20.83	22	0-2
			37	2535	21100	20.82	22	0-2
				2562.5	21375	20.83	22	0-2
		75RB		2507.5	20825	20.87	22	0-2
Ì				2535	21100	20.78	22	0-2
				2562.5	21375	20.89	22	0-2

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 33 of 328

				FDD Band 7				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2505	20800	22.72	24	0
			0	2535	21100	22.39	24	0
				2565	21400	22.84	24	0
				2505	20800	22.77	24	0
		1 RB	25	2535	21100	22.63	24	0
				2565	21400	22.82	24	0
				2505	20800	22.81	24	0
			49	2535	21100	22.77	24	0
				2565	21400	22.98	24	0
				2505	20800	21.77	23	0-1
	QPSK		0	2535	21100	21.67	23	0-1
				2565	21400	21.86	23	0-1
		25 RB		2505	20800	21.83	23	0-1
			12	2535	21100	21.71	23	0-1
				2565	21400	21.81	23	0-1
			25	2505	20800	21.84	23	0-1
				2535	21100	21.72	23	0-1
				2565	21400	21.91	23	0-1
		50RB		2505	20800	21.82	23	0-1
				2535	21100	21.69	23	0-1
10				2565	21400	21.79	23	0-1
		1 RB 2	0	2505	20800	22.20	23	0-1
				2535	21100	21.76	23	0-1
				2565	21400	22.32	23	0-1
			25	2505	20800	22.21	23	0-1
				2535	21100	22.02	23	0-1
				2565	21400	21.80	23	0-1
			40	2505	20800	22.34	23	0-1
			49	2535	21100	22.19	23	0-1
				2565	21400	22.44	23	0-1
	16 0 4 14			2505	20800	20.83	22	0-2
	16-QAM		0	2535	21100	20.76	22	0-2
				2565	21400	21.02	22	0-2
		OE DD	10	2505	20800	20.94	22	0-2
		25 RB	12	2535	21100	20.88	22	0-2
				2565	21400	20.77	22	0-2
			25	2505	20800	20.84	22	0-2
			25	2535	21100	20.84	22	0-2
				2565 2505	21400	20.90 20.87	22	0-2
		EO	FODD		20800		22	0-2
		50RB		2535	21100	20.87	22	0-2
				2565	21400	20.90	22	0-2

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Page: 34 of 328

				FDD Band 7				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2502.5	20775	22.69	24	0
			0	2535	21100	22.61	24	0
				2567.5	21425	22.76	24	0
				2502.5	20775	22.74	24	0
		1 RB	12	2535	21100	22.68	24	0
				2567.5	21425	22.75	24	0
				2502.5	20775	22.78	24	0
			24	2535	21100	22.66	24	0
				2567.5	21425	22.86	24	0
				2502.5	20775	21.76	23	0-1
	QPSK		0	2535	21100	21.62	23	0-1
				2567.5	21425	21.81	23	0-1
				2502.5	20775	21.78	23	0-1
		12 RB	6	2535	21100	21.62	23	0-1
				2567.5	21425	21.80	23	0-1
			13	2502.5	20775	21.84	23	0-1
				2535	21100	21.65	23	0-1
				2567.5	21425	21.86	23	0-1
		25RB		2502.5	20775	21.82	23	0-1
				2535	21100	21.63	23	0-1
5				2567.5	21425	21.79	23	0-1
]			0	2502.5	20775	22.40	23	0-1
				2535	21100	21.92	23	0-1
				2567.5	21425	21.97	23	0-1
		<u> </u>	12	2502.5	20775	22.18	23	0-1
				2535	21100	21.69	23	0-1
				2567.5	21425	21.91	23	0-1
				2502.5	20775	22.11	23	0-1
			24	2535	21100	22.43	23	0-1
				2567.5	21425	22.33	23	0-1
				2502.5	20775	20.87	22	0-2
	16-QAM		0	2535	21100	20.73	22	0-2
				2567.5	21425	20.92	22	0-2
				2502.5	20775	20.77	22	0-2
		12 RB	6	2535	21100	20.68	22	0-2
				2567.5	21425	20.86	22	0-2
				2502.5	20775	20.80	22	0-2
			13	2535	21100	20.68	22	0-2
				2567.5	21425	20.95	22	0-2
			-		20775	20.79	22	0-2
		25RB		2535	21100	20.63	22	0-2
				2567.5	21425	20.84	22	0-2

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Page: 35 of 328

				FDD Band 12				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				704	23060	23.01	24	0
			0	707.5	23095	23.13	24	0
				711	23130	22.91	24	0
				704	23060	22.97	24	0
		1 RB	25	707.5	23095	22.84	24	0
				711	23130	23.02	24	0
				704	23060	22.95	24	0
			49	707.5	23095	23.18	24	0
				711	23130	22.99	24	0
				704	23060	22.10	23	0-1
	QPSK		0	707.5	23095	22.07	23	0-1
		25 RB		711	23130	21.85	23	0-1
				704	23060	21.98	23	0-1
			12	707.5	23095	21.95	23	0-1
				711	23130	22.00	23	0-1
			25	704	23060	22.01	23	0-1
				707.5	23095	21.92	23	0-1
				711	23130	22.01	23	0-1
		50RB		704	23060	22.11	23	0-1
				707.5	23095	22.07	23	0-1
10				711	23130	22.17	23	0-1
				704	23060	22.08	23	0-1
		1 RB	0	707.5	23095	22.54	23	0-1
				711	23130	21.71	23	0-1
			25	704	23060	22.01	23	0-1
				707.5	23095	22.39	23	0-1
				711	23130	22.50	23	0-1
			49	704	23060	22.57	23	0-1
				707.5	23095	22.66	23	0-1
				711	23130	22.36	23	0-1
	16 0 4 14			704	23060	21.18	22	0-2
	16-QAM		0	707.5	23095	21.28	22	0-2
				711	23130	20.96	22	0-2
		OF DD	10	704 707.5	23060	21.20	22	0-2
		25 RB	12	707.5	23095	21.20	22	0-2
				711	23130	20.91	22	0-2
			25	704	23060	21.10	22	0-2
			25	707.5	23095	21.11	22	0-2
				711	23130	21.20	22	0-2
		50RB		704	23060	21.14	22	0-2
				707.5	23095	21.19	22	0-2
				711	23130	21.21	22	0-2

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Page: 36 of 328

FDD Band 12										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				701.5	23035	22.97	24	0		
			0	707.5	23095	23.01	24	0		
				713.5	23155	22.90	24	0		
				701.5	23035	23.09	24	0		
		1 RB	12	707.5	23095	22.85	24	0		
				713.5	23155	22.98	24	0		
				701.5	23035	23.19	24	0		
			24	707.5	23095	22.91	24	0		
				713.5	23155	23.03	24	0		
				701.5	23035	22.16	23	0-1		
	QPSK		0	707.5	23095	21.95	23	0-1		
				713.5	23155	22.05	23	0-1		
				701.5	23035	22.07	23	0-1		
		12 RB	6	707.5	23095	21.91	23	0-1		
				713.5	23155	22.00	23	0-1		
			13	701.5	23035	22.12	23	0-1		
				707.5	23095	21.96	23	0-1		
				713.5	23155	22.18	23	0-1		
		25RB		701.5	23035	22.12	23	0-1		
				707.5	23095	21.97	23	0-1		
5				713.5	23155	21.94	23	0-1		
5			0	701.5	23035	22.53	23	0-1		
				707.5	23095	22.35	23	0-1		
				713.5	23155	22.20	23	0-1		
		1 RB	12	701.5	23035	22.34	23	0-1		
				707.5	23095	22.46	23	0-1		
				713.5	23155	22.58	23	0-1		
			24	701.5	23035	22.16	23	0-1		
				707.5	23095	22.32	23	0-1		
				713.5	23155	22.44	23	0-1		
				701.5	23035	21.05	22	0-2		
	16-QAM		0	707.5	23095	20.96	22	0-2		
				713.5	23155	20.98	22	0-2		
				701.5	23035	21.15	22	0-2		
		12 RB	6	707.5	23095	20.97	22	0-2		
				713.5	23155	21.14	22	0-2		
				701.5	23035	21.14	22	0-2		
			13	707.5	23095	21.04	22	0-2		
				713.5	23155	20.88	22	0-2		
		25RB		701.5	23035	20.98	22	0-2		
				707.5	23095	21.02	22	0-2		
				713.5	23155	20.95	22	0-2		

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Page: 37 of 328

				FDD Band 12						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				700.5	23025	23.02	24	0		
			0	707.5	23095	23.00	24	0		
				714.5	23165	22.94	24	0		
				700.5	23025	23.08	24	0		
		1 RB	7	707.5	23095	22.96	24	0		
				714.5	23165	22.92	24	0		
				700.5	23025	23.16	24	0		
			14	707.5	23095	22.87	24	0		
				714.5	23165	22.86	24	0		
				700.5	23025	21.96	23	0-1		
	QPSK		0	707.5	23095	21.95	23	0-1		
				714.5	23165	22.00	23	0-1		
				700.5	23025	22.02	23	0-1		
		8 RB	4	707.5	23095	21.93	23	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				714.5	23165	21.75	23			
				700.5	23025	22.14	23			
			7	707.5	23095	21.97	23			
				714.5	23165	22.02	23	0-1		
				700.5	23025	22.16	23	0-1		
		15	RB	707.5	23095	21.93	23	0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1		
3				714.5	23165	21.96	23	0-1		
				700.5	23025	22.51	23	0-1		
			0	707.5	23095	22.30	23	0-1		
				714.5	23165	21.79	23			
				700.5	23025	22.33	23			
		1 RB	7	707.5	23095	22.16	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-		
				714.5	23165	22.40	23			
			.	700.5	23025	21.98	23			
			14	707.5	23095	21.97	23			
				714.5	23165	22.54	23			
	100014			700.5	23025	21.00	22			
	16-QAM		0	707.5	23095	21.08	22			
				714.5	23165	21.07	22			
		0.55		700.5	23025	21.11	22			
		8 RB	4	707.5	23095	21.06	22	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-		
				714.5	23165	21.05	22			
			_	700.5	23025	21.14	22			
			7	707.5	23095	20.92	22			
				714.5	23165	21.05	22			
		4.5	DD	700.5	23025	21.13	22			
		15	RB	707.5	23095	20.97	22			
				714.5	23165	21.15	22	0-2		

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SGS Taiwan Ltd.



Page: 38 of 328

	FDD Band 12											
				בו שמוע ועם ד			т					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				699.7	23017	22.91	24	0				
			0	707.5	23095	22.90	24	0				
				715.3	23173	22.97	24	0				
				699.7	23017	22.86	24	0				
		1 RB	2	707.5	23095	22.91	24	0				
				715.3	23173	22.77	24	0				
				699.7	23017	23.00	24	0				
			5	707.5	23095	22.94	24	0				
				715.3	23173	22.87	24	0				
				699.7	23017	22.92	23	0				
	QPSK		0	707.5	23095	22.95	23	0				
				715.3	23173	22.96	23	0				
				699.7	23017	22.97	23	0				
		3 RB	2	707.5	23095	22.90	23	0				
				715.3	23173	22.79	23	0				
				699.7	23017	22.96	23	9 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
			3	707.5	23095	22.94	23					
				715.3	23173	22.92	23	0				
			•	699.7	23017	22.03	23	0-1				
		61	RB	707.5	23095	21.88	23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
4.4				715.3	23173	21.86	23	0-1				
1.4				699.7	23017	22.54	23	0-1				
			0	707.5	23095	22.14	23	0-1				
				715.3	23173	21.89	23	0-1				
				699.7	23017	22.46	23	0-1				
		1 RB	2	707.5	23095	22.26	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
				715.3	23173	22.32	23	0-1				
				699.7	23017	22.16	23	0-1				
			5	707.5	23095	21.83	23	0-1				
				715.3	23173	22.16	23	0-1				
				699.7	23017	22.16	23	0-1				
	16-QAM		0	707.5	23095	21.92	23	0-1				
				715.3	23173	22.12	23	0-1				
				699.7	23017	22.12	23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1				
		3 RB	2	707.5	23095	22.03	23					
				715.3	23173	21.99	23					
				699.7	23017	22.29	23	0-1				
			3	707.5	23095	21.93	23	0-1				
				715.3	23173	22.02	23	0-1				
				699.7	23017	21.02	22	0-2				
		61	RB	707.5	23095	20.99	22	0-2				
				715.3	23173	21.02	22	0-2				

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Page: 39 of 328

				FDD Band 13				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	782	23230	23.01	24	0
		1 RB	25	782	23230	22.96	24	0
			49	782	23230	23.08	24	0
	QPSK		0	782	23230	22.07	23	0-1
		25 RB	12	782	23230	21.91	23	0-1
			25	782	23230	21.98	23	0-1
10		50RB		782	23230	22.13	23	0-1
10			0	782	23230	22.20	23	0-1
		1 RB	25	782	23230	22.03	23	0-1
			49	782	23230	22.44	23	0-1
	16-QAM		0	782	23230	20.93	22	0-2
		25 RB	12	782	23230	21.03	22	0-2
			25	782	23230	21.06	22	0-2
		50	RB	782	23230	21.14	22	0-2

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Page: 40 of 328

				FDD Band 13					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
				779.5	23205	22.97	24	0	
			0	782	23230	22.86	24	0	
				784.5	23255	22.84	24	0	
				779.5	23205	22.94	24	0	
		1 RB	12	782	23230	22.78	24	0	
				784.5	23255	23.01	24	0	
				779.5	23205	22.83	24	0	
			24	782	23230	22.88	24	0	
				784.5	23255	22.97	24	0	
				779.5	23205	21.79	23	0-1	
	QPSK		0	782	23230	21.74	23	0-1	
				784.5	23255	21.72	23	0-1	
				779.5	23205	21.85	23	0-1	
		12 RB	6	782	23230	21.80	23	0-1	
				784.5	23255	21.94	23	0-1	
				779.5	23205	21.70	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-	
			13	782	23230	21.84	23		
				784.5	23255	22.04	23	0-1	
				779.5	23205	21.89	23	0-1	
		25	RB	782	23230	21.92	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1	
5				784.5	23255	22.03	23	0-1	
Ü			24 0 12 RB 6 13 25RB 0 1 RB 12 24 0	779.5	23205	22.55	23	0-1	
				782	23230	22.05	23	0-1	
				784.5	23255	22.15	23	0-1	
				779.5	23205	22.14	23		
		1 RB	12	782	23230	22.12	23	0-1	
				784.5	23255	22.28	23		
				779.5	23205	22.29	23		
			24	782	23230	22.50	23		
				784.5	23255	22.65	23		
				779.5	23205	20.87	22		
	16-QAM		0	782	23230	20.76	22		
				784.5	23255	20.82	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-	
		40.55		779.5	23205	20.74	22		
		12 RB	6	782	23230	20.83	22		
				784.5	23255	21.11	22		
			40	779.5	23205	20.74	22		
			13	782	23230	20.84	22		
				784.5	23255	21.17	22		
		٥-	DD	779.5	23205	20.89	22	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1	
	25RB		782 784.5	23230	20.78	22			
					23255	21.07	22	0-2	

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Page: 41 of 328

	FDD Band 17												
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)					
				709	23780	22.91	24	0					
			0	710	23790	22.98	24	0					
				711	23800	23.03	24	0					
				709	23780	23.00	24	0					
		1 RB	25	710	23790	22.86	24	0					
				711	23800	22.99	24	0					
				709	23780	23.12	24	0					
			49	710	23790	23.04	24	0					
				711	23800	23.03	24	0					
				709	23780	21.97	23	0-1					
	QPSK		0	710	23790	21.94	23	0-1					
				711	23800	21.89	23	0-1					
				709	23780	21.88	23	0-1					
		25 RB	12	710	23790	22.00	23	0-1					
				711	23800	22.01	23	0-1					
				709	23780	22.09	23	0 0 0 0 0 0 0-1 0-1 0-1 0-1					
			25	710	23790	22.03	23						
				711	23800	22.10	23						
			<u>l</u>	709	23780	21.96	23						
		50	RB	710	23790	22.17	23	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-					
				711	23800	22.04	0-1						
10				709	23780	22.07	23	0-1					
			0	710	23790	22.35	23	0-1					
				711	23800	22.35	23	0-1					
				709	23780	22.23	23	0-1					
		1 RB	25	710	23790	22.14	23	0-1					
				711	23800	22.43	23						
				709	23780	22.81	23	0-1					
			49	710	23790	22.74	23	0-1					
				711	23800	22.51	23	0-1					
				709	23780	21.13	22	0-2					
	16-QAM		0	710	23790	21.11	22	0-2					
				711	23800	21.04	22	0-2					
				709	23780	20.99	22	0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2					
		25 RB	12	710	23790	21.04	22	0-2					
				711	23800	21.04	22	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					
				709	23780	21.23	22	0-2					
			25	710	23790	21.17	22	0-2					
				711	23800	21.20	22	0-2					
				709	23780	21.29	22	0-2					
		50	RB	710	23790	21.17	22	0-2					
				711	23800	21.28	22	0-2					

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Page: 42 of 328

				FDD Band 17						
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	22.97	24	0		
			0	710	23790	22.86	24	0		
				713.5	23825	22.84	24	0		
				706.5	23755	22.96	24	0		
		1 RB	12	710	23790	22.80	24	0		
				713.5	23825	23.10	24	0		
				706.5	23755	22.96	24	0		
			24	710	23790	22.97	24	0		
				713.5	23825	23.02	24	0		
				706.5	23755	21.91	23	0-1		
	QPSK		0	710	23790	21.80	23	0-1		
				713.5	23825	21.92	23	0-1		
				706.5	23755	21.90	23	0-1		
		12 RB	6	710	23790	21.98	23	0-1		
				713.5	23825	21.99	23	0-1		
				706.5	23755	21.90	23	0-1		
			13	710	23790	21.97		0-1		
				713.5	23825	21.89	23	0-1		
				706.5	23755	21.89		0-1		
		25	RB	710	23790	21.91		0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-		
5			Ī	713.5	23825	21.89				
			_	706.5	23755	22.54				
			0	710	23790	22.18				
				713.5	23825	22.34				
				706.5	23755	22.17				
		1 RB	12	710	23790	22.37				
				713.5	23825	22.73				
			0.4	706.5	23755	21.74				
			24	710	23790	22.42				
				713.5	23825	22.60				
	16.0414		_	706.5	23755	21.02				
	16-QAM		0	710	23790	20.85				
				713.5	23825	21.13				
		10 00	_	706.5	23755	20.87				
		12 RB	6	710	23790	21.01		0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1		
				713.5	23825	21.14				
			13	706.5	23755	21.01				
			13	710	23790	20.99				
				713.5	23825	21.00				
		OE.	RR	706.5	23755	20.99	23 23 23 23 23 23 23			
	25RB		טח	710 713.5	23790	20.88				
				713.5	23825	20.99	22	0-2		

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Page: 43 of 328

				FDD Band 26							
				. 55 Bana 20			Torest				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				822.5	26825	23.11	24	0			
			0	831.5	26865	22.95	24	0			
				841.5	26965	22.85	24	0			
				822.5	26825	23.06	24	0			
		1 RB	36	831.5	26865	23.01	24	0			
				841.5	26965	22.90	24	0			
				822.5	26825	22.76	24	0			
			74	831.5	26865	22.74	24	0			
				841.5	26965	22.94	24	0			
				822.5	26825	22.09	23	0-1			
	QPSK		0	831.5	26865	22.15	23	0-1			
				841.5	26965	21.83	23	0-1			
				822.5	26825	22.07	23	0-1			
		36 RB	18	831.5	26865	22.07	23				
				841.5	26965	21.76	23				
				822.5	26825	22.08	23	0-1			
			37	831.5	26865	21.87	23	0-1			
				841.5	26965	21.95	23	0-1			
				822.5	26825	22.20	23				
		75	RB	831.5	26865	22.18	23	0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
15			1	841.5	26965	22.09	23				
			822.5	26825	22.27	23					
			0	831.5	26865	22.09	23				
				841.5	26965	22.29	23				
		4 55		822.5	26825	22.36	23				
		1 RB	36	831.5	26865	22.56	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1			
				841.5	26965	22.29	23				
			7.4	822.5	26825	22.50	23				
			74	831.5	26865	22.63	23				
				841.5	26965	22.36	23				
	16-QAM		0	822.5	26825	21.25	22				
	10-QAW		U	831.5	26865	21.20	22				
				841.5	26965	20.94	22	0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-			
		36 RB	18	822.5	26825	21.12	22				
		30 ND	10	831.5	26865	21.10	22				
				841.5	26965	20.88	22	0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
			37	822.5	26825	21.23	22				
			37	831.5	26865	20.96	22				
				841.5	26965	21.02	22				
		75	RB	822.5	26825	21.28	22				
		/5	ווט	831.5	26865	21.27	22				
				841.5	26965	20.92	22	0-2			

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SGS Taiwan Ltd.



Page: 44 of 328

				FDD Band 26						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				820	26750	23.16	24	0		
			0	831.5	26865	23.02	24	0		
				844	26990	22.84	24	0		
				820	26750	23.05	24	0		
		1 RB	25	831.5	26865	22.96	24	0		
				844	26990	22.80	24	0		
				820	26750	23.03	24	0		
			49	831.5	26865	22.88	24	0		
				844	26990	23.06	24	0		
				820	26750	22.06	23	0-1		
	QPSK		0	831.5	26865	21.96	23	0-1		
				844	26990	21.92	23	0-1		
				820	26750	22.16	23	0-1		
		25 RB	12	831.5	26865	22.09	23	0-1		
				844	26990	21.80	23	0-1		
				820	26750	22.09	23	0-1		
			25	831.5	26865	21.94	23	0-1		
				844	26990	22.13	23	0-1		
				820	26750	22.18	23			
		50	RB	831.5	26865	22.03	23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0		
10			1	844	26990	21.96	23			
				820	26750	22.40	23			
			0	831.5	26865	22.57	23			
				844	26990	22.05	23			
				820	26750	22.63	23			
		1 RB	25	831.5	26865	22.43	23			
				844	26990	22.04	23	_		
			40	820	26750	22.45	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
			49	831.5	26865	22.48	23			
				844	26990	22.32	23			
	10 000		0	820	26750	21.31	22			
	16-QAM		0	831.5	26865	21.05	22			
				844	26990	20.93	22			
		OE DD	10	820	26750	21.28	22	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1		
		25 RB	12	831.5	26865	21.16	22			
				844	26990	20.92	22			
			25	820	26750	21.17	22			
			20	831.5	26865	20.99	22			
				844 820	26990	21.10	22 22			
		50	RB	820 831.5	26750 26865	21.18 21.04	22			
			י יי	844	26990	21.04	22			
				044	20330	41.11	22	0-2		

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Page: 45 of 328

				FDD Band 26				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				816.5	26715	23.04	24	0
			0	831.5	26865	22.90	24	0
				846.5	27015	22.66	24	0
				816.5	26715	23.05	24	0
		1 RB	12	831.5	26865	22.96	24	0
				846.5	27015	22.83	24	0
				816.5	26715	23.21	24	0
			24	831.5	26865	22.88	24	0
				846.5	27015	22.93	24	0
				816.5	26715	22.02	23	0-1
	QPSK		0	831.5	26865	22.05	23	0-1
				846.5	27015	21.82	23	0-1
				816.5	26715	22.13	23	0-1
		12 RB	6	831.5	26865	21.94	23	0-1
				846.5	27015	21.94	23	0-1
				816.5	26715	22.20	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-
			13	831.5	26865	21.89	23	0-1
				846.5	27015	21.86	23	0-1
				816.5	26715	22.17	23	0-1
		25	RB	831.5	26865	21.94	23	0-1
5				846.5	27015	21.72	23	
				816.5	26715	22.68	23	
			0	831.5	26865	22.21	23	0-1
				846.5	27015	21.90	23	
				816.5	26715	22.54	23	
		1 RB	12	831.5	26865	22.34	23	
				846.5	27015	22.04	23	
				816.5	26715	22.84	23	
			24	831.5	26865	22.08	23	
				846.5	27015	22.13	23	
	10.041			816.5	26715	21.18	22	
	16-QAM		0	831.5	26865	20.91	22	
				846.5	27015	20.79	22	
		40.55		816.5	26715	21.24	22	
		12 RB	6	831.5	26865	21.02	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-
				846.5	27015	20.80	22	
			40	816.5	26715	21.25	22	
			13	831.5	26865	20.98	22	
				846.5	27015	20.82	22	
		٥٦	DD	816.5	26715	21.13	22	
			RB	831.5	26865	20.99	22	
				846.5	27015	20.91	22	0-2

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Page: 46 of 328

				FDD Band 26							
				. 55 5414 20			Target				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				815.5	26705	23.02	24	0			
			0	831.5	26865	22.88	24	0			
				847.5	27025	22.73	24	0			
				815.5	26705	23.08	24	0			
		1 RB	7	831.5	26865	22.94	24	0			
				847.5	27025	23.02	24	0			
				815.5	26705	23.02	24	0			
			14	831.5	26865	22.85	24	0			
				847.5	27025	22.96	24	0			
				815.5	26705	22.00	23	0-1			
	QPSK		0	831.5	26865	22.08	23	0-1			
				847.5	27025	21.81	23	0-1			
				815.5	26705	21.95	23	0-1			
		8 RB	4	831.5	26865	22.02	23				
				847.5	27025	21.87	23	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
			_	815.5	26705	22.14	23				
			7	831.5	26865	21.93	23				
				847.5	27025	21.78	23				
				815.5	26705	22.05	23				
		15	RB	831.5	26865	21.94	23	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
3			1	847.5	27025	21.91	23				
				815.5	26705	22.10	23				
			0	831.5	26865	22.52	23				
				847.5	27025	22.12	23				
		4 55	_	815.5	26705	21.80	23				
		1 RB	7	831.5	26865	22.56	23	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O			
				847.5	27025	21.95	23				
			4.4	815.5	26705	22.87	23				
			14	831.5	26865	22.06	23				
				847.5	27025	22.07	23 22				
	16 OAM			815.5	26705	21.11					
	16-QAM		0	831.5	26865	21.17	22				
				847.5	27025	20.93	22				
		8 RB	4	815.5	26705	21.02	22 22				
		o ND	4	831.5	26865	21.00					
				847.5 815.5	27025	20.79	22	0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-			
			7		26705	21.18	22				
			'	831.5	26865	20.79	22				
				847.5	27025	21.05	22				
		1 =	RB	815.5	26705	21.06	22				
		15	ווט	831.5	26865	20.98	22				
				847.5	27025	20.98	22	0-2			

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Page: 47 of 328

				FDD Band 26				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				814.7	26697	22.89	24	0
			0	831.5	26865	22.94	24	0
				848.3	27033	22.93	24	0
				814.7	26697	22.91	24	0
		1 RB	2	831.5	26865	22.90	24	0
				848.3	27033	22.93	24	0
				814.7	26697	23.05	24	0
			5	831.5	26865	22.92	24	0
				848.3	27033	22.93	24	0
				814.7	26697	22.93	23	0-1
	QPSK		0	831.5	26865	22.96	23	0-1
				848.3	27033	22.90	23	0-1
				814.7	26697	22.98	23	0-1
		3 RB	2	831.5	26865	22.89	23	0-1
				848.3	27033	22.96	23	0-1
				814.7	26697	22.96	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1
			3	831.5	26865	22.92	23	0-1
				848.3	27033	22.89	23	0-1
				814.7	26697	22.05	23	0-1
		61	RB	831.5	26865	21.94	23	0-1
1.4				848.3	27033	21.88	23	0-1
				814.7	26697	22.26	23	0-1
			0	831.5	26865	22.16	23	0-1
				848.3	27033	22.05	23	
				814.7	26697	22.41	23	
		1 RB	2	831.5	26865	22.20	23	
				848.3	27033	22.36	23	
			_	814.7	26697	22.54	23	
			5	831.5	26865	22.50	23	
				848.3	27033	22.52	23	
	10 0 4 4			814.7	26697	22.17	23	
	16-QAM		0	831.5	26865	21.91	23	
				848.3	27033	21.83	23	
		2 DD	_	814.7	26697	22.02	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-
		3 RB	2	831.5	26865	22.01	23	
				848.3	27033	22.02	23	
			3	814.7	26697	22.02	23	
] ³	831.5	26865	22.14	23	
				848.3	27033	22.12	23	
		E	RB	814.7 831.5	26697 26865	20.98 21.01	22 22	
		Or	טו			20.94		
				848.3	27033	20.94	22	0-∠

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Page: 48 of 328

				FDD Band 30				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	2310	27710	23.44	24	0
		1 RB	25	2310	27710	23.26	24	0
			49	2310	27710	23.33	24	0
	QPSK		0	2310	27710	22.51	23	0-1
		25 RB	12	2310	27710	22.32	23	0-1
			25	2310	27710	22.38	23	0-1
10		50	RB	2310	27710	22.31	23	0-1
10			0	2310	27710	22.50	23	0-1
		1 RB	25	2310	27710	22.58	23	0-1
			49	2310	27710	22.57	23	0-1
	16-QAM		0	2310	27710	21.62	22	0-2
		25 RB	12	2310	27710	21.31	22	0-2
			25	2310	27710	21.26	22	0-2
		50	RB	2310	27710	21.41	22	0-2

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SGS Taiwan Ltd.



Page: 49 of 328

				FDD Band 30				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2307.5	27685	23.24	24	0
			0	2310	27710	23.32	24	0
				2312.5	27735	23.26	24	0
				2307.5	27685	23.28	24	0
		1 RB	12	2310	27710	23.20	24	0
				2312.5	27735	23.31	24	0
				2307.5	27685	23.25	24	0
			24	2310	27710	23.18	24	0
				2312.5	27735	23.12	24	0
				2307.5	27685	22.35	23	0-1
	QPSK		0	2310	27710	22.27	23	0-1
				2312.5	27735		23	0-1
				2307.5	27685	22.31	23	0-1
		12 RB	6	2310	27710	22.24	23	0-1
				2312.5	27735	22.20	23	0-1
				2307.5	27685	22.29	23	0-1
			13	2310	27710	22.30	23	0-1
				2312.5	27735	22.34	23	0-1
			•	2307.5	27685	22.46	23	0-1
		25	RB	2310	27710	22.21	23	0-1
_				2312.5	27735	22.17	23	0-1
5				2307.5	27685	22.55	23	0-1
			0	2310	27710	22.28	23	0-1
				13 2310 2312.5 2307.5 B 2310 2312.5 2307.5	27735	22.40	23	0-1
				2307.5	27685	22.69	23	0-1
		1 RB	12	2310	27710	22.37	23	0-1
ĺ				2312.5	27735	22.38	23	0-1
ĺ				2307.5	27685	22.37	23	0-1
			24	2310	27710	22.40	23	0-1
				2312.5	27735	22.21	23	0-1
				2307.5	27685	21.41	22	0-2
	16-QAM		0	2310	27710	21.35	22	0-2
				2312.5	27735	21.30	22	0-2
				2307.5	27685	21.47	22	0-2
	12 RB	12 RB	6	2310	27710	21.21	22	0-2
				2312.5	27735	21.25	22	0-2
			2307.5	27685	21.32	22	0-2	
		13	2310	27710	21.34	22	0-2	
			2312.5	27735	21.15	22	0-2	
				2307.5	27685	21.35	22	0-2
		25RE	RB	2310	27710	21.26	22	0-2
				2312.5	27735	21.28	22	0-2

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Page: 50 of 328

				FDD Band 38				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per
				2580	37850	23.09	(dBm)	
			0	2595	38000			-
			U	2610	38150			_
				2580	37850	1		-
		1 RB	50	2595	38000			-
		1112	00	2610	38150			
				2580	37850			-
			99	2595	38000	1		
				2610	38150			
				2580	37850			0-1
	QPSK		0	2595	38000			_
				2610	38150			0-1
				2580	37850		23	0-1
		50 RB	25	2595	38000		23	0-1
				2610	38150	22.08	23	
				2580	37850	22.04	23	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O
			50	2595	38000	22.01	23	
				2610	38150	22.11	23	0-1
				2580	37850	22.03	23	0-1
		100)RB	2595	38000	22.00	0-1	
20				2610	38150	22.14	23	0-1
20				2580	37850	22.02	23	0-1
			0	2595	38000	21.98	23	0-1
				2610	38150	22.06	23	0-1
				2580	37850	21.93	23	0-1
		1 RB	50	2595	38000	23.02 24 0 22.99 24 0 22.97 24 0 23.02 24 0 23.04 24 0 23.09 24 0 22.07 23 0- 21.99 23 0- 22.07 23 0- 22.03 23 0- 22.04 23 0- 22.08 23 0- 22.01 23 0- 22.02 3 0- 22.01 23 0- 22.02 23 0- 22.14 23 0- 22.14 23 0- 22.14 23 0- 22.198 23 0- 21.98 23 0- 21.99 23 0- 22.14 23 0- 22.19 23 0- 21.98 23 0-	0-1	
				2610	37850 22.04 23 38000 22.01 23 38150 22.11 23 37850 22.03 23 38000 22.00 23 38150 22.14 23 37850 22.02 23 38000 21.98 23 38150 22.06 23 37850 21.93 23 38000 21.93 23 38150 22.16 23 37850 21.94 23 38000 22.00 23	0-1		
				2580			23	0-1
			99	2595			_	
				2610				
				2580	37850			
	16-QAM		0	2595	38000			
				2610	38150			
				2580	37850			
		50 RB	25	2595	38000			
				2610	38150			0-2
			E0	2580	37850			0-2
			50	2595	38000			0-2
				2610	38150			0-2
		400	NDD	2580	37850			0-2
		100)RB	2595	38000			0-2
				2610	38150	21.18	22	0-2

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Page: 51 of 328

				FDD Band 38							
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				2577.5	37825	23.09	24	0			
			0	2595	38000	23.10	24	0			
				2612.5	38175	23.15	24	0			
				2577.5	37825	23.07	24	0			
		1 RB	36	2595	38000	23.06	24	0			
				2612.5	38175	23.12	24	0			
				2577.5	37825	23.03	24	0			
			74	2595	38000	23.07	24	0			
				2612.5	38175	23.17	24	0			
				2577.5	37825	22.08	23	0-1			
	QPSK		0	2595	38000	22.05	23	0-1			
				2612.5	38175	22.09	23	0-1			
				2577.5	37825	22.06	23	0-1			
		36 RB	18	2595	38000	22.03	23	0-1			
				2612.5	38175	22.13	23	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O			
				2577.5	37825	22.01	23	0-1			
			37	2595	38000	22.02	23	0-1			
				2612.5	38175	22.15	23	0-1			
				2577.5	37825	22.02	23	0-1			
		75	RB	2595	38000	22.03	23	0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-			
15				2612.5	38175	22.09	23	0-1			
15				2577.5	37825	22.00	23	0-1			
			0	2595	38000	21.94	23	0-1			
				2612.5	38175	22.01	23	0-1			
				2577.5	37825	21.98	23	0-1			
		1 RB	36	2595	38000	21.94	23	0-1			
				2612.5	38000 22.03 23 38175 22.09 23 37825 22.00 23 38000 21.94 23 38175 22.01 23 37825 21.98 23	0-1					
ĺ				2577.5	37825	21.93	23	0-1			
			74	2595	38000	21.97	23	0-1			
1				2612.5	38175	22.11	23	0-1			
				2577.5	37825	21.12	22	0-2			
	16-QAM		0	2595	38000	21.04	22	0-2			
				2612.5	38175	21.13	22	0-2			
				2577.5	37825	21.08	22	0-2			
		36 RB	18	2595	38000	21.07	22	0-2			
				2612.5	38175	21.15	22	0-2			
				2577.5	37825	21.06	22	0-2			
			37	2595	38000	21.06	22	0-2			
				2612.5	38175	21.18	22	0-2			
1				2577.5	37825	21.04	22	0-2			
	75R		RB	2595	38000	21.01	22				
				2612.5	38175	21.09	22	0-2			

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Page: 52 of 328

				FDD Band 38					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
				2575	37800	23.07	24	0	
			0	2595	38000	23.06	24	0	
				2615	38200	23.16	24	0	
				2575	37800	23.01	24	0	
		1 RB	25	2595	38000	23.02	24	0	
				2615	38200	23.14	24	0	
				2575	37800	23.00	24	0	
			49	2595	38000	23.08	24	0	
				2615	38200	23.16	24	0	
				2575	37800	22.12	23	0-1	
	QPSK		0	2595	38000	22.10	23	0-1	
				2615	38200	22.18	23	0-1	
				2575	37800	22.10	23	0-1	
		25 RB	12	2595	38000	22.07	23	0-1	
				2615	38200	22.20	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
				2575	37800	22.10	23		
			25	2595	38000	22.09	23		
				2615	38200	22.19	23	0-1	
				2575	37800	22.07	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-	
		50	RB	2595	38000	22.02	23	0-1	
10			T	2615	38200	22.12	23		
			0	2575	37800	22.05	23	0-1	
				2595	38000	21.98	23		
				2615	38200	22.09	23		
				2575	37800	22.01	23		
		1 RB	25	2595	38000	22.00	23		
				2615	38200	22.09	23	_	
				2575	37800	21.96	23		
			49	2595	38000	22.05	23	-	
				2615	38200	22.13	23		
	10.0014			2575	37800	21.15	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1	
	16-QAM		0	2595	38000	21.18	22		
				2615	38200	21.24	22	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1	
		OE DD	10	2575	37800	21.12	22		
		25 RB	12	2595	38000	21.16	22		
				2615	38200	21.24	22		
			25	2575	37800	21.11	22		
			25	2595	38000	21.18	22		
				2615	38200	21.31	22		
		ΕΛ	DR.	2575	37800 38000	21.05	22		
		50RB		2595 2615		21.06	22		
				2615	38200	21.10	22	U-Z	

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Page: 53 of 328

				FDD Band 38						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				2572.5	37775	22.98	24	0		
			0	2595	38000	22.98	24	0		
				2617.5	38225	23.11	24	0		
				2572.5	37775	22.92	24	0		
		1 RB	12	2595	38000	22.96	24	0		
				2617.5	38225	23.09	24	0		
				2572.5	37775	22.94	24	0		
			24	2595	38000	22.99	24	0		
				2617.5	38225	23.13	24	0		
				2572.5	37775	22.06	23	0-1		
	QPSK		0	2595	38000	22.07	23	0-1		
				2617.5	38225	22.17	23	0-1		
				2572.5	95 38000 22.06 23 7.5 38225 22.20 23	0-1				
		12 RB	6	2595	38000	22.06	23	0-1		
				2617.5	38225	22.20		0-1		
				2572.5	37775	22.05	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
			13	2595	38000	22.08	23			
				2617.5	38225	22.19	23	0-1		
				2572.5	37775	22.06	23	0-1		
		25	RB	2595	38000	22.07	23	0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1		
5				2617.5	38225	22.19	23	0-1		
				2572.5	37775	22.01	23	0-1		
			0	2595	38000	22.00	23	0-1		
				2617.5			23	0-1		
				2572.5	37775	22.01		0-1		
		1 RB	12	2595	38000	21.96				
				2617.5	38000 22.07 23 38225 22.19 23 37775 22.01 23 38000 22.00 23 38225 22.10 23 37775 22.01 23					
			_	2572.5						
			24	2595	38000	22.02	23			
				2617.5	38225	22.12	23			
				2572.5	37775	21.11	22			
	16-QAM		0	2595	38000	21.04	22			
				2617.5	38225	21.13	22			
				2572.5	37775	21.08	22			
		12 RB	6	2595	38000	21.03	22			
				2617.5	38225	21.13	22			
				2572.5	37775	21.07	22	0-2		
			13	2595	38000	21.08	22	0-2		
				2617.5	38225	21.22	22	0-2		
1				2572.5	37775	21.13	22	0-2		
		25	RB	2595	38000	21.09	22	0-2		
				2617.5	38225	21.24	22	0-2		

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SGS Taiwan Ltd.



Page: 54 of 328

	_				TD	D Band 41						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB				
				2506	39750	22.84	24	0				
				2549.5	40185	23.25	24	0				
			0	2593	40620	23.00	24	0				
				2636.5	41055	23.39						
				2680 2506	41490 39750	22.77 22.78						
				2549.5	40185	23.21						
		1 RB	50	2593	40620	22.94		24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23				
				2636.5	41055	23.27						
				2680	41490	22.66	24	0				
				2506	39750	22.89	24	0				
				2549.5	40185	23.21	Tolerance (dBm) Tolerance (dBm) 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 24 0 25 26 27 28 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 23 0 1 24 25 26 26 27 29 29 29 29 29 29 29 29 29					
			99	2593	40620	23.06						
				2636.5	41055	23.20						
				2680 2506	41490 39750	22.76 21.91						
				2549.5	40185	22.28						
	QPSK		0	2593	40620	21.98						
				2636.5	41055	22.35						
				2680	41490	21.75						
				2506	39750	21.88						
				2549.5	40185	22.25						
		50 RB	50 RB	50 RB	50 RB	50 RB	25	2593	40620	21.96		
									2636.5	41055	22.29	
				2680 2506	41490 39750	21.71 21.90						
				2549.5	40185	22.26						
			50	2593	40620	21.98						
				2636.5	41055	22.23						
			2680	41490	21.78		0-1					
			2506	39750	21.93	23	0-1					
			2549.5	40185	22.28		0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1					
	100)RB	2593	40620	21.99							
			2636.5	41055	22.30							
20				2680 2506	41490 39750	21.83 21.85						
				2549.5	40185	22.21						
			0	2593	40620	21.93						
				2636.5	41055	22.38						
				2680	41490	21.74	23	0-1				
				2506	39750	21.77						
				2549.5	40185	22.19						
		1 RB	50	2593	40620	21.90						
				2636.5	41055	22.27						
				2680 2506	41490 39750	21.63 21.89						
				2549.5	40185	22.18						
			99	2593	40620	22.03						
				2636.5	41055	22.17						
				2680	41490	21.77		0-1				
				2506	39750	20.83						
				2549.5	40185	21.23						
	16-QAM		0	2593	40620	20.95						
				2636.5	41055	21.31						
				2680 2506	41490 39750	20.73 20.81						
				2549.5	40185	21.23						
		50 RB	25	2593	40620	20.95						
				2636.5	41055	21.24						
				2680	41490	20.75						
				2506	39750	20.83						
				2549.5	40185	21.21						
			50	2593	40620	20.97						
				2636.5	41055	21.17						
				2680	41490	20.81						
				2506 2549.5	39750 40185	20.92 21.26						
		100	RB	2549.5	40620	20.97						
				2636.5	41055	21.27	22	0-2				
				2680	41490	20.76	22	0-2				

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SGS Taiwan Ltd.



Page: 55 of 328

					TD	D Band 41			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(d	
				2503.5	39725	22.89	24	0	
				2548.3	40173	23.26	24	0	
			0	2593	40620	23.01	24	0	
				2637.8	41068	23.33	24		
		36 RB 75RI		2682.5	41515	22.73	24		
				2503.5 2548.3	39725 40173	22.84			
		1 BB	36	2546.3	40620	23.27			
			00	2637.8	41068	23.30			
				2682.5	41515	22.73			
				2503.5	39725	22.89	24	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
				2548.3	40173	23.26	.884 24 0 .277 24 0 .00 24 0 .30 24 0 .373 24 0 .899 24 0 .899 24 0 .266 24 0 .011 24 0 .199 24 0 .877 24 0 .88 23 0-1 .88 23 0-1 .28 23 0-1 .98 23 0-1 .98 23 0-1 .98 23 0-1 .89 23 0-1 .89 23 0-1 .28 23 0-1 .32 23 0-1 .32 23 0-1 .32 23 0-1 .32 23 0-1 .99 23 0-1 .99		
			74	2593	40620	23.01			
				2637.8	41068	23.19			
				2682.5	41515	22.87		_	
				2503.5	39725	21.88			
	ODCK		0	2548.3	40173	22.28			
	QPSK		0	2593 2637.8	40620 41068	21.98 22.35			
				2637.8 2682.5	41068	22.35			
			—	2503.5	39725	21.76			
				2548.3	40173	22.28			
		36 RB	36 RB	18	2593	40620	22.00		0-1
				2637.8	41068	22.32			
				2682.5	41515	21.74	23	0-1	
				2503.5	39725	21.90	23	0-1	
				2548.3	40173	22.26	23	0-1	
			37	2593	40620	21.99		_	
				2637.8	41068	22.24			
			2682.5	41515	21.80				
			2503.5	39725	21.84				
	75	DD.	2548.3	40173	22.23		0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1		
	/5	ind	2593	40620	21.98				
			2637.8 2682.5	41068 41515	21.77				
15			1	2503.5	39725	21.82			
				2548.3	40173	22.17			
			0	2593	40620	21.87			
				2637.8	41068	22.28	23	0-1	
				2682.5	41515	21.61	23	0-1	
				2503.5	39725	21.77	23	0-1	
				2548.3	40173	22.18			
		1 RB	36	2593	40620	21.89			
				2637.8	41068	22.26			
				2682.5	41515	21.63			
				2503.5	39725	21.82			
			74	2548.3 2593	40173 40620	22.15 21.93			
			l '-	2637.8	41068	22.14			
				2682.5	41515	21.81			
				2503.5	39725	20.89	22		
				2548.3	40173	21.28	22		
	16-QAM		0	2593	40620	21.01	22		
				2637.8	41068	21.41	22		
				2682.5	41515	20.79	22		
				2503.5	39725	20.89	22		
				2548.3	40173	21.31	22	0-2	
		36 RB	18	2593	40620	21.01	22	0-2	
				2637.8	41068	21.36	22	0-2	
				2682.5	41515	20.77	22	0-2	
				2503.5	39725	20.93	22	0-2	
			37	2548.3 2593	40173 40620	21.27 21.02	22 22	0-2 0-2	
			3/	2637.8	41068	21.02	22	0-2	
				2682.5	41515	20.82	22	0-2	
			<u> </u>	2503.5	39725	20.82	22	0-2	
				2548.3	40173	21.26	22	0-2	
		75	RB	2593	40620	20.98	22	0-2	
		"	-	2637.8	41068	21.31	22	0-2	
	I	l		2682.5	41515	20.66	22	0-2	

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Page: 56 of 328

					TD	D Band 41						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB				
				2501	39700	22.85	24	0				
				2547	40160	23.21	24	0				
			0	2593	40620	23.02	24	0				
				2639	41080	23.38						
				2685 2501	41540 39700	22.72 22.78						
				2547	40160	23.19						
		1 RB	25	2593	40620	22.93						
				2639	41080	23.32	24	0				
				2685	41540	22.72	24	0				
				2501	39700	22.82		Ierance (dBm) MPH Allowed per 3GPP(dB)				
			40	2547	40160	23.20						
			49	2593 2639	40620 41080	22.94 23.14						
				2685	41540	22.83						
				2501	39700	21.90						
				2547	40160	22.29						
	QPSK		0	2593	40620	22.02	23	0-1				
				2639	41080	22.35	23	0-1				
			ļ	2685	41540	21.82						
				2501	39700	21.92						
		OF DD	10	2547	40160	22.27		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
		25 RB	12	2593 2639	40620 41080	22.01 22.34		_				
								2685	41540	21.86		
				2501	39700	21.88						
				2547	40160	22.28		_				
			25	2593	40620	22.02						
			2639	41080	22.26		0-1					
			2685	41540	21.89							
				2501	39700	21.89		_				
		E0	RB	2547	40160							
		50	no	2593 2639	41080	22.31						
				2685	41540	21.80						
10				2501	39700	21.85						
				2547	40160	22.19	23	0-1				
			0	2593	40620	21.93		0-1				
				2639	41080	22.32						
				2685	41540	21.69		_				
				2501	39700	21.82		_				
		1 RB	25	2547 2593	40160 40620	22.17 21.90						
		1110	23	2639	41080	22.25						
				2685	41540	21.74						
				2501	39700	21.79						
				2547	40160	22.18						
			49	2593	40620	21.93		_				
				2639	41080	22.16		_				
				2685	41540	21.81						
				2501	39700	20.96						
	16-QAM		0	2547 2593	40160 40620	21.33 21.07						
	10-QAIVI		"	2639	41080	21.07						
				2685	41540	20.85						
				2501	39700	20.97						
				2547	40160	21.33						
		25 RB	12	2593	40620	21.05						
				2639	41080	21.38						
				2685	41540	20.89						
				2501	39700	20.95						
			25	2547 2593	40160 40620	21.33 21.12						
			25	2639	41080	21.12						
				2685	41540	20.92						
			•	2501	39700	20.84						
				2547	40160	21.18						
		50	RB	2593	40620	21.01	22	0-2				
			2639	41080	21.26							
	1			2685	41540	20.83	22	0-2				

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Page: 57 of 328

					TD	D Band 41				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB		
				2498.5	39675	22.81		0		
				2547.8	40148	23.15	24	0		
			0	2593	40620	22.93	24	0		
				2640.3	41093	23.29				
				2687.5	41565		Tolerance (dBm) Tolerance (dBm) Wirth Allowed per Ser 22.81			
			1 RB 12 24 0 13 25RB 0 1 RB 12 24 0	2498.5 2547.8	39675 40148					
		1 BB	12	2593	40620			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				2640.3	41093					
				2687.5	41565	22.69	ed power (dBm) Target Power + Max. Tolerance (dBm) MPR Allowed per 3GPP(d 22.81 24 0 23.15 24 0 22.93 24 0 22.77 24 0 22.77 24 0 23.13 24 0 22.90 24 0 23.17 24 0 22.99 24 0 22.99 24 0 22.72 24 0 22.72 24 0 23.14 24 0 22.72 24 0 23.21 2 0 22.77 24 0 22.77 24 0 22.77 24 0 22.27 24 0 22.27 24 0 22.27 23 0-1 22.28 23 0-1 22.29 23 0-1 22.34			
				2498.5	39675	22.72		0		
				2547.8	40148					
			24	2593	40620					
				2640.3	41093					
				2687.5 2498.5	41565 39675					
				2547.8	40148			_		
	QPSK		0	2593	40620					
				2640.3	41093					
				2687.5	41565			0-1		
				2498.5	39675	21.83	23	0-1		
				2547.8	40148			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		12 RB	6	2593	40620					
				2640.3	41093					
						2687.5 2498.5	41565 39675			
			13	2547.8	40148					
				2593	40620					
				2640.3	41093					
				2687.5	41565	21.87	23	0-1		
				2498.5	39675	21.83		0-1		
			2547.8	40148						
		25	irb	2593	40620					
				2640.3	41093					
5				2687.5 2498.5	41565 39675					
				2547.8	40148					
			0	2593	40620					
				2640.3	41093	22.25	23	23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1		
				2687.5	41565	21.75				
				2498.5	39675					
		4.00	40	2547.8	40148					
		I HB	12	2593 2640.3	40620 41093					
				2687.5	41565					
				2498.5	39675					
				2547.8	40148					
			24	2593	40620					
				2640.3	41093	22.20		0-1		
				2687.5	41565					
				2498.5	39675					
	40.0414			2547.8	40148					
	16-QAM		0	2593	40620					
				2640.3 2687.5	41093 41565					
				2498.5	39675					
				2547.8	40148					
		12 RB	6	2593	40620					
				2640.3	41093	21.20	22	0-2		
				2687.5	41565					
				2498.5	39675					
			10	2547.8	40148					
			13	2593	40620					
				2640.3 2687.5	41093 41565					
			L	2498.5	39675					
				2547.8	40148					
		25	iRB	2593	40620					
				2640.3	41093					
	1			2687.5	41565					

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Page: 58 of 328

				FDD Band 66						
				Do Dana 00			Torast			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1720	132072	23.25	24	0		
			0	1745	132322	23.22	24	0		
				1770	132572	23.49	24	0		
				1720	132072	22.93	24	0		
		1 RB	50	1745	132322	23.07	24	0		
				1770	132572	23.34	24	0		
				1720	132072	23.25	24	0		
			99	1745	132322	23.50	24	0		
				1770	132572	23.29	24	0		
				1720	132072	22.18	23	0-1		
	QPSK		0	1745	132322	22.15	23	0-1		
					132572	22.35	23	0-1		
					132072	22.14	23	0-1		
		50 RB	25		132322	22.15	23	_		
					132572	22.36	23			
					132072	22.19	23	0 0 0 0 0 0 0 0 0 0-1 0-1		
			50		132322	22.38	23			
					132572	22.37	23			
					132072	22.36	23	_		
		100)KB		132322	22.37	23	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1		
20					132572	22.54	23	_		
			0		132072	22.59	23	_		
					132322	21.75	23			
					132572	22.60	23			
		1 RB	50		132072	22.47	23	_		
		IND	50		132322	22.59	23			
					132572 132072	22.88 22.94	23 23			
			99		132322	22.62	23	_		
			33		132572	22.82	23			
					132072	21.22	22			
	16-QAM		0		132322	21.06	22			
	10 0,		ŭ		132572	21.25	22			
					132072	20.93	22			
		50 RB	25		132322	21.11	22			
					132572	21.15	22			
					132072	21.04	22			
			50		132322	21.37	22			
					132572	21.28	22			
					132072	21.27	22	0-2		
		100	99 1745 1770 1720 0 1745 1770 1720 25 1745 1770 1720 50 1745 1770 1720 0RB 1745 1770		132322	21.37	22	0-2		
					132572	21.52	22	0-2		

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Page: 59 of 328

				FDD Band 66					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per 3GPP(dB)	
				1717.5	132047	23.14	(dBm) 24	0	
			0	1717.5	132322	23.14	24	ł — — — — — — — — — — — — — — — — — — —	
			O	1772.5	132597	23.21	24		
				1717.5	132047	23.20	24		
		1 RB	36	1745	132322	23.00	24		
				1772.5	132597	23.12	24		
				1717.5	132047	23.18	24		
			74	1745	132322	23.36	24		
				1772.5	132597	23.45	24	ł	
				1717.5	132047	22.15	23		
	QPSK		0	1745	132322	22.03	23	0-1	
				1772.5	132597	22.29	23	0-1	
				1717.5	132047	22.13	23	0-1	
		36 RB	18	1745	132322	22.10	23	0-1	
				1772.5	132597	22.38	23	0-1	
				1717.5	132047	22.14	23	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1	
			37	1745	132322	22.27	23		
				1772.5	132597	22.31	23	0-1	
				1717.5	132047	22.18	23	0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1	
		75	RB	1745	132322	22.23	23	0-1	
15				1772.5	132597	22.44	23	0-1	
13				1717.5	132047	22.51	23	0-1	
			0	1745	132322	22.34	23	0-1	
				1772.5	132597	22.62	23	0-1	
				1717.5	132047	22.58	23	0-1	
		1 RB	36	1745	132322	22.11	23	0-1	
				1772.5	132597	22.04	23	0-1	
				1717.5	132047	22.26	23	0-1	
			74	1745	132322	22.81	23	0-1	
				1772.5	132597	22.86	23	0-1	
				1717.5	132047	21.06	22		
	16-QAM		0	1745	132322	21.03	22	0-2	
				1772.5	132597	21.15	22		
				1717.5	132047	20.94	22	ł	
		36 RB	18	1745	132322	21.01	22		
				1772.5	132597	21.27	22	0-2	
				1717.5	132047	21.01	22	0-2	
			37	1745	132322	21.27	22	0-2	
				1772.5	132597	21.25	22	0-2	
			DD	1717.5	132047	21.23	22	0-2	
		75	RB	1745	132322	21.23	22	0-2	
				1772.5	132597	21.46	22	0-2	

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Page: 60 of 328

				FDD Band 66						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1715	132022	23.23	24	0		
			0	1745	132322	23.12	24	0		
				1775	132622	23.20	24	0		
				1715	132022	23.07	24	0		
		1 RB	25	1745	132322	23.13	24	0		
				1775	132622	22.95	24	0		
				1715	132022	22.92	24	0		
			49	1745	132322	23.35	24	0		
				1775	132622	23.15	24	0		
				1715	132022	21.98	23	0-1		
	QPSK		0	1745	132322	21.97	23	0-1		
				1775	132622	22.13	23	0-1		
				1715	132022	22.01	23	0-1		
		25 RB	12	1745	132322	22.01	23	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1775	132622	22.18	23			
				1715	132022	22.07	23			
			25	1745	132322	22.17	23			
				1775	132622	22.24	23	0-1		
				1715	132022	22.10	23	0-1		
		50	RB	1745	132322	22.16	23	0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-		
10				1775	132622	22.31		0-1		
. •			0	1715	132022	22.46				
				1745	132322	22.14				
				1775	132622			0-1		
				1715	132022	22.70				
		1 RB	25	1745	132322	22.21		0-1		
				1775	132622	22.29	23			
				1715	132022	Conducted power (dBm) Max. Tolerance (dBm) Allowed per 3GPP(dB) 23.23 24 0 23.12 24 0 23.20 24 0 23.13 24 0 23.13 24 0 22.95 24 0 22.92 24 0 23.35 24 0 23.15 24 0 21.98 23 0-1 21.97 23 0-1 22.13 23 0-1 22.01 23 0-1 22.01 23 0-1 22.18 23 0-1 22.19 23 0-1 22.10 23 0-1 22.17 23 0-1 22.18 23 0-1 22.19 23 0-1 22.10 23 0-1 22.10 23 0-1 22.10 23 0-1 <t< td=""></t<>				
			49	1745	132322			Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1775	132622					
	10.044			1715	132022					
	16-QAM		0	1745	132322					
				1775	132622			0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1		
		05.00	10	1715	132022					
		25 RB	12	1745	132322					
				1775	132622					
			O.E	1715	132022	.				
			25	1745	132322					
				1775	132622					
			.DD	1715	132022					
		50	RB	1745	132322	.				
				1775	132622	21.30	22	0-2		

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Page: 61 of 328

	FDD Band 66												
				. DD Dana 00			Toract						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)					
				1712.5	131997	22.91	24	0					
			0	1745	132322	22.98	24	0					
				1777.5	132647	23.36	24	0					
				1712.5	131997	23.24	24	0					
		1 RB	12	1745	132322	22.89	24	0					
				1777.5	132647	23.29	24	0					
				1712.5	131997	23.04	24	0					
			24	1745	132322	23.14	24	0					
				1777.5	132647	23.15	24	0					
				1712.5	131997	21.93	23	0-1					
	QPSK		0	1745	132322	21.88	23	0-1					
				1777.5	132647	22.15	23	0-1					
				1712.5	131997	21.96	23	0-1					
		12 RB	6	1745	132322	21.95	23						
				1777.5	132647	22.07	23						
				1712.5	131997	22.05	23	-					
			13	1745	132322	22.04	23						
				1777.5	132647	22.09	23						
		0.5	D D	1712.5	131997	22.11	23						
		25	RB	1745	132322	22.07	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1					
5			1	1777.5	132647	22.25	23						
			0	1712.5	131997	22.71	23						
			U	1745	132322	21.77	23						
				1777.5	132647	22.93	23						
		1 RB	12	1712.5 1745	131997 132322	22.61 22.28	23						
		TND	12	1777.5	132647	22.26	23 23	ł					
				1777.5	131997	21.93	23						
			24	1712.5	132322	22.33	23						
			24	1777.5	132647	22.61	23						
				1717.5	131997	20.87	22						
	16-QAM		0	1745	132322	20.61	22						
				1777.5	132647	20.91	22	+					
				1717.5	131997	20.93	22						
		12 RB	6	1712.3	132322	20.89	22	ł					
		·=·.=		1777.5	132647	20.85	22						
				1712.5	131997	20.94	22						
			13	1745	132322	21.00	22						
				1777.5	132647	21.08	22						
				1712.5	131997	20.96	22	0-2					
		25	RB	1745	132322	20.89	22	0-2					
		2511		1777.5	132647	21.10	22	0-2					

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Page: 62 of 328

				FDD Band 66						
				Frequency		Conducted	Target Power +	MPR		
BW(Mhz)	Modulation	RB Size	RB Offset	(MHz)	Channel	power (dBm)	Max. Tolerance (dBm)	Allowed per 3GPP(dB)		
				1711.5	131987	22.81	24	0		
			0	1745	132322	22.78	24	0		
				1778.5	132657	22.85	24	0		
				1711.5	131987	22.84	24	0		
		1 RB	7	1745	132322	23.29	24	0		
				1778.5	132657	23.34	24	0		
				1711.5	131987	22.92	24			
			14	1745	132322	23.24	24			
				1778.5	132657	23.45	24			
	055		_	1711.5	131987	21.75	23			
	QPSK		0	1745	132322	22.12	23			
				1778.5	132657	22.16	23	•		
		0.00		1711.5	131987	21.80	23			
		8 RB	4	1745	132322	21.80	23	_		
				1778.5	132657	22.12	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1		
			7	1711.5	131987	21.86	23			
			7	1745	132322	22.00	23			
				1778.5	132657	22.07	23	_		
		15	DD	1711.5	131987	22.03	23			
		15	RB	1745	132322	22.01	23	0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-		
3				1778.5	132657	22.32	23			
			0	1711.5 1745	131987 132322	22.41 22.38	23 23	_		
			U	1745	132657	22.36	23			
				1776.5	131987	21.47	23			
		1 RB	12	1711.5	132322	22.31	23			
		1110	12	1778.5	132657	22.59	23			
				1770.5	131987	22.27	23			
			24	1745	132322	22.41	23	_		
				1778.5	132657	22.92	23			
				1711.5	131987	20.78	22			
	16-QAM		0	1745	132322	20.79	22			
			-	1778.5	132657	20.98	22	-		
				1711.5	131987	20.42	22			
		12 RB	6	1745	132322	20.69	22	•		
				1778.5	132657	21.14	22			
				1711.5	131987	20.99	22			
			13	1745	132322	20.97	22			
				1778.5	132657	21.13	22	0-2		
				1711.5	131987	20.86	22	0-2		
	2	25	RB	1745	132322	20.97	22	0-2		
		2011		1778.5	132657	21.17	22	0-2		

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Page: 63 of 328

FDD Band 66												
				- DD Dana 00			Torest					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1710.7	131979	23.02	24	0				
			0	1745	132322	23.30	24	0				
				1779.3	132665	23.21	24	0				
				1710.7	131979	23.04	24	0				
		1 RB	2	1745	132322	23.29	24	0				
				1779.3	132665	23.60	24	0				
				1710.7	131979	23.18	24	0				
			5	1745	132322	23.27	24	0				
				1779.3	132665	22.90	24	0				
				1710.7	131979	22.94	23	0				
	QPSK		0	1745	132322	22.75	23	0				
				1779.3	132665	22.98	23	0				
				1710.7	131979	22.88	23	0				
		3 RB	2	1745	132322	22.61	23					
				1779.3	132665	22.91	23					
			_	1710.7	131979	22.52	23					
			3	1745	132322	22.94	23					
				1779.3	132665	22.99	23					
		0.5	20	1710.7	131979	22.07	23					
		61	RB	1745	132322	22.03	23	_				
1.4				1779.3	132665	22.23	23	_				
			0	1710.7	131979	22.65	23	_				
			U	1745	132322	22.39	23					
				1779.3	132665	22.89	23					
		1 RB	2	1710.7 1745	131979 132322	22.41	23 23	_				
		IND	2			21.83						
				1779.3 1710.7	132665 131979	22.70 22.82	23 23					
			5	1710.7	132322	22.18	23	_				
			J	1779.3	132665	22.66	23					
				1710.7	131979	21.82	23					
	16-QAM		0	1710.7	132322	22.08	23					
				1779.3	132665	22.06	23					
				1710.7	131979	22.10	23					
		3 RB	2	1745	132322	22.33	23	0 0 0 0 0 0 0 0				
			_	1779.3	132665	22.24	23					
				1710.7	131979	21.97	23					
			3	1745	132322	22.20	23					
			-	1779.3	132665	22.37	23					
				1710.7	131979	20.82	22					
		6F	RB	1745	132322	20.91	22					
				1779.3	132665	21.03	22					

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SGS Taiwan Ltd.



Page: 64 of 328

LTE FDD Band 2 / Band 4 / Band 5 / Band7 / Band 12 / Band 13 / Band 17 / Band 26 / Band 30 / Band 38 / Band 41 / Band 66 power table (Reduced power):

<u> 26 / Bar</u>	10 30 / E	sand 38	/ Band 4	41 / Band	a bb pov	wer table	(Keauc	ea powe
				FDD Band 2				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1860	18700	16.96	17	0
			0	1880	18900	16.52	17	0
				1900	19100	16.33	17	0
				1860	18700	16.52	17	0
		1 RB	50	1880	18900	16.45	17	0
				1900	19100	16.12	17	0
				1860	18700	16.55	17	0
			99	1880	18900	16.46	17	0
				1900	19100	16.42	17	0
				1860	18700	16.68	17	0
	QPSK		0	1880	18900	16.57	17	0
				1900	19100	16.21	17	0
				1860	18700	16.44	17	0
		50 RB	25	1880	18900	16.53	17	0
				1900	19100	16.12	17	0
				1860	18700	16.50	17	MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			50	1880	18900	16.54	17	0
				1900	19100	16.35	17	0
				1860	18700	16.66	17	0
		100	ORB	1880	18900	16.66	17	0
20				1900	19100	16.42	17	0
20				1860	18700	16.92	17	0
			0	1880	18900	16.64	17	0
				1900	19100	16.68	17	0
				1860	18700	16.65	17	0
		1 RB	50	1880	18900	16.72	17	0
				1900	19100	16.55	17	0
İ				1860	18700	16.85	17	0
			99	1880	18900	16.93	17	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O
				1900	19100	16.63	17	0
				1860	18700	16.72	17	0
	16-QAM		0	1880	18900	16.62	17	0
				1900	19100	16.30	17	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1860	18700	16.59	17	0
		50 RB	25	1880	18900	16.58	17	0
				1900	19100	16.27	17	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1860	18700	16.50	17	0
			50	1880	18900	16.59	17	0
				1900	19100	16.37	17	0
				1860	18700	16.67	17	0
		100RB		1880	18900	16.68	17	0
				1900	19100	16.35	17	0

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Page: 65 of 328

				FDD Band 2						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1857.5	18675	16.66	17	0		
			0	1880	18900	16.49	17	0		
				1902.5	19125	16.17	17	0		
				1857.5	18675	16.55	17	0		
		1 RB	36	1880	18900	16.59	17	0		
				1902.5	19125	16.14	17	0		
				1857.5	18675	16.38	17	0		
			74	1880	18900	16.51	17	0		
				1902.5	19125	16.39	17	0		
				1857.5	18675	16.70	17	0		
	QPSK		0	1880	18900	16.58	17	0		
				1902.5	19125	16.13	17	0		
				1857.5	18675	16.66	17	0		
		36 RB	18	1880	18900	16.60	17	0		
				1902.5	19125	16.19	17	0		
				1857.5	18675	16.49	17	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
			37	1880	18900	16.52	17	0		
				1902.5	19125	16.32	17	0		
				1857.5	18675	16.73	17	0		
		75	RB	1880	18900	16.58	17	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
15				1902.5	19125	16.32	17	0		
				1857.5	18675	16.94	17	0		
			0	1880	18900	16.95	17	0		
				1902.5	19125	16.50	17	0		
				1857.5	18675	16.72	17	0		
		1 RB	36	1880	18900	16.82	17	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1902.5	19125	16.63	17			
				1857.5	18675	16.89	17	_		
			74	1880	18900	16.90	17			
				1902.5	19125	16.60	17			
	40.0		_	1857.5	18675	16.78	17			
	16-QAM		0	1880	18900	16.65	17	-		
				1902.5	19125	16.20	17			
		00.55	4.5	1857.5	18675	16.71	17			
		36 RB	18	1880	18900	16.74	17			
				1902.5	19125	16.31	17			
			07	1857.5	18675	16.55	17			
			37	1880	18900	16.59	17			
				1902.5	19125	16.43	17			
		 -	DD	1857.5	18675	16.71	17			
	75R		KR	1880	18900	16.61	17			
				1902.5	19125	16.39	17	0		

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Page: 66 of 328

				FDD Band 2						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1855	18650	16.95	17	0		
			0	1880	18900	16.63	17	0		
				1905	19150	16.55	17	0		
				1855	18650	16.75	17	0		
		1 RB	25	1880	18900	16.45	17	0		
				1905	19150	16.18	17	0		
				1855	18650	16.56	17	0		
			49	1880	18900	16.53	17	0		
				1905	19150	16.43	17	0		
				1855	18650	16.77	17	0		
	QPSK		0	1880	18900	16.64	17	0		
				1905	19150	16.14	17	0		
				1855	18650	16.68	17	0		
		25 RB	12	1880	18900	16.58	17	0		
				1905	19150	16.21	17	0		
				1855	18650	16.70	17	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
			25	1880	18900	16.51	17	0		
				1905	19150	16.42	17	0		
				1855	18650	16.66	17	0		
		50	RB	1880	18900	16.55	17	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
10				1905	19150	16.30	17	0		
			1855 18650 16.91 17 0 1880 18900 16.95 17							
			0	1880	18900	16.95		Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O		
				1905	19150	16.16	17			
				1855	18650	16.87	17			
		1 RB	25	1880	18900	16.87	17			
				1905	19150	16.36	17			
			4.5	1855	18650	16.80	17			
			49	1880	18900	16.71	17			
				1905	19150	16.80	17			
	10.0414		_	1855	18650	16.84	17			
	16-QAM		0	1880	18900	16.72	17			
				1905	19150	16.19	17			
		05.55	40	1855	18650	16.75	17			
		25 RB	12	1880	18900	16.60	17	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1905	19150	16.27	17			
			0.5	1855	18650	16.74	17			
			25	1880	18900	16.59	17			
				1905	19150	16.42	17			
		F.	DD	1855	18650	16.73	17			
		50R	ΠĎ	1880	18900	16.57	17			
				1905	19150	16.35	17	U		

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Page: 67 of 328

				FDD Band 2				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted	Target Power + Max.	MPR Allowed per
` ′				(1011 12)		power (dBm)	Tolerance (dBm)	3GPP(dB)
				1852.5	18625	16.70	17	0
			0	1880	18900	16.53	17	0
				1907.5	19175	16.28	17	0
				1852.5	18625	16.70	17	0
		1 RB	12	1880	18900	16.50	17	0
				1907.5	19175	16.30	17	0
				1852.5	18625	16.58	17	0
			24	1880	18900	16.42	17	0
				1907.5	19175	16.46	17	0
	ODOK		0	1852.5	18625	16.69	17	0
	QPSK		0	1880	18900	16.52	17	0
				1907.5	19175	16.23	17	0
		10 DD	6	1852.5	18625	16.66	17	0
		12 RB	6	1880	18900	16.51	17	0
				1907.5	19175	16.41	17	0
			10	1852.5	18625	16.63	17	0
			13	1880	18900	16.51	17	0
				1907.5	19175	16.31	17 17	0
		25	RB	1852.5	18625	16.67	17	0
		23	пb	1880 1907.5	18900 19175	16.49 16.28	17	0
5				1852.5	18625	16.26	17	0
			0	1880	18900	16.90	17	0
			Ü	1907.5	19175	16.50	17	0
				1852.5	18625	16.91	17	0
		1 RB	12	1880	18900	16.72	17	0
				1907.5	19175	16.48	17	0
				1852.5	18625	16.64	17	0
			24	1880	18900	16.59	17	0
				1907.5	19175	16.52	17	0
				1852.5	18625	16.74	17	0
	16-QAM		0	1880	18900	16.65	17	0
				1907.5	19175	16.27	17	0
				1852.5	18625	16.76	17	0
		12 RB	6	1880	18900	16.59	17	0
				1907.5	19175	16.22	17	0
				1852.5	18625	16.73	17	0
			13	1880	18900	16.52	17	0
				1907.5	19175	16.43	17	0
			-	1852.5	18625	16.74	17	0
		25	RB	1880	18900	16.49	17	0
		230		1907.5	19175	16.33	17	0

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Page: 68 of 328

				FDD Band 2						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1851.5	18615	16.79	17	0		
			0	1880	18900	16.39	17	0		
				1908.5	19185	16.16	17	0		
				1851.5	18615	16.55	17	0		
		1 RB	7	1880	18900	16.57	17	0		
				1908.5	19185	16.39	17	0		
				1851.5	18615	16.72	17	0		
			14	1880	18900	16.52	17	0		
				1908.5	19185	16.27	17	0		
				1851.5	18615	16.67	17	0		
	QPSK		0	1880	18900	16.52	17	0		
				1908.5	19185	16.41	17	0		
				1851.5	18615	16.68	17	0		
		8 RB	4	1880	18900	16.50	17	0		
				1908.5	19185	16.32	17	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1851.5	18615	16.67	17			
			7	1880	18900	16.52	17	0		
				1908.5	19185	16.37	17	0		
				1851.5	18615	16.70	17	0		
		15	RB	1880	18900	16.49	17	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
3				1908.5	19185	16.44	17	0		
			1851.5 18615 16.95 17 0 1880 18900 16.50 17			0				
			0	1880	18900	16.50	17	0		
				1908.5	19185	16.38	17	0		
				1851.5	18615	16.68	17	0		
		1 RB	7	1880	18900	16.72	17			
				1908.5	19185	16.23	17			
				1851.5	18615	16.82	17			
			14	1880	18900	16.93	17			
				1908.5	19185	16.57	17			
	40.0414			1851.5	18615	16.67	17			
	16-QAM		0	1880	18900	16.57	17			
				1908.5	19185	16.45	17			
		0.00	_	1851.5	18615	16.80	17			
		8 RB	4	1880	18900	16.58	17			
				1908.5	19185	16.46	17			
			7	1851.5	18615	16.74	17			
			7	1880	18900	16.46	17			
				1908.5	19185	16.40	17			
		4-	DD	1851.5	18615	16.66	17			
		15	RB	1880	18900	16.52	17			
				1908.5	19185	16.41	17	U		

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Page: 69 of 328

	FDD Band 2												
				1 DD Danu 2			Tarret						
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	18607	16.73	17	0					
			0	1880	18900	16.54	17	0					
				1909.3	19193	16.31	17	0					
				1850.7	18607	16.67	17	0					
		1 RB	2	1880	18900	16.57	17	0					
				1909.3	19193	16.36	17	0					
				1850.7	18607	16.60	17	0					
			5	1880	18900	16.51	17	0					
				1909.3	19193	16.38	17	0					
				1850.7	18607	16.76	17	0					
	QPSK		0	1880	18900	16.56	17	0					
				1909.3	19193	16.39	17	0					
				1850.7	18607	16.68	17	0					
		3 RB	2	1880	18900	16.53	17	0					
				1909.3	19193	16.39	17	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	16.69	17						
			3	1880	18900	16.53	17						
				1909.3	19193	16.35	17	0					
				1850.7	18607	16.67	17	0					
		6F	RB	1880	18900	16.53	17	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
1.4				1909.3	19193	16.37	17	0					
				17	0								
			0	1880	18900	16.91	17	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O					
				1909.3	19193	16.59	17	0					
				1850.7	18607	16.93	17	0					
		1 RB	2	1880	18900	16.92	17	0					
				1909.3	19193	16.64	17						
			_	1850.7	18607	16.92	17						
			5	1880	18900	16.86	17						
				1909.3	19193	16.88	17						
	40.0		_	1850.7	18607	16.92	17						
	16-QAM		0	1880	18900	16.49	17	_					
				1909.3	19193	16.49	17	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
		0.55		1850.7	18607	16.85	17						
		3 RB	2	1880	18900	16.30	17	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
				1909.3	19193	16.68	17						
				1850.7	18607	16.77	17						
			3	1880	18900	16.75	17						
				1909.3	19193	16.49	17						
		_ - -	20	1850.7	18607	16.86	17						
	6RI		KB	1880	18900	16.59	17						
				1909.3	19193	16.41	17	0					

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Page: 70 of 328

FDD Band 4												
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1720	20050	17.29	17.5	0				
			0	1732.5	20175	17.46	17.5	0				
				1745	20300	17.27	17.5	0				
				1720	20050	17.15	17.5	0				
		1 RB	50	1732.5	20175	16.98	17.5	0				
				1745	20300	17.09	17.5	0				
				1720	20050	17.12	17.5	0				
			99	1732.5	20175	16.91	17.5	0				
				1745	20300	17.27	17.5	0				
				1720	20050	17.17	17.5	0				
	QPSK		0	1732.5	20175	17.11	17.5	0				
				1745	20300	16.92	17.5	0				
				1720	20050	17.16	17.5	0				
		50RB	25	1732.5	20175	17.01	17.5	0				
				1745	20300	17.12	17.5	0				
				1720	20050	17.14	17.5	0				
			50	1732.5	20175	16.97	17.5					
				1745	20300	17.29	17.5					
				1720	20050	17.35	17.5					
		100)RB	1732.5	20175	17.14	17.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
20			1	1745	20300	17.32	17.5					
				1720	20050	17.35	17.5	_				
			0	1732.5	20175	17.38	17.5	_				
				1745	20300	17.33	17.5					
				1720	20050	17.36	17.5					
		1 RB	50	1732.5	20175	17.38	17.5					
				1745	20300	17.41	17.5					
			00	1720	20050	17.41	17.5	_				
			99	1732.5	20175	17.42	17.5					
				1745	20300	17.42 17.23	17.5					
	16-QAM		0	1720	20050		17.5					
	10-QAIVI		U	1732.5 1745	20175 20300	17.17 17.03	17.5 17.5	_				
								Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
		50RB	25	1720 1732.5	20050 20175	17.25 17.04	17.5 17.5					
		JUND	23	1732.5	20175	17.04	17.5					
				1745	20050	17.20	17.5					
			50	1732.5	20030	16.93	17.5					
				1732.5	20300	17.35	17.5					
				1743	20050	17.33	17.5					
		100)RB	1732.5	20175	17.25	17.5					
	100R		1732.3	20300	17.15	17.5						

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Page: 71 of 328

				FDD Band 4						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1717.5	20025	16.90	17.5	0		
			0	1732.5	20175	17.21	17.5	0		
				1747.5	20325	16.86	17.5	0		
				1717.5	20025	17.03	17.5	0		
		1 RB	36	1732.5	20175	17.09	17.5	0		
				1747.5	20325	17.10	17.5	0		
				1717.5	20025	17.06	17.5	0		
			74	1732.5	20175	16.91	17.5	0		
				1747.5	20325	17.26	17.5	0		
				1717.5	20025	17.16	17.5	0		
	QPSK		0	1732.5	20175	17.06	17.5	0		
				1747.5	20325	16.98	17.5	0		
				1717.5	20025	17.21	17.5	0		
		36RB	18	1732.5	20175	17.06	17.5	0		
				1747.5	20325	17.22	17.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1717.5	20025	17.13	17.5			
			37	1732.5	20175	16.95	17.5	0		
				1747.5	20325	17.27	17.5	0		
				1717.5	20025	17.15	17.5	0		
		75	RB	1732.5	20175	17.09	17.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
15				1747.5	20325	17.28	17.5			
				17.5						
			0	1732.5	20175	17.45	17.5			
				1747.5	20325	16.92	17.5			
				1717.5	20025	17.37	17.5			
		1 RB	36	1732.5	20175	17.45	17.5	ł		
				1747.5	20325	17.08	17.5			
				1717.5	20025	17.45	17.5			
			74	1732.5	20175	17.41	17.5			
				1747.5	20325	17.38	17.5	ł		
	40.0414		0	1717.5	20025	17.25	17.5			
	16-QAM		0	1732.5	20175	17.16	17.5			
				1747.5	20325	17.05	17.5			
		2600	10	1717.5	20025	17.27	17.5			
		36RB	18	1732.5	20175	17.01	17.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				1747.5	20325	17.31	17.5			
			37	1717.5	20025	17.18	17.5			
			31	1732.5	20175	16.99	17.5			
				1747.5 1717.5	20325 20025	17.35 17.28	17.5 17.5			
		75	RR	1717.5	20025	17.28	17.5			
		75Ri	ווט			1				
				1747.5	20325	17.31	17.5	0		

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Page: 72 of 328

				FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1715	20000	17.09	17.5	0				
			0	1732.5	20175	17.07	17.5	0				
				1750	20350	17.02	17.5	0				
				1715	20000	17.11	17.5	0				
		1 RB	25	1732.5	20175	16.94	17.5	0				
				1750	20350	17.32	17.5	0				
				1715	20000	17.22	17.5	0				
			49	1732.5	20175	16.94	17.5	0				
				1750	20350	17.37	17.5	0				
				1715	20000	17.14	17.5	0				
	QPSK		0	1732.5	20175	17.15	17.5	0				
				1750	20350	17.26	17.5	0				
				1715	20000	17.21	17.5	0				
		25RB	12	1732.5	20175	17.09	17.5	0				
				1750	20350	17.35	17.5	0				
				1715	20000	17.14	17.5	0				
			25	1732.5	20175	17.02	17.5	0				
				1750	20350	17.34	17.5	0				
				1715	20000	17.12	17.5	0				
		50	RB	1732.5	20175	17.04	17.5					
10				1750	20350	17.31	17.5	0 0 0				
				1715	20000	17.06	17.5	_				
			0	1732.5	20175	17.39	17.5					
				1750	20350	17.39	17.5					
				1715	20000	17.36	17.5	_				
		1 RB	25	1732.5	20175	17.45	17.5					
				1750	20350	17.33	17.5					
				1715	20000	17.38	17.5					
			49	1732.5	20175	17.38	17.5					
				1750	20350	17.44	17.5					
	40.0414			1715	20000	17.19	17.5					
	16-QAM		0	1732.5	20175	17.12	17.5					
				1750	20350	17.33	17.5					
		05.00	40	1715	20000	17.26	17.5					
		25RB	12	1732.5	20175	17.15	17.5					
				1750	20350	17.30	17.5					
			0.5	1715	20000	17.32	17.5	0 0 0 0 0 0 0 0 0				
			25	1732.5	20175	17.08	17.5					
				1750	20350	17.43	17.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
			DD	1715	20000	17.10	17.5					
		50R		1732.5	20175	17.07	17.5					
				1750	20350	17.43	17.5	U				

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Page: 73 of 328

				FDD Band 4				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1712.5	19975	16.94	17.5	0
			0	1732.5	20175	17.12	17.5	0
				1752.5	20375	17.31	17.5	0
				1712.5	19975	16.94	17.5	0
		1 RB	12	1732.5	20175	17.04	17.5	0
	QPSK			1752.5	20375	17.31	17.5	0
				1712.5	19975	17.02	17.5	0
			24	1732.5	20175	17.04	17.5	0
				1752.5	20375	17.36	17.5	0
		12RB		1712.5	19975	16.97	17.5	0
			0	1732.5	20175	17.09	17.5	0
				1752.5	20375	17.23	17.5	0
				1712.5	19975	17.03	17.5	0
			6	1732.5	20175	17.01	17.5	0
				1752.5	20375	17.28	17.5	0
				1712.5	19975	17.05	17.5	0
5			13	1732.5	20175	16.99	17.5	0
				1752.5	20375	17.33	17.5	0
				1712.5	19975	17.04	17.5	0
		25	RB	1732.5	20175	17.06	17.5	0
			1	1752.5	20375	17.29	17.5	0
				1712.5	19975	17.32	17.5	0
			0	1732.5	20175	16.92	17.5	0
				1752.5	20375	17.45	17.5	0
		4 00	40	1712.5	19975	17.38	17.5	0
		1 RB	12	1732.5	20175	17.34	17.5	0
				1752.5	20375	16.75	17.5	0
			0.4	1712.5	19975	17.32	17.5	0
			24	1732.5	20175	17.18	17.5	0
				1752.5	20375	17.36	17.5	0
	16-QAM		0	1712.5	19975	16.95	17.5	0
	10-QAIVI		U	1732.5	20175	17.06	17.5	_
				1752.5	20375	17.38	17.5	0
		12RB	6	1712.5 1732.5	19975 20175	17.10 17.10	17.5 17.5	0
		ובתט	0	1732.5	20175	17.10	17.5	0
				1752.5	19975	17.13	17.5	0
			13	1712.5	20175	16.97	17.5	0
			, ,	1752.5	20175	17.41	17.5	0
				1732.5	19975	17.41	17.5	0
		25	RB	1712.5	20175	17.02	17.5	0
		23		1752.5	20375	17.10	17.5	0

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Page: 74 of 328

				FDD Band 4				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1711.5	19965	16.92	17.5	0
			0	1732.5	20175	16.92	17.5	0
				1753.5	20385	17.20	17.5	0
				1711.5	19965	16.94	17.5	0
		1 RB	7	1732.5	20175	17.07	17.5	0
				1753.5	20385	17.23	17.5	0
				1711.5	19965	16.92	17.5	0
			14	1732.5	20175	16.93	17.5	0
				1753.5	20385	17.18	17.5	0
				1711.5	19965	16.93	17.5	0
	QPSK		0	1732.5	20175	17.05	17.5	0
				1753.5	20385	17.28	17.5	0
		8RB		1711.5	19965	16.93	17.5	0
			4	1732.5	20175	17.03	17.5	0
				1753.5	20385	17.25	17.5	0
				1711.5	19965	17.03	17.5	0
3			7	1732.5	20175	16.97	17.5	0
				1753.5	20385	17.32	17.5	0
				1711.5	19965	16.95	17.5	0
		15	RB	1732.5	20175	17.00	17.5	0
				1753.5	20385	17.27	17.5	0
				1711.5	19965	17.18	17.5	0
			0	1732.5	20175	17.37	17.5	0
				1753.5	20385	17.37	17.5	0
				1711.5	19965	17.14	17.5	0
		1 RB	7	1732.5	20175	16.28	17.5	0
				1753.5	20385	17.44	17.5	0
				1711.5	19965	17.13	17.5	0
			14	1732.5	20175	17.24	17.5	0
				1753.5	20385	17.33	17.5	0
				1711.5	19965	17.09	17.5	0
	16-QAM		0	1732.5	20175	17.09	17.5	0
				1753.5	20385	17.33	17.5	0
				1711.5	19965	16.97	17.5	0
		8RB	4	1732.5	20175	17.15	17.5	0
				1753.5	20385	17.20	17.5	0
			_	1711.5	19965	16.99	17.5	0
			7	1732.5	20175	17.05	17.5	0
				1753.5	20385	17.31	17.5	0
				1711.5	19965	16.97	17.5	0
		15	RB	1732.5	20175	17.14	17.5	0
	151		1753.5	20385	17.29	17.5	0	

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Page: 75 of 328

				FDD Band 4				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1710.7	19957	16.87	17.5	0
			0	1732.5	20175	17.12	17.5	0
				1754.3	20393	17.32	17.5	0
				1710.7	19957	16.84	17.5	0
	QPSK	1 RB	2	1732.5	20175	17.04	17.5	0
				1754.3	20393	17.15	17.5	0
				1710.7	19957	16.94	17.5	0
			5	1732.5	20175	16.95	17.5	0
				1754.3	20393	17.28	17.5	0
				1710.7	19957	16.86	17.5	0
		3RB	0	1732.5	20175	16.99	17.5	0
				1754.3	20393	17.34	17.5	0
				1710.7	19957	16.88	17.5	0
			2	1732.5	20175	17.04	17.5	0
				1754.3	20393	17.33	17.5	0
				1710.7	19957	16.91	17.5	0
1.4			3	1732.5	20175	17.00	17.5	0
				1754.3	20393	17.24	17.5	0
				1710.7	19957	16.93	17.5	0
		6F	RB	1732.5	20175	17.05	17.5	0
				1754.3	20393	17.36	17.5	0
				1710.7	19957	17.08	17.5	0
			0	1732.5	20175	17.38	17.5	0
				1754.3	20393	17.39	17.5	0
				1710.7	19957	17.23	17.5	0
		1 RB	2	1732.5	20175	16.95	17.5	0
				1754.3	20393	17.37	17.5	0
				1710.7	19957	17.41	17.5	0
			5	1732.5	20175	17.28	17.5	0
				1754.3	20393	17.41	17.5	0
				1710.7	19957	16.75	17.5	0
	16-QAM		0	1732.5	20175	17.25	17.5	0
				1754.3	20393	17.26	17.5	0
				1710.7	19957	17.06	17.5	0
		3RB	2	1732.5	20175	17.16	17.5	0
				1754.3	20393	17.30	17.5	0
				1710.7	19957	17.05	17.5	0
			3	1732.5	20175	16.94	17.5	0
				1754.3	20393	17.12	17.5	0
				1710.7	19957	17.15	17.5	0
		6RB		1732.5	20175	17.13	17.5	0
	6RI		1754.3	20393	17.36	17.5	0	

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Page: 76 of 328

				FDD Band 5				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				829	20450	21.98	22	0
			0	836.5	20525	21.82	22	0
				844	20600	21.66	22	0
				829	20450	21.97	22	0
		1 RB	25	836.5	20525	21.89	22	0
				844	20600	21.58	22	0
				829	20450	21.90	22	0
			49	836.5	20525	21.70	22	0
				844	20600	21.96	22	0
				829	20450	21.88	22	0
	QPSK		0	836.5	20525	21.70	22	0
				844	20600	21.75	22	0
		25RB		829	20450	21.87	22	0
			12	836.5	20525	21.68	22	0
				844	20600	21.65	22	0
				829	20450	21.87	22	0
10			25	836.5	20525	21.66	22	0
				844	20600	21.90	22	0
				829	20450	21.85	22	0
		50	RB	836.5	20525	21.72	22	0
				844	20600	21.80	22	0
				829	20450	21.91	22	0
			0	836.5	20525	21.41	22	0
				844	20600	21.67	22	0
				829	20450	20.97	22	0
		1 RB	25	836.5	20525	21.34	22	0
				844	20600	21.24	22	0
				829	20450	21.76	22	0
			49	836.5	20525	21.78	22	0
				844	20600	21.87	22	0
				829	20450	21.02	22	0
	16-QAM		0	836.5	20525	20.79	22	0
				844	20600	20.81	22	0
				829	20450	21.00	22	0
		25RB	12	836.5	20525	20.78	22	0
				844	20600	20.75	22	0
				829	20450	20.78	22	0
			25	836.5	20525	20.83	22	0
				844	20600	21.01	22	0
		50RB		829	20450	21.00	22	0
				836.5	20525	20.74	22	0
				844	20600	20.78	22	0

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Page: 77 of 328

BW(Mhz) Modulation RB Size RB Offset Frequency (MHz) Channel Conducted power (dRm) Max. Allowed power (dRm)					FDD Band 5				
PARE 1 RB 12 836.5 20525 21.23 22 0 846.5 20625 21.07 22 0 826.5 20425 21.35 22 0 846.5 20625 21.27 22 0 846.5 20625 21.27 22 0 846.5 20625 21.27 22 0 846.5 20625 21.37 22 0 846.5 20625 21.37 22 0 846.5 20625 21.37 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.33 22 0 846.5 20625 21.03 22 0 846.5 20625 21.03 22 0 846.5 20625 21.03 22 0 846.5 20625 21.00 22 0 846.5 20625 21.20 22 0 846.5 20625 21.20 22 0 846.5 20625 21.20 22 0 846.5 20625 21.20 22 0 846.5 20625 21.20 22 0 846.5 20625 21.20 22 0 846.5 20625 21.25 22 0 846.5 20625 21.25 22 0 846.5 20625 21.25 22 0 846.5 20625 21.25 22 0 846.5 20625 21.25 22 0 846.5 20625 21.25 22 0 846.5 20625 21.25 22 0 846.5 20625 21.25 22 0 846.5 20625 21.26 22 0 846.5 20625 21.27 22 0 846.5 20625 21.27 22 0 846.5 20625 21.27 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 21.61 22 0 846.5 20625 20.81 22 0 846.5 20625 20.81 22 0 846.5 20625 20.81 22 0	BW(Mhz)	Modulation	RB Size	RB Offset	Frequency	Channel		Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
RAGES 20625 21.07 22 0 826.5 20425 21.35 22 0 826.5 20425 21.35 22 0 826.5 20625 21.27 22 0 826.5 20425 21.36 22 0 826.5 20425 21.36 22 0 826.5 20425 21.40 22 0 826.5 20425 21.40 22 0 826.5 20425 21.35 22 0 826.5 20425 21.35 22 0 826.5 20425 21.35 22 0 826.5 20425 21.35 22 0 826.5 20425 21.35 22 0 826.5 20425 21.33 22 0 826.5 20525 21.13 22 0 826.5 20525 21.13 22 0 826.5 20525 21.13 22 0 826.5 20525 21.13 22 0 826.5 20525 21.13 22 0 826.5 20525 21.13 22 0 826.5 20525 21.10 22 0 826.5 20525 21.10 22 0 826.5 20525 21.10 22 0 826.5 20525 21.10 22 0 826.5 20525 21.10 22 0 826.5 20525 21.14 22 0 826.5 20525 21.25 22 0 826.5 20525 21.25 22 0 826.5 20525 21.25 22 0 826.5 20525 21.25 22 0 826.5 20525 21.25 22 0 826.5 20525 21.34 22 0 826.5 20525 21.34 22 0 826.5 20525 21.34 22 0 826.5 20525 21.34 22 0 826.5 20525 21.36 22 0 826.5 20525 21.36 22 0 826.5 20525 21.36 22 0 826.5 20525 21.56 22 0 826.5 20525 21.56 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.68 22 0 826.5 20525 21.56 22 0 826.5 20525 21.56 22 0 826.5 20525 21.56 22 0 826.5 20525 20525 20525 20525 20525 20525 20525 20525 20525 20525 20525 20525 20525 20525 20525 20525					826.5	20425	21.44	22	0
A Sec. 5				0	836.5	20525	21.23	22	0
APSK 1 RB 12 836.5 20525 21.22 22 0 846.5 20625 21.27 22 0 826.5 20425 21.40 22 0 846.5 20625 21.15 22 0 846.5 20625 21.15 22 0 846.5 20625 21.33 22 0 826.5 20425 21.33 22 0 836.5 20525 21.13 22 0 836.5 20525 21.13 22 0 836.5 20525 21.13 22 0 836.5 20525 21.13 22 0 836.5 20525 21.13 22 0 836.5 20525 21.13 22 0 836.5 20525 21.13 22 0 836.5 20525 21.13 22 0 836.5 20525 21.10 22 0 836.5 20525 21.10 22 0 836.5 20525 21.10 22 0 836.5 20525 21.10 22 0 836.5 20525 21.14 22 0 836.5 20525 21.14 22 0 836.5 20525 21.14 22 0 836.5 20525 21.14 22 0 836.5 20525 21.14 22 0 836.5 20525 21.14 22 0 836.5 20525 21.15 22 0 836.5 20525 21.16 22 0 836.5 20525 21.17 22 0 836.5 20525 21.18 22 0 836.5 20525 21.19 22 0 836.5 20525 21.18 22 0 836.5 20525 21.19 22 0 836.5 20525 21.68 22 0 836.5 20525 21.68 22 0 836.5 20525 21.68 22 0 836.5 20525 21.68 22 0 836.5 20525 21.68 22 0 836.5 20525 21.68 22 0 836.5 20525 21.76 22 0 836.5 20525 21.76 22 0 836.5 20525 20.81 22 0 836.5 20525 20.81 22 0 836.5 20525 20.81 22 0 836.5 20525 20.81 22 0 836.5 20525 20.81 22 0 836.5 20525 20.81 22 0					846.5	20625	21.07	22	0
OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OSA 836.5 20625 21.27 22 0 826.5 20425 21.40 22 0 826.5 20425 21.35 22 0 826.5 20425 21.35 22 0 826.5 20425 21.33 22 0 826.5 20625 21.13 22 0 826.5 20625 21.03 22 0 826.5 20625 21.03 22 0 826.5 20625 21.03 22 0 826.5 20625 21.03 22 0 826.5 20625 21.13 22 0 826.5 20625 21.13 22 0 826.5 20625 21.10 22 0 826.5 20625 21.10 22 0 826.5 20625 21.20 22 0 826.5 20625 21.20 22 0 826.5 20625 21.20 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.25 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 21.68 22 0 826.5 20625 20.81 22 0					826.5	20425	21.35	22	0
A S26.5			1 RB	12	836.5	20525	21.22	22	0
OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK					846.5	20625	21.27	22	0
QPSK QPSK 0 846.5 20625 21.35 22 0 826.5 20425 21.33 22 0 836.5 20525 21.13 22 0 846.5 20625 21.13 22 0 846.5 20625 21.13 22 0 846.5 20625 21.35 22 0 846.5 20625 21.35 22 0 826.5 20425 21.35 22 0 826.5 20425 21.36 22 0 826.5 20425 21.36 22 0 826.5 20425 21.36 22 0 826.5 20425 21.10 22 0 826.5 20425 21.10 22 0 826.5 20425 21.10 22 0 826.5 20425 21.14 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.34 22 0 826.5 20425 21.36 22 0 826.5 20425 21.36 22 0 826.5 20425 21.66 22 0 826.5 20425 21.66 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 21.61 22 0 826.5 20425 20.81 20 20 20 20 20 20 20 20 20 2					826.5	20425	21.40	22	0
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846.5 20625 20.82 22 0									

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Page: 78 of 328

				FDD Band 5				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				825.5	20415	21.37	22	0
			0	836.5	20525	21.06	22	0
				847.5	20635	21.04	22	0
				825.5	20415	21.36	22	0
	QPSK	1 RB	7	836.5	20525	21.17	22	0
				847.5	20635	21.28	22	0
				825.5	20415	21.34	22	0
			14	836.5	20525	21.09	22	0
				847.5	20635	21.23	22	0
		8RB		825.5	20415	21.32	22	0
			0	836.5	20525	21.12	22	0
				847.5	20635	21.23	22	0
				825.5	20415	21.32	22	0
			4	836.5	20525	21.08	22	0
				847.5	20635	21.24	22	0
				825.5	20415	21.31	22	0
3			7	836.5	20525	21.14	22	0
				847.5	20635	21.29	22	0
				825.5	20415	21.31	22	0
		15	RB	836.5	20525	21.11	22	0
				847.5	20635	21.35	22	0
				825.5	20415	21.28	22	0
			0	836.5	20525	21.40	22	0
				847.5	20635	20.79	22	0
				825.5	20415	21.65	22	0
		1 RB	7	836.5	20525	21.66	22	0
				847.5	20635	21.64	22	0
				825.5	20415	21.56	22	0
			14	836.5	20525	21.56	22	0
				847.5	20635	21.63	22	0
	40.0		_	825.5	20415	20.78	22	0
	16-QAM		0	836.5	20525	20.76	22	0
				847.5	20635	20.70	22	0
		000		825.5	20415	20.86	22	0
		8RB	4	836.5	20525	20.72	22	0
				847.5	20635	20.63	22	0
			7	825.5	20415	20.85	22	0
			7	836.5	20525	20.77	22	0
				847.5	20635	20.75	22	0
		1555		825.5	20415	20.92	22	0
		15	RB	836.5	20525	20.70	22	0
	1311		847.5	20635	20.65	22	0	

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Page: 79 of 328

				FDD Band 5					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
				824.7	20407	21.30	22	0	
			0	836.5	20525	21.06	22	0	
				848.3	20643	21.23	22	0	
				824.7	20407	21.26	22	0	
		1 RB	2	836.5	20525	21.02	22	0	
				848.3	20643	21.09	22	0	
				824.7	20407	21.35	22	0	
			5	836.5	20525	21.09	22	0	
				848.3	20643	21.24	22	0	
				824.7	20407	21.27	22	0	
	QPSK		0	836.5	20525	21.03	22	0	
				848.3	20643	21.14	22	0	
		3RB		824.7	20407	21.34	22	0	
			2	836.5	20525	21.03	22	0	
				848.3	20643	21.12	22	0	
				824.7	20407	21.29	22	0	
1.4			3	836.5	20525	21.08	22	0	
				848.3	20643	21.14	22	0	
				824.7	20407	21.23	22	0	
		6F	RB	836.5	20525	21.05	22	0	
				848.3	20643	21.17	22	0	
				824.7	20407	21.61	22	0	
			0	836.5	20525	21.76	22	0	
				848.3	20643	21.72	22	0	
				824.7	20407	21.76	22	0	
		1 RB	2	836.5	20525	21.29	22	0	
				848.3	20643	21.47	22	0	
				824.7	20407	21.58	22	0	
			5	836.5	20525	21.27	22	0	
				848.3	20643	21.40	22	0	
				824.7	20407	21.46	22	0	
	16-QAM		0	836.5	20525	21.20	22	0	
				848.3	20643	21.28	22	0	
				824.7	20407	21.32	22	0	
		3RB	2	836.5	20525	21.34	22	0	
				848.3	20643	21.20	22	0	
			_	824.7	20407	21.57	22	0	
			3	836.5	20525	21.35	22	0	
				848.3	20643	21.42	22	0	
		6RB		824.7	20407	20.83	22	0	
				836.5	20525	20.72	22	0	
					848.3	20643	20.69	22	0

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SGS Taiwan Ltd.



Page: 80 of 328

				FDD Band 7				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2510	20850	17.43	17.5	0
			0	2535	21100	17.49	17.5	0
				2560	21350	17.47	17.5	0
				2510	20850	17.42	17.5	0
	QPSK	1 RB	50	2535	21100	17.38	17.5	0
				2560	21350	17.45	17.5	0
				2510	20850	17.44	17.5	0
			99	2535	21100	17.44	17.5	0
				2560	21350	17.41	17.5	0
		5RB		2510	20850	17.21	17.5	0
			0	2535	21100	17.16	17.5	0
				2560	21350	17.39	17.5	0
				2510	20850	17.25	17.5	0
			25	2535	21100	17.21	17.5	0
				2560	21350	17.45	17.5	0
				2510	20850	17.31	17.5	0
			50	2535	21100	17.28	17.5	0
				2560	21350	17.39	17.5	0
20				2510	20850	17.34	17.5	0
		100)RB	2535	21100	17.32	17.5	0
		1		2560	21350	17.41	17.5	0
				2510	20850	17.33	17.5	0
			0	2535	21100	17.48	17.5	0
				2560	21350	17.38	17.5	0
				2510	20850	17.47	17.5	0
		1 RB	50	2535	21100	17.37	17.5	0
				2560	21350	17.44	17.5	0
				2510	20850	17.40	17.5	0
			99	2535	21100	17.46	17.5	0
				2560	21350	17.44	17.5	0
			_	2510	20850	17.25	17.5	0
	16-QAM		0	2535	21100	17.19	17.5	0
				2560	21350	17.45	17.5	0
				2510	20850	17.31	17.5	0
		5RB	25	2535	21100	17.32	17.5	0
				2560	21350	17.46	17.5	0
			5 0	2510	20850	17.28	17.5	0
			50	2535	21100	17.38	17.5	0
				2560	21350	17.38	17.5	0
				2510	20850	17.35	17.5	0
		100)RB	2535	21100	17.46	17.5	0
				2560	21350	17.39	17.5	0

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Page: 81 of 328

				FDD Band 7				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2507.5	20825	17.13	17.5	0
			0	2535	21100	17.01	17.5	0
				2562.5	21375	17.39	17.5	0
				2507.5	20825	17.16	17.5	0
	QPSK	1 RB	36	2535	21100	17.25	17.5	0
				2562.5	21375	17.40	17.5	0
				2507.5	20825	17.47	17.5	0
			74	2535	21100	17.45	17.5	0
				2562.5	21375	17.42	17.5	0
		36RB		2507.5	20825	17.19	17.5	0
			0	2535	21100	17.16	17.5	0
				2562.5	21375	17.48	17.5	0
				2507.5	20825	17.25	17.5	0
			18	2535	21100	17.25	17.5	0
				2562.5	21375	17.42	17.5	0
				2507.5	20825	17.34	17.5	0
15			37	2535	21100	17.30	17.5	0
				2562.5	21375	17.48	17.5	0
				2507.5	20825	17.27	17.5	0
		75	RB	2535	21100	17.24	17.5	0
				2562.5	21375	17.44	17.5	0
				2507.5	20825	17.45	17.5	0
			0	2535	21100	17.43	17.5	0
				2562.5	21375	17.39	17.5	0
				2507.5	20825	17.42	17.5	0
		1 RB	36	2535	21100	17.44	17.5	0
				2562.5	21375	17.47	17.5	0
				2507.5	20825	17.39	17.5	0
			74	2535	21100	17.30	17.5	0
				2562.5	21375	17.48	17.5	0
				2507.5	20825	17.26	17.5	0
	16-QAM		0	2535	21100	17.20	17.5	0
				2562.5	21375	17.41	17.5	0
				2507.5	20825	17.30	17.5	0
		36RB	18	2535	21100	17.25	17.5	0
				2562.5	21375	17.46	17.5	0
				2507.5	20825	17.45	17.5	0
			37	2535	21100	17.33	17.5	0
				2562.5	21375	17.44	17.5	0
				2507.5	20825	17.33	17.5	0
		75RB		2535	21100	17.33	17.5	0
				2562.5	21375	17.46	17.5	0

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Page: 82 of 328

				FDD Band 7				
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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2505	20800	17.19	17.5	0
			0	2535	21100	17.15	17.5	0
				2565	21400	17.44	17.5	0
				2505	20800	17.30	17.5	0
	QPSK	1 RB	25	2535	21100	17.32	17.5	0
				2565	21400	17.47	17.5	0
				2505	20800	17.39	17.5	0
			49	2535	21100	17.39	17.5	0
				2565	21400	17.48	17.5	0
		25RB		2505	20800	17.21	17.5	0
			0	2535	21100	17.29	17.5	0
				2565	21400	17.41	17.5	0
				2505	20800	17.27	17.5	0
			12	2535	21100	17.28	17.5	0
				2565	21400	17.46	17.5	0
				2505	20800	17.31	17.5	0
10			25	2535	21100	17.27	17.5	0
				2565	21400	17.46	17.5	0
			D D	2505	20800	17.26	17.5	0
		50	RB	2535	21100	17.28	17.5	0
				2565	21400	17.48	17.5	0
			0	2505	20800	17.24	17.5	0
			0	2535	21100	16.89	17.5	0
				2565	21400	17.45	17.5	0
		1 RB	25	2505 2535	20800 21100	17.04 17.21	17.5 17.5	0
		IND	23	2565	21400	17.48	17.5	0
				2505	20800	17.46	17.5	0
			49	2535	21100	17.21	17.5	0
			43	2565	21400	17.10	17.5	0
				2505	20800	17.17	17.5	0
	16-QAM		0	2535	21100	17.35	17.5	0
				2565	21400	16.91	17.5	0
				2505	20800	17.36	17.5	0
		25RB	12	2535	21100	17.34	17.5	0
		<u>_</u>	·=	2565	21400	16.84	17.5	0
				2505	20800	17.38	17.5	0
			25	2535	21100	17.43	17.5	0
			-	2565	21400	16.91	17.5	0
				2505	20800	17.35	17.5	0
		50RB		2535	21100	17.39	17.5	0
				2565	21400	16.85	17.5	0

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Page: 83 of 328

				FDD Band 7				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2502.5	20775	17.23	17.5	0
			0	2535	21100	17.23	17.5	0
				2567.5	21425	17.46	17.5	0
				2502.5	20775	17.20	17.5	0
		1 RB	12	2535	21100	17.11	17.5	0
	QPSK			2567.5	21425	17.40	17.5	0
				2502.5	20775	17.26	17.5	0
			24	2535	21100	17.25	17.5	0
				2567.5	21425	17.03	17.5	0
		12RB		2502.5	20775	17.19	17.5	0
			0	2535	21100	17.22	17.5	0
				2567.5	21425	17.41	17.5	0
				2502.5	20775	17.25	17.5	0
			6	2535	21100	17.22	17.5	0
				2567.5	21425	17.40	17.5	0
				2502.5	20775	17.26	17.5	0
5			13	2535	21100	17.21	17.5	0
				2567.5	21425	17.46	17.5	0
				2502.5	20775	17.24	17.5	0
		25	RB	2535	21100	17.20	17.5	0
				2567.5	21425	17.39	17.5	0
				2502.5	20775	17.12	17.5	0
			0	2535	21100	17.04	17.5	0
				2567.5	21425	17.32	17.5	0
				2502.5	20775	17.06	17.5	0
		1 RB	12	2535	21100	17.14	17.5	0
				2567.5	21425	17.37	17.5	0
				2502.5	20775	17.38	17.5	0
			24	2535	21100	17.13	17.5	0
				2567.5	21425	17.48	17.5	0
	40.0414			2502.5	20775	17.24	17.5	0
	16-QAM		0	2535	21100	17.26	17.5	0
				2567.5	21425	17.42	17.5	0
		1000	_	2502.5	20775	17.31	17.5	0
		12RB	6	2535	21100	17.16	17.5	0
				2567.5	21425	17.45	17.5	0
			10	2502.5	20775	17.27	17.5	0
			13	2535	21100	17.21	17.5	0
				2567.5	21425	17.03	17.5	0
		25	RB	2502.5	20775	17.28	17.5	0
		25	ווט	2535 2567.5	21100	17.24	17.5	0
			2567.5	21425	17.45	17.5	0	

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Page: 84 of 328

				FDD Band 12				
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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				704	23060	18.99	19.5	0
			0	707.5	23095	19.18	19.5	0
				711	23130	19.25	19.5	0
				704	23060	19.32	19.5	0
	QPSK	1 RB	25	707.5	23095	19.29	19.5	0
				711	23130	19.17	19.5	0
				704	23060	19.24	19.5	0
			49	707.5	23095	19.49	19.5	0
				711	23130	19.20	19.5	0
		25RB		704	23060	19.18	19.5	0
			0	707.5	23095	19.13	19.5	0
				711	23130	19.00	19.5	0
				704	23060	19.15	19.5	0
			12	707.5	23095	19.07	19.5	0
				711	23130	19.08	19.5	0
10				704	23060	19.13	19.5	0
			25	707.5	23095	19.06	19.5	0
				711	23130	19.07	19.5	0
		50	DD	704	23060	19.16	19.5	0
		50	RB	707.5	23095	19.10	19.5	0
			1	711	23130	19.17	19.5	0
			0	704	23060	19.15	19.5	0
				707.5	23095	19.04	19.5	0
				711 704	23130 23060	19.29	19.5 19.5	0
		1 RB	25	704	23095	18.91 19.15	19.5	0
		IND	23	707.5				
				711	23130 23060	18.63 19.20	19.5 19.5	0
			49	707.5	23095	19.42	19.5	0
			43	707.3	23130	19.42	19.5	0
				704	23060	18.80	19.5	0
	16-QAM		0	707.5	23095	18.95	19.5	0
				711	23130	18.85	19.5	0
				704	23060	19.04	19.5	0
		25RB	12	707.5	23095	18.95	19.5	0
		<u>_</u>	·=	711	23130	18.82	19.5	0
				704	23060	18.78	19.5	0
			25	707.5	23095	19.01	19.5	0
				711	23130	19.07	19.5	0
				704	23060	19.04	19.5	0
		50RB		707.5	23095	18.90	19.5	0
				711	23130	18.91	19.5	0

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SGS Taiwan Ltd. No.134,Wu Kung F 台灣檢驗科技股份有限公司 t (886 ②) 2299 ③27

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.sgs.com



Page: 85 of 328

				FDD Band 12						
				. 35 Bana 12			Target			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				701.5	23035	18.68	19.5	0		
			0	707.5	23095	18.93	19.5	0		
				713.5	23155	18.81	19.5	0		
				701.5	23035	18.86	19.5	0		
		1 RB	12	707.5	23095	18.71	19.5	0		
				713.5	23155	18.89	19.5	0		
				701.5	23035	18.96	19.5	0		
			24	707.5	23095	18.80	19.5	0		
				713.5	23155	18.75	19.5	0		
				701.5	23035	18.57	19.5	0		
	QPSK		0	707.5	23095	18.69	19.5	0		
				713.5	23155	18.77	19.5	0		
				701.5	23035	18.73	19.5	0		
		12RB	6	707.5	23095	18.71	19.5	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				713.5	23155	18.82	19.5			
				701.5	23035	18.82	19.5			
			13	707.5	23095	18.76	19.5			
				713.5	23155	18.82	19.5			
				701.5	23035	18.87	19.5			
		25	RB	707.5	23095	18.74	19.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
5			1	713.5	23155	18.70	19.5			
				701.5	23035	19.13	19.5			
			0	707.5	23095	18.88	19.5			
				713.5	23155	19.45	19.5			
				701.5	23035	19.27	19.5			
		1 RB	12	707.5	23095	19.34	19.5			
				713.5	23155	19.08	19.5			
			0.4	701.5	23035	19.44	19.5			
			24	707.5	23095	19.07	19.5			
				713.5	23155	19.48	19.5			
	16-QAM		0	701.5 707.5	23035 23095	18.67 18.74	19.5 19.5			
	10-QAW		U	707.5		+		-		
					23155	18.75	19.5			
		12RB	6	701.5 707.5	23035 23095	18.83 18.75	19.5 19.5			
		ובתט	U	707.5	23155	18.81	19.5			
				713.5	23035	18.84	19.5			
			13	701.5	23095	18.80	19.5			
				707.5	23155	18.60	19.5	0		
				713.5	23035	18.83	19.5	0		
		25	RR	707.5	23095	18.81	19.5	0		
	25F			713.5	23155	18.70	19.5	0		
				กาง.ช	20100	10.70	13.5	U		

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Page: 86 of 328

				FDD Band 12						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				700.5	23025	18.80	19.5	0		
			0	707.5	23095	18.82	19.5	0		
				714.5	23165	18.74	19.5	0		
				700.5	23025	18.74	19.5	0		
		1 RB	7	707.5	23095	18.89	19.5	0		
				714.5	23165	18.89	19.5	0		
				700.5	23025	18.74	19.5	0		
			14	707.5	23095	18.70	19.5	0		
				714.5	23165	18.73	19.5	0		
				700.5	23025	18.72	19.5	0		
	QPSK		0	707.5	23095	18.70	19.5	0		
				714.5	23165	18.67	19.5	0		
				700.5	23025	18.84	19.5	r + MPR Allowed per 3GPP(dB) 6		
		8RB	4	707.5	23095	18.73	19.5			
				714.5	23165	18.73	19.5			
				700.5	23025	18.81	19.5			
			7	707.5	23095	18.78	19.5	0		
				714.5	23165	18.69	19.5	0		
				700.5	23025	18.58	19.5	0		
		15	RB	707.5	23095	18.83	19.5	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
3				714.5 700.5	23165	18.74	19.5	0		
Ŭ				0						
			0	707.5	23095	19.05	19.5			
				714.5	23165	19.27	19.5			
				700.5	23025	18.73	19.5	0		
		1 RB	7	707.5	23095	18.88	19.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				714.5	23165	19.09	19.5			
				700.5	23025	19.29	19.5			
			14	707.5	23095	19.26	19.5			
				714.5	23165	18.89	19.5			
				700.5	23025	18.76	19.5			
	16-QAM		0	707.5	23095	18.80	19.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				714.5	23165	18.79	19.5			
				700.5	23025	18.87	19.5			
		8RB	4	707.5	23095	18.60	19.5			
				714.5	23165	18.74	19.5			
			_	700.5	23025	18.84	19.5			
			7	707.5	23095	18.79	19.5			
				714.5	23165	18.58	19.5			
				700.5	23025	18.80	19.5			
	15R	KB	707.5	23095	18.88	19.5				
				714.5	23165	18.71	19.5	0		

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Page: 87 of 328

FDD Band 12											
				- 50 band 12			Torest				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				699.7	23017	18.84	19.5	0			
			0	707.5	23095	18.87	19.5	0			
				715.3	23173	18.93	19.5	0			
				699.7	23017	18.91	19.5	0			
		1 RB	2	707.5	23095	18.96	19.5	0			
				715.3	23173	18.67	19.5	0			
				699.7	23017	18.93	19.5	0			
			5	707.5	23095	18.84	19.5	0			
				715.3	23173	18.85	19.5	0			
				699.7	23017	18.83	19.5	0			
	QPSK		0	707.5	23095	18.79	19.5	0			
				715.3	23173	18.60	19.5	0			
				699.7	23017	18.75	19.5	0			
		3RB	2	707.5	23095	18.75	19.5	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O			
				715.3	23173	18.70	19.5				
			_	699.7	23017	18.78	19.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
			3	707.5	23095	18.76	19.5				
				715.3	23173	18.83	19.5				
		0.5	20	699.7	23017	18.80	19.5				
		61	RB	707.5	23095	18.77	19.5				
1.4				715.3	23173	18.77	19.5				
			0	699.7	23017	19.19	19.5	_			
			U	707.5	23095	19.22	19.5				
				715.3	23173	19.10	19.5				
		1 RB	2	699.7	23017	19.47	19.5				
		IND	2	707.5	23095	19.08	19.5				
				715.3 699.7	23173 23017	19.12 19.32	19.5 19.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
			5	707.5	23017	19.32	19.5				
			3	707.3	23173	19.36	19.5				
				699.7	23017	18.87	19.5				
	16-QAM		0	707.5	23095	18.87	19.5				
				715.3	23173	18.50	19.5	_			
				699.7	23017	18.78	19.5				
		3RB	2	707.5	23095	18.98	19.5				
		·	_	715.3	23173	19.03	19.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
				699.7	23017	19.03	19.5				
			3	707.5	23095	19.03	19.5				
			_	715.3	23173	18.92	19.5				
				699.7	23017	18.82	19.5				
		6F	RB	707.5	23095	18.74	19.5				
	On On			715.3	23173	18.78	19.5				

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Page: 88 of 328

				FDD Band 13				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	782	23230	20.47	20.5	0
		1 RB	25	782	23230	20.48	20.5	0
			49	782	23230	20.46	20.5	0
	QPSK		0	782	23230	20.17	20.5	0
		25 RB	12	782	23230	19.92	20.5	0
			25	782	23230	19.94	20.5	0
10		50	RB	782	23230	19.94	20.5	0
10			0	782	23230	20.00	20.5	0
		1 RB	25	782	23230	19.89	20.5	0
			49	782	23230	20.16	20.5	0
	16-QAM		0	782	23230	19.91	20.5	0
		25 RB	12	782	23230	19.91	20.5	0
			25	782	23230	19.90	20.5	0
		50	RB	782	23230	20.02	20.5	0

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Page: 89 of 328

				FDD Band 13							
				. 35 Dana 10			Taraat				
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	19.82	20.5	0			
			0	782	23230	19.72	20.5	0			
				784.5	23255	19.62	20.5	0			
				779.5	23205	19.64	20.5	0			
		1 RB	12	782	23230	19.65	20.5	0			
				784.5	23255	19.49	20.5	0			
				779.5	23205	19.76	20.5	0			
			24	782	23230	19.71	20.5	0			
				784.5	23255	19.70	20.5	0			
				779.5	23205	19.64	20.5	0			
	QPSK		0	782	23230	19.52	20.5	0			
				784.5	23255	19.58	20.5	0			
				779.5	23205	19.42	20.5	0			
		12RB	6	782	23230	19.58	20.5	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
				784.5	23255	19.69	20.5				
				779.5	23205	19.58	20.5				
			13	782	23230	19.60	20.5				
				784.5	23255	19.61	20.5	0			
				779.5	23205	19.77	20.5				
		25	RB	782	23230	19.64	20.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
5				784.5	23255	19.69	20.5				
				779.5	23205	20.06	20.5				
			0	782	23230	19.97	20.5				
				784.5	23255	19.82	20.5				
				779.5	23205	20.11	20.5				
		1 RB	12	782	23230	19.95	20.5	ł			
				784.5	23255	20.07	20.5				
				779.5	23205	20.33	20.5	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O			
			24	782	23230	19.83	20.5				
				784.5	23255	20.18	20.5				
	10.0414		_	779.5	23205	19.65	20.5				
	16-QAM		0	782	23230	19.78	20.5				
				784.5	23255	19.77	20.5				
		4055		779.5	23205	19.77	20.5				
		12RB	6	782	23230	19.69	20.5				
				784.5	23255	19.82	20.5				
			10	779.5	23205	19.67	20.5				
			13	782	23230	19.72	20.5				
				784.5	23255	19.72	20.5				
		0.5	DD	779.5	23205	19.66	20.5				
	25F		KR	782	23230	19.66	20.5				
				784.5	23255	19.73	20.5	0			

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Page: 90 of 328

				FDD Band 17							
				. JB Bana 17			Target Power +	MPR			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Max. Tolerance (dBm)	Allowed per 3GPP(dB)			
				709	23780	19.14	19.5	0			
			0	710	23790	19.27	19.5	0			
				711	23800	18.91	19.5	0			
				709	23780	19.25	19.5	0			
		1 RB	25	710	23790	19.11	19.5	0			
				711	23800	19.16	19.5	0			
				709	23780	19.34	19.5	0			
			49	710	23790	19.29	19.5	0			
				711	23800	19.48	19.5	0			
				709	23780	19.13	19.5				
	QPSK		0	710	23790	19.16	19.5				
				711	23800	19.21	19.5	ł — — — — — — — — — — — — — — — — — — —			
				709	23780	19.22	19.5				
		25RB	12	710	23790	19.19	19.5	+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
				711	23800	19.08	19.5				
				709	23780	19.34	19.5				
			25	710	23790	19.35	19.5				
				711	23800	19.30	19.5				
				709	23780	19.28	19.5				
		50	RB	710	23790	19.28	19.5				
10				711	23800	19.35	19.5				
				18.86	19.5						
			0	710	23790	19.14	19.5				
				711	23800	19.22	19.5				
		4 00	0.5	709	23780	19.38	19.5				
		1 RB	25	710	23790	19.12	19.5	ł — — — — — — — — — — — — — — — — — — —			
				711	23800	19.45	19.5				
			40	709	23780	19.24	19.5				
			49	710	23790	19.16	19.5				
				711	23800	18.85	19.5				
	10.0014		_	709	23780	18.87	19.5				
	16-QAM		0	710	23790	18.89	19.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
				711	23800	18.80	19.5				
		٥٢٥٥	40	709	23780	18.88	19.5				
		25RB	12	710	23790	18.76	19.5				
				711	23800	18.90	19.5				
			0.5	709	23780	18.94	19.5				
			25	710	23790	18.85	19.5				
				711	23800	18.77	19.5				
		F0	DD	709	23780	19.03	19.5				
	50F		מח	710	23790	18.86	19.5				
				711	23800	18.98	19.5	U			

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Page: 91 of 328

				FDD Band 17							
				. 35 Bana 17			Target				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				706.5	23755	18.77	19.5	0			
			0	710	23790	18.74	19.5	0			
				713.5	23825	18.78	19.5	0			
				706.5	23755	18.80	19.5	0			
		1 RB	12	710	23790	18.70	19.5	0			
				713.5	23825	18.79	19.5	0			
				706.5	23755	18.90	19.5	0			
			24	710	23790	18.88	19.5	0			
				713.5	23825	18.90	19.5	0			
				706.5	23755	18.74	19.5				
	QPSK		0	710	23790	18.75	19.5				
				713.5	23825	18.75	19.5	•			
			_	706.5	23755	18.70	19.5	Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB) Allowed per 3GPP(dB)			
		12RB	6	710	23790	18.64	19.5				
				713.5	23825	18.71	19.5				
				706.5	23755	18.75	19.5				
			13	710	23790	18.81	19.5				
				713.5	23825	18.69	19.5				
		0.5	DD	706.5	23755	18.73	19.5				
		25	RB	710	23790	18.79	19.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
5				713.5	23825	18.78	19.5				
			0	706.5 710	23755	19.11	19.5				
			U	713.5	23790 23825	19.08 19.17	19.5				
				713.5	23755	19.17	19.5				
		1 RB	12	710	23790	19.47	19.5				
		1110	12	713.5	23825	19.18	19.5				
				713.5	23755	19.43	19.5				
			24	710	23790	18.59	19.5				
				713.5	23825	19.29	19.5				
				706.5	23755	18.97	19.5				
	16-QAM		0	710	23790	18.97	19.5				
				713.5	23825	18.76	19.5	-			
				706.5	23755	18.80	19.5				
		12RB	6	710	23790	18.82	19.5				
				713.5	23825	18.80	19.5	0			
				706.5	23755	18.83	19.5	0			
			13	710	23790	18.88	19.5	0			
				713.5	23825	18.61	19.5	0			
				706.5	23755	18.86	19.5	0			
		25	RB	710	23790	18.72	19.5	0			
				713.5	23825	18.82	19.5	0			

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SGS Taiwan Ltd.



Page: 92 of 328

				FDD Band 26				
				. 35 5414 20			Target	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				822.5	26825	20.79	21	0
			0	831.5	26865	20.75	21	0
				841.5	26965	20.62	21	0
				822.5	26825	20.83	21	0
		1 RB	36	831.5	26865	20.70	21	0
				841.5	26965	20.57	21	0
				822.5	26825	20.64	21	0
			74	831.5	26865	20.77	21	0
				841.5	26965	20.83	21	0
				822.5	26825	20.97	21	0
	QPSK		0	831.5	26865	20.81	21	0
				841.5	26965	20.59	21	0
				822.5	26825	20.84	21	0
		36RB	18	831.5	26865	20.72	21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				841.5	26965	20.67	21	
				822.5	26825	20.85	21	
			37	831.5	26865	20.71	21	
				841.5	26965	20.64	21	0
				822.5	26825	20.97	21	
		75	RB	831.5	26865	20.90	21	0
15				841.5	26965	20.85	21	
			0	822.5	26825	20.88	21	
				831.5	26865	20.81	21	
				841.5	26965	20.82	21	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O
				822.5	26825	20.78	21	
		1 RB	36	831.5	26865	20.72	21	ł
				841.5	26965	20.96	21	
				822.5	26825	20.71	21	
			74	831.5	26865	20.91	21	
				841.5	26965	20.81	21	
	40.044			822.5	26825	20.89	21	
	16-QAM		0	831.5	26865	20.85	21	
				841.5	26965	20.79	21	
		0055	40	822.5	26825	20.89	21	
		36RB	18	831.5	26865	20.81	21	
				841.5	26965	20.80	21	
			07	822.5	26825	20.95	21	
			37	831.5	26865	20.74	21	
				841.5	26965	20.74	21	
		75	DD	822.5	26825	20.61	21	
	75F		KR	831.5	26865	20.91	21	
				841.5	26965	20.91	21	0

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SGS Taiwan Ltd.



Page: 93 of 328

				FDD Band 26						
				. 55 5414 20			Target			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				820	26750	20.81	21	0		
			0	831.5	26865	20.76	21	0		
				844	26990	20.74	21	0		
				820	26750	20.64	21	0		
		1 RB	25	831.5	26865	20.73	21	0		
				844	26990	20.56	21	0		
				820	26750	20.86	21	0		
			49	831.5	26865	20.75	21	0		
				844	26990	20.88	21	0		
				820	26750	20.85	21			
	QPSK		0	831.5	26865	20.85	21			
				844	26990	20.49	21	•		
			40	820	26750	20.82	21			
		25RB	12	831.5	26865	20.70	21	T + MPR Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O O		
				844	26990	20.55	21			
				820	26750	20.84	21			
			25	831.5	26865	20.72	21			
				844	26990	20.64	21			
		50	DD	820	26750	20.93	21			
		50	RB	831.5	26865	20.70	21			
10				844	26990	20.78	21			
			0	820	26750	20.79	21 21			
			U	831.5 844	26865 26990	20.66 20.37	21			
				820	26750	20.66	21			
		1 RB	25	831.5	26865	20.68	21			
		1110	20	844	26990	20.58	21			
				820	26750	20.36	21			
			49	831.5	26865	20.77	21			
				844	26990	20.94	21			
				820	26750	20.89	21			
	16-QAM		0	831.5	26865	20.84	21			
			-	844	26990	20.68	21	-		
				820	26750	20.91	21			
		25RB	12	831.5	26865	20.87	21			
				844	26990	20.59	21			
				820	26750	20.91	21	0		
			25	831.5	26865	20.80	21			
				844	26990	20.83	21			
				820	26750	20.95	21	0		
		50	RB	831.5	26865	20.80	21	0		
		001		844	26990	20.75	21	0		

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Page: 94 of 328

				FDD Band 26				
				. 35 5414 20			Tarast	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				816.5	26715	20.76	21	0
			0	831.5	26865	20.73	21	0
				846.5	27015	20.56	21	0
				816.5	26715	20.70	21	0
		1 RB	12	831.5	26865	20.71	21	0
				846.5	27015	20.62	21	0
				816.5	26715	20.86	21	0
			24	831.5	26865	20.75	21	0
				846.5	27015	20.71	21	0
				816.5	26715	20.77	21	0
	QPSK		0	831.5	26865	20.72	21	0
				846.5	27015	20.66	21	0
				816.5	26715	20.87	Max. Tolerance (dBm) 21 21 21 21 21 21 21 21 21 21 21 21 21	0
		12RB	6	831.5	26865	20.60	21	21 0 21 0 21 0 21 0 21 0
				846.5	27015	20.51	21	0
				816.5	26715	20.82		
			13	831.5	26865	20.62	21	0 0 0 0 0 0 0
				846.5	27015	20.75		0
				816.5	26715	20.80		
		25	RB	831.5	26865	20.60		
5				846.5	27015	20.67		
			0	816.5	26715	20.59		
			0	831.5	26865	20.84		
				846.5	27015	20.20		
				816.5	26715	20.41		
		1 RB	12	831.5	26865	20.74		
				846.5	27015	20.16		0
				816.5	26715	20.73		0
			24	831.5	26865	20.81		0
				846.5	27015	20.90		0
	10.0014		0	816.5	26715	20.81		0
	16-QAM		0	831.5	26865	20.84		0
				846.5	27015	20.55		0
		1000	_	816.5	26715	20.94		0
		12RB	6	831.5	26865	20.61		0
				846.5	27015	20.58		0
			10	816.5	26715	20.89		0
			13	831.5	26865	20.70		0
				846.5	27015	20.73		0
		25RB		816.5	26715	20.83		0
	25F		ווט	831.5	26865	20.74		0
				846.5	27015	20.58	21	0

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Page: 95 of 328

				FDD Band 26						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				815.5	26705	20.68	21	0		
			0	831.5	26865	20.78	21	0		
				847.5	27025	20.66	21	0		
				815.5	26705	20.82	21	0		
		1 RB	7	831.5	26865	20.65	21	0		
				847.5	27025	20.83	21	0		
				815.5	26705	20.84	21	0		
			14	831.5	26865	20.62	21	0		
				847.5	27025	20.68	21	0		
				815.5	26705	20.72	21	0		
	QPSK		0	831.5	26865	20.75	21	0		
				847.5	27025	20.53	21	0		
				815.5	26705	20.79	21	0		
		8RB	4	831.5	26865	20.66	21	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O		
				847.5	27025	20.63	21			
				815.5	26705	20.80	21	0		
			7	831.5	26865	20.62	21	0		
				847.5	27025	20.69	21			
				815.5	26705	20.79	21			
		15	RB	831.5	26865	20.70	21	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
3			Ť	847.5	27025	20.72	21			
			815.5	26705	20.89	21	_			
			0	831.5	26865	20.69	21			
				847.5	27025	20.59	21			
			_	815.5	26705	20.87	21			
		1 RB	7	831.5	26865	20.69	21	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				847.5	27025	20.60	21			
				815.5	26705	20.84	21	_		
			14	831.5	26865	20.45	21			
				847.5	27025	20.70	21			
	10.0014		0	815.5	26705	20.65	21	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	16-QAM		0	831.5	26865	20.84	21			
				847.5	27025	20.75	21			
		000		815.5	26705	20.84	21			
		8RB	4	831.5	26865	20.55	21			
				847.5	27025	20.62	21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
			7	815.5	26705	20.96	21			
			/	831.5	26865	20.66	21			
				847.5	27025	20.93	21			
		1 5	RR	815.5	26705	20.82	21			
	15F		ווט	831.5	26865	20.68	21			
				847.5	27025	20.66	21	U		

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Page: 96 of 328

	FDD Band 26											
				Do Dano 20			т					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				814.7	26697	20.79	21	0				
			0	831.5	26865	20.69	21	0				
				848.3	27033	20.73	21	0				
				814.7	26697	20.78	21	0				
		1 RB	2	831.5	26865	20.71	21	0				
				848.3	27033	20.76	21	0				
				814.7	26697	20.76	21	0				
			5	831.5	26865	20.70	21	0				
				848.3	27033	20.67	21	0				
				814.7	26697	20.71	21	0				
	QPSK		0	831.5	26865	20.67	21	0				
				848.3	27033	20.70	21	0				
				814.7	26697		21	0				
		3RB	2	831.5	26865	20.59	21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
				848.3	27033	20.63	21					
				814.7	26697	20.79	21					
			3	831.5	26865	20.73	21					
				848.3	27033	20.74	21	0				
				814.7	26697	20.75	21					
		6F	RB	831.5	26865			0				
1.4				848.3	27033							
				814.7	26697	20.48	21					
			0	831.5								
				848.3								
				814.7				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	831.5								
				848.3		1						
			_	814.7	Channel power (dBm) Tolerance (dBm) Allowed page 3 GPP(dl (dBm)) 26665 20.69 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_						
			5	831.5								
				848.3								
	40.044			814.7								
	16-QAM		0	831.5				Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
				848.3								
		000		814.7								
		3RB	2	831.5								
				848.3								
			_	814.7								
			3	831.5								
				848.3								
		255		814.7								
	6R		10	831.5								
				848.3	2/033	20.68	21	0				

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Page: 97 of 328

				FDD Band 30				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	2310	27710	16.79	17	0
		1 RB	25	2310	27710	16.64	17	0
			49	2310	27710	16.63	17	0
	QPSK		0	2310	27710	16.83	17	0
		25 RB	12	2310	27710	16.79	17	0
			25	2310	27710	16.65	17 0	0
10		50RB		2310	27710	16.96	17	0
10			0	2310	27710	16.81	17	0
		1 RB	25	2310	27710	16.80	17	0
			49	2310	27710	16.83	17	0
	16-QAM		0	2310	27710	16.66	17	0
		25 RB	12	2310	27710	16.55	17	0
			25	2310	27710	16.45	17	0
		50	RB	2310	27710	16.89	17	0

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Page: 98 of 328

				FDD Band 30				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance	MPR Allowed per
				2307.5	27685	16.45	(dBm)	
			0	2310	27710	16.37		•
			U	2312.5	27710	16.37		
				2307.5	27685	16.36		
		1 RB	12	2310	27710	16.42		
		1116	12	2312.5	27735	16.06		
				2307.5	27685	16.57		_
			24					
			27					
	QPSK		0					
	α. σ. τ		Ů					
						5 16.32 17	•	
		12RB	6					
			13					
				2312.5				
				2307.5	27685		17	
		25	RB	2310	27710	16.34	17	0
_				2312.5	27735	16.32	17	0
5				2307.5	27685	16.35	17	0
			0	2310	27710	16.71	17	0
				2312.5	27735	16.55	17 0 17 0 17 0 17 0 17 0 17 0 17 0 17 0	
				2307.5	27685	16.93	17	0
		1 RB	12	2310	27710	16.41 17 0 16.35 17 0 16.28 17 0 16.52 17 0 16.31 17 0 16.49 17 0 16.34 17 0 16.35 17 0 16.71 17 0 16.55 17 0 16.93 17 0 16.73 17 0 16.70 17 0 16.19 17 0 16.35 17 0 16.63 17 0	0	
				2312.5	27735	16.73	17	0
				2307.5	27685	16.70	17	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O O
			24	2310	27710	16.19	17	0
				2312.5	27735	16.35	17	0
				2307.5	27685	16.63	17	0
	16-QAM		0	2310	27710	16.55	17	0
				2312.5	27735	16.53	17	0
				2307.5	27685	16.50	17	0
		12RB	6	2310	27710	16.45	17	0
				2312.5	27735	16.36	17	0
				2307.5	27685	16.51	17	0
			13	2310	27710	16.52		
				2312.5	27735	16.21		
				2307.5	27685	16.43	17	0
		25	RB	2310	27710	16.36	17	
				2312.5	27735	16.25	17	0

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Page: 99 of 328

				FDD Band 38					
				Do Dana 30			Torget		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
				2580	37850	19.96	20	0	
			0	2595	38000	19.72	20	0	
				2610	38150	19.91	20	0	
				2580	37850	19.89	20	0	
		1 RB	50	2595	38000	19.83	20	0	
				2610	38150	19.86	20	0	
				2580	37850	19.91	20	0	
			99	2595	38000	19.87	20	0	
				2610	38150	19.90	20	0	
				2580	37850	19.83	20	0	
	QPSK		0	2595			20	0	
				2610		Channel power (dBm) Conducted power (dBm) Max. Tolerance (dBm) Allowed per 3GPP(dB) 37850 19.96 20 0 38000 19.72 20 0 38150 19.91 20 0 38000 19.89 20 0 38150 19.86 20 0 38550 19.91 20 0 38000 19.87 20 0 38150 19.90 20 0 38150 19.90 20 0 38150 19.90 20 0 38150 19.90 20 0 38150 19.71 20 0 38150 19.71 20 0 38150 19.72 20 0 38150 19.76 20 0 38150 19.75 20 0 38150 19.78 20 0 38150 19.78 20 0	0		
				2580					
		50RB	25	2595					
				2610					
				2580					
			50	2595				3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
				2610					
		400		2580					
		10)RB	2595					
20				2610					
			0	2580				_	
				2595				_	
				2610					
		1 RB	50	2580					
		IND	50	2595					
				2610 2580					
			99	2595				_	
			33	2610					
				2580					
	16-QAM		0	2595					
	10 0,		ŭ	2610				_	
				2580					
		50RB	25	2595					
		· · · -		2610					
				2580					
			50	2595					
				2610					
				2580					
		100)RB	2595					
				2610	38150	19.76	20	0	

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Page: 100 of 328

				FDD Band 38					
DIA//Adb->	Modulatia	DD Ci	DD Offers	Frequency	Charrel	Conducted	Target Power +	MPR	
BW(Mhz)	Modulation	RB Size	RB Offset	(MHz)	Channel	power (dBm)	Max. Tolerance (dBm)	3GPP(dB)	
				2577.5	37825	19.93	20	0	
			0	2595	38000	19.87	20	0	
				2612.5	38175	19.88	20	0	
				2577.5	37825	19.87	20	0	
		1 RB	36	2595	38000	19.88	20	0	
				2612.5	38175	19.90			
				2577.5	37825	19.82			
			74	2595	38000	19.89			
				2612.5	38175	19.88		er + (xx. Allowed per ance m) O	
	ODOK			2577.5	37825	19.91			
	QPSK		0	2595	38175 19.83 20				
				2612.5		19.83 20 C 19.85 20 C	•		
		36RB	18	2577.5					
				2595	38000	19.89			
				2612.5	38175	19.83			
			27	2577.5	37825	19.85			
			37	2595	38000	19.81		0 0 0 0 0 0 0 0 0 0 0	
				2612.5	38175	19.82 19.79		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		75RB		2577.5 2595	37825 38000	19.79			
		/3	110	2612.5	38175	19.81			
15			Ī	2577.5	37825	19.79			
			0	2595	38000	19.84			
				2612.5	38175	19.87			
				2577.5	37825	19.83			
		1 RB	36	2595	38000	19.88	Power + Max. Tolerance (dBm) 20		
				2612.5	38175	19.87			
				2577.5	37825	19.75			
			74	2595	38000	19.86		0	
				2612.5	38175	19.87			
				2577.5	37825	19.85	20	0	
	16-QAM		0	2595	38000	19.88			
				2612.5	38175	19.87	20	0	
				2577.5	37825	19.84	20	0	
		36RB	18	2595	38000	19.87	20	0	
				2612.5	38175	19.87	20	0	
				2577.5	37825	19.82	20	0	
			37	2595	38000	19.86	20	0	
				2612.5	38175	19.86	20	0	
				2577.5	37825	19.81	20	0	
		75	RB	2595	38000	19.87	20	0	
				2612.5	38175	19.85	20	0	

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Page: 101 of 328

	FDD Band 38													
				Frequency		Conducted	Target Power +	MPR						
BW(Mhz)	Modulation	RB Size	RB Offset	(MHz)	Channel	power (dBm)	Max. Tolerance (dBm)	Allowed per 3GPP(dB)						
				2575	37800	19.93	20	0						
			0	2595	38000	19.95	20	0						
				2615	38200	19.94	20	0						
				2575	37800	19.87	20	0						
		1 RB	25	2595	38000	19.92	20	0						
				2615	38200	19.92	20							
				2575	37800	19.88	20							
			49	2595	38000	19.86	20							
				2615	38200	19.85	20							
				2575	37800	19.83	20							
	QPSK		0	2595	38000	19.86								
				2615	38200	19.86								
				2575	37800	19.80								
		25RB	12	2595	38000	19.81		20 0 0 20 0 20 0 20 0 20 0 20 0 20 0 2						
				2615	38200	19.84								
				2575	37800	19.80		+ MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
			25	2595	38000									
				2615	38200									
		50	DD	2575	37800									
		50	RB	2595	38000		19.86 20 19.79 20							
10				2615	38200									
			0	2575	37800									
			U	2595	38000	19.92	20							
				2615	38200	19.90	20							
		1 RB	25	2575	37800	19.83	20							
		IND	25	2595	38000	19.87	20							
				2615 2575	38200 37800	19.86 19.84	20 20							
			49	2575 2595		19.84	20							
			49	2615	38000 38200	19.91	20							
				2575	37800	19.86	20	e Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O O						
	16-QAM		0	2575	38000	19.87	20							
	10-QAIVI			2615	38200	19.86	20							
				2575	37800	19.85	20							
		25RB	12	2575	38000	19.88	20							
		20110	'-	2615	38200	19.85	20							
				2575	37800	19.86	20							
			25	2595	38000	19.86	20							
				2615	38200	19.86	20							
			l	2575	37800	19.83	20							
		50	RB	2595	38000	19.87	20							
				2615	38200	19.81	20							

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Page: 102 of 328

				FDD Band 38						
				. 55 5414 50			Target			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				2572.5	37775	19.91	20	0		
			0	2595	38000	19.93	20	0		
				2617.5	38225	19.95	20	0		
				2572.5	37775	19.89	20	0		
		1 RB	12	2595	38000	19.90	20	0		
				2617.5	38225	19.94	20	0		
				2572.5	37775	19.91	20	0		
			24		38000		20	0		
					38225	1	20	0		
	QPSK		0							
						nannel Conducted power (dBm) Power + Max. Tolerance (dBm) MPR Allowed per 3GPP(dB) 17775 19.91 20 0 18000 19.93 20 0 18000 19.95 20 0 18000 19.90 20 0 18000 19.90 20 0 18000 19.91 20 0 18000 19.92 20 0 18000 19.92 20 0 18000 19.92 20 0 18000 19.97 20 0 18000 19.87 20 0 18000 19.87 20 0 19.83 20 0 0 19.84 20 0 0 19.85 20 0 0 19.87 20 0 0 19.87 20 0 0 19.87 20 0 0 19.82	•			
			_							
		12RB	6							
							_			
			13					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		0.5	DD					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		25	RB							
5							_			
			0							
			U				19.84 20 19.88 20 19.94 20 19.93 20			
		1 RB	12	RB Offset Frequency (MHz) Channel Conducted power (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm) Power + Max. Tolerance (dBm)						
		1110	12			19.84 20 0 19.88 20 0 19.85 20 0 19.87 20 0 19.88 20 0 19.85 20 0 19.84 20 0 19.88 20 0 19.94 20 0 19.93 20 0 19.90 20 0 19.89 20 0 19.93 20 0 19.94 20 0 19.94 20 0 19.94 20 0 19.94 20 0 19.95 20 0 19.85 20 0				
			24			+				
	16-QAM		0							
						1		-		
		12RB	6							
			13							
							20	0		
		25	RB	2595	38000	19.87	20	0		
				2617.5	38225	19.88	20	0		

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Page: 103 of 328

					TD	D Band 41			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dE	
				2506	39750	18.63	19	0	
				2549.5	40185	18.87	19	0	
			0	2593	40620	18.65	19	0	
				2636.5	41055	18.97	19	0	
				2680	41490	18.62	19		
				2506 2549.5	39750 40185	18.47 18.89	19 19		
		1 RB	50	2549.5	40620	18.60	19	0	
		1115	00	2636.5	41055	18.98	19		
				2680	41490	18.37	19	0	
				2506	39750	18.56	19		
				2549.5	40185	18.90	19		
			99	2593	40620	18.65	19		
				2636.5 2680	41055	18.82	19 19		
				2506	41490 39750	18.37 18.46	19		
				2549.5	40185	18.70	19		
	QPSK		0	2593	40620	18.50	19		
				2636.5	41055	18.82	19	0	
				2680	41490	18.24	19		
				2506	39750	18.37	19		
		50 RB	25	2549.5	40185	18.76	19		
		30 NB	25	2593 2636.5	40620 41055	18.51 18.85	19 19		
				2680	41490	18.26	19		
				2506	39750	18.34	19		
				2549.5	40185	18.76	19		
			50	2593	40620	18.51	19	0	
				2636.5	41055	18.74	19		
			2680	41490	18.30	19			
				2506	39750	18.46	19		
		100	ORB	2549.5	40185	18.76	19		
		100	טחט	2593 2636.5	40620 41055	18.54 18.86	19 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
				2680	41490	18.34	19		
20				2506	39750	18.52	19		
			0	2549.5	40185	18.81	19	0	
				2593	40620	18.62	19		
				2636.5	41055	18.91	19		
				2680	41490 39750	18.33	19 19		
				2506 2549.5	40185	18.44 18.82	19		
		1 RB	50	2593	40620	18.55	19		
		1115	00	2636.5	41055	18.84	19		
				2680	41490	18.28	19	0	
				2506	39750	18.52	19		
				2549.5	40185	18.85	19		
			99	2593	40620	18.61	19		
				2636.5 2680	41055 41490	18.69 18.28	19 19		
				2506	39750	18.28 18.47	19		
				2549.5	40185	18.75	19		
	16-QAM		0	2593	40620	18.55	19		
				2636.5	41055	18.79	19		
				2680	41490	18.24	19		
				2506	39750	18.39	19		
		E0 DD	05	2549.5	40185	18.80	19		
		50 RB	25	2593	40620 41055	18.54 18.81	19 19		
				2636.5 2680	41055	18.25	19		
				2506	39750	18.39	19		
				2549.5	40185	18.82	19		
			50	2593	40620	18.53	19		
				2636.5	41055	18.79	19		
				2680	41490	18.28	19		
				2506	39750	18.46	19	0	
		. م. ر	nDD.	2549.5	40185	18.80	19	0	
		100	ORB	2593	40620	18.57	19	0 0	
	I			2636.5 2680	41055 41490	18.83 18.35	19 19	0	

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Page: 104 of 328

					TD	D Band 41							
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(d					
				2503.5	39725	18.56	19	0					
				2548.3	40173	18.78	19	0					
			0	2593	40620	18.58	19	0					
				2637.8	41068	18.89	19	0					
				2682.5	41515	18.32	19	0					
				2503.5	39725	18.49	19	0					
		4 00	00	2548.3	40173	18.79	19	0					
		1 RB	36	2593	40620	18.57	19	0					
				2637.8	41068	18.94	19	0					
				2682.5	41515	18.33	19	0					
				2503.5 2548.3	39725 40173	18.44 18.84	19 19	0 0					
			74	2546.3	40620	18.56	19	0					
			/4	2637.8	41068	18.73	19	0					
				2682.5	41515	18.37	19	0					
				2503.5	39725	18.53	19	0					
				2548.3	40173	18.77	19	0					
	QPSK		0	2593	40620	18.56	19	0					
			Ü	2637.8	41068	18.86	19	0					
		36 RB		2682.5	41515	18.29	19	0					
				2503.5	39725	18.48	19	0					
			36 RB	36 RB		2548.3	40173	18.77	19	0			
					36 RB	36 RB	36 RB	18	2593	40620	18.57	19	0
								2637.8	41068	18.91	19	0	
								2682.5	41515	18.29	19	0	
							2503.5	39725	18.44	19	0		
				2548.3	40173	18.82	19	0					
				37	2593	40620	18.57	19	0				
				2637.8	41068	18.83	19	0					
			2682.5	41515	18.31	19	0						
			•	2503.5	39725	18.45	19	0					
				2548.3	40173	18.73	19	0					
		75	RB	2593	40620	18.55	19	0					
				2637.8	41068	18.86	19	0					
15			-	2682.5	41515	18.30	19	0					
				2503.5	39725	18.57	19	0					
						2548.3	40173	18.80	19	0			
			0	2593	40620	18.59	19	0					
				2637.8	41068	18.87	19	0					
				2682.5	41515	18.28	19	0					
				2503.5	39725	18.52	19	0					
				2548.3	40173	18.78	19	0					
		1 RB	36	2593	40620	18.59	19	0					
				2637.8	41068	18.93	19	0					
				2682.5	41515	18.28	19	0					
				2503.5	39725	18.47	19	0					
			74	2548.3	40173	18.85	19	0					
			74	2593	40620	18.61	19	0					
				2637.8 2682.5	41068 41515	18.74	19 19	0					
			-	2682.5 2503.5	41515 39725	18.36 18.56	19	0					
				2548.3	40173	18.80	19	0					
	16-QAM		0	2593	40620	18.61	19	0					
	10 00 1111		Ů	2637.8	41068	18.87	19	0					
				2682.5	41515	18.33	19	0					
			-	2503.5	39725	18.56	19	0					
				2548.3	40173	18.80	19	0					
		36 RB	18	2593	40620	18.61	19	0					
				2637.8	41068	18.96	19	0					
				2682.5	41515	18.32	19	0					
				2503.5	39725	18.45	19	0					
				2548.3	40173	18.86	19	0					
			37	2593	40620	18.60	19	0					
				2637.8	41068	18.82	19	0					
				2682.5	41515	18.34	19	0					
			•	2503.5	39725	18.52	19	0					
				2548.3	40173	18.76	19	0					
		75	SRB	2593	40620	18.60	19	0					
				2637.8	41068	18.85	19	0					
		•		2682.5	41515	18.40	19	0					

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Page: 105 of 328

					TD	D Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB						
				2501	39700	18.51	19	0						
				2547	40160	18.75	19	0						
			0	2593	40620	18.53	19	0						
				2639	41080	18.90								
				2685	41540	18.34		_						
				2501 2547	39700 40160	18.45 18.71								
		1 RB	25	2593	40620	18.52		Delerance (dBm)						
		1110		2639	41080	18.84								
				2685	41540	18.33								
				2501	39700	18.44	19	0						
				2547	40160	18.79								
			49	2593	40620	18.54	19							
				2639	41080	18.81								
				2685	41540 39700	18.39								
				2501 2547	40160	18.43 18.64								
	QPSK		0	2593	40620	18.45								
		25 RB		2639	41080	18.83								
				2685	41540	18.22								
				2501	39700	18.40	19	0						
			25 RB	25 RB	25 RB	25 RB	25 RB	25 PP		2547	40160	18.63		
								12	2593	40620	18.43			
									2639	41080	18.75			
						2685	41540	18.26						
							2501 2547	39700 40160	18.39 18.71					
			25	2593	40620	18.44								
				2639	41080	18.69								
				2685	41540	18.25								
			•	2501	39700	18.38	19	0						
				2547	40160	18.59	19	0						
		50	RB	2593	40620	18.41								
						2639	41080	18.71						
10			ı	2685 2501	41540 39700	18.31 18.48								
				2547	40160	18.67								
			0	2593	40620	18.50								
			•	2639	41080	18.79								
				2685	41540	18.30		19 0 19 0 19 0 19 0 19 0 19 0						
				2501	39700	18.45	19	0						
				2547	40160	18.65								
		1 RB	36	2593	40620	18.46								
				2639	41080	18.74								
			<u> </u>	2685	41540	18.28								
				2501 2547	39700 40160	18.39 18.73								
			74	2593	40620	18.51								
			'	2639	41080	18.71								
			<u> </u>	2685	41540	18.34								
				2501	39700	18.45								
				2547	40160	18.67								
	16-QAM		0	2593	40620	18.49								
				2639	41080	18.87								
			<u> </u>	2685	41540	18.24								
				2501 2547	39700 40160	18.43 18.66								
		36 RB	18	2593	40620	18.49								
			"	2639	41080	18.79								
				2685	41540	18.29								
				2501	39700	18.43								
				2547	40160	18.74								
			37	2593	40620	18.48								
				2639	41080	18.73	19	0						
				2685	41540	18.29	19	0						
				2501	39700	18.44	19	0						
		75	RB	2547	40160 40620	18.64	19 19	0						
		/5	טוו	2593 2639	40620	18.45 18.77	19	0						
			<u> </u>	2003	71000	10.77	13	U						

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Page: 106 of 328

					TD	D Band 41											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(d									
				2498.5	39675	18.51	19	0									
				2547.8	40148	18.72	19	0									
			0	2593	40620	18.52		0									
				2640.3	41093												
				2687.5	41565												
				2498.5 2547.8	39675 40148												
		1 RB	12	2593	40620	18.52	Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note										
				2640.3	41093	18.82											
				2687.5	41565	18.34											
				2498.5	39675	18.48	19	0									
				2547.8	40148	18.72											
			24	2593	40620	18.54											
				2640.3	41093	18.78											
				2687.5	41565												
				2498.5 2547.8	39675 40148												
	QPSK		0	2593	40620												
	Q. 0			2640.3	41093	18.76											
				2687.5	41565	18.28											
				2498.5	39675	18.42		0									
		12 RB	12 RB		2547.8	40148	18.64	19	0								
				12 RB	12 RB	12 RB	6	2593	40620	18.48	19	0					
				2640.3	41093	18.74											
				-		2687.5	41565	18.25									
						2498.5	39675										
						2547.8	40148										
		13	2593	40620													
				2640.3	41093												
			2687.5 2498.5	41565 39675													
			2547.8	40148													
		25	irb	2593	40620			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
				2640.3	41093												
_				2687.5	41565												
5			1	2498.5	39675	18.52		0									
													2547.8	40148	18.72	19	0
			0	2593	40620	18.55	19	0									
				2640.3	41093	18.90	18.41 19 0 18.66 19 0 18.49 19 0 18.70 19 0 18.26 19 0 18.42 19 0 18.64 19 0 18.77 19 0 18.29 19 0 18.52 19 0 18.72 19 0 18.55 19 0 18.37 19 0 18.37 19 0 18.71 19 0 18.51 19 0 18.33 19 0 18.36 19 0										
				2687.5	41565												
				2498.5	39675												
		4.00	10	2547.8	40148												
		1 RB	12	2593 2640.3	40620												
				2640.3	41093 41565												
				2498.5	39675												
				2547.8	40148												
			24	2593	40620	18.55											
				2640.3	41093	18.78											
				2687.5	41565	18.44											
				2498.5	39675	18.39		0									
				2547.8	40148	18.63	19	0									
	16-QAM		0	2593	40620	18.47											
				2640.3	41093	18.72											
				2687.5	41565	18.28											
				2498.5	39675	18.37											
		10.55	_	2547.8	40148	18.60											
		12 RB	6	2593	40620												
				2640.3 2687.5	41093												
			-	2687.5 2498.5	41565 39675												
				2547.8	40148												
			13	2547.8	40620	18.46	19	0									
			13	2640.3	41093	18.68	19	0									
				2687.5	41565	18.27	19	0									
			1	2498.5	39675	18.44	19	0									
				2547.8	40148	18.67	19	0									
		25	iRB	2593	40620	18.48	19	0									
				2640.3	41093	18.76	19	0									
	1			2687.5	41565	18.32	19	0									

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Page: 107 of 328

				FDD Band 66				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1720	132072	16.68	17.5	0
			0	1745	132322	17.15	17.5	0
				1770	132572	17.39	17.5	0
				1720	132072	17.34	17.5	0
		1 RB	50	1745	132322	17.23	17.5	0
				1770	132572	17.22	17.5	0
				1720	132072	17.19	17.5	0
			99	1745	132322	17.02	17.5	0
				1770	132572	17.47	17.5	0
				1720	132072	17.16	17.5	0
	QPSK		0	1745	132322	17.09	17.5	0
				1770	132572	17.39	17.5	0
				1720	132072	17.19	17.5	0
		50RB	25	1745	132322	17.22	17.22 17.5	0
				1770	132572	17.22	17.5	Tolerance (dBm) 3GPP(dB) 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 </td
				1720	132072	17.16		
			50	1745	132322	17.41	17.5	
				1770	132572	17.31	17.5	0
				1720	132072	17.36		0
		100)RB	1745	132322	17.38	17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0 17.5 0	
20				1770	132572	17.45		0
_~				1720	132072	16.82		
			0	1745	132322	16.75		
				1770	132572	17.40		Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1720	132072	16.97		0
		1 RB	50	1745	132322	16.42		Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O
				1770	132572	17.26		
				1720	132072	17.16		
			99	1745	132322	17.30		ver + ax. MPR Allowed per 3GPP(dB) 3m) 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 0 7.5 <tr< td=""></tr<>
				1770	132572	17.15		
	40.0			1720	132072	16.49		
	16-QAM		0	1745	132322	16.35		
				1770	132572	16.73		
		5055		1720	132072	16.59		
		50RB	25	1745	132322	16.45		
				1770	132572	16.62		
			F.	1720	132072	16.50	17.5	
			50	1745	132322	16.73	17.5	
				1770	132572	16.63	17.5	
		400	אחר	1720	132072	16.72	17.5	
		100	ORB	1745	132322	16.75	17.5	
				1770	132572	16.86	17.5	0

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Page: 108 of 328

				FDD Band 66					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
				1717.5	132047	16.17	17.5	0	
			0	1745	132322	16.52	17.5	0	
				1772.5	132597	16.92	17.5	0	
				1717.5	132047	16.63	17.5	0	
		1 RB	36	1745	132322	16.57	17.5	0	
				1772.5	132597	16.66	17.5	0	
				1717.5	132047	16.61	17.5	0	
			74	1745	132322	16.77	17.5	0	
				1772.5	132597	16.83	17.5	0	
				1717.5	132047	16.53	17.5	0	
	QPSK		0	1745	132322	16.52	17.5	0	
				1772.5	132597	16.70	17.5	0	
				1717.5	132047	16.63 17.5	0		
		36RB	18	1745	132322	16.64	17.5	0	
				1772.5	132597	16.86	17.5	0	
				1717.5	132047	16.69	17.5	0	
			37	1745	132322	16.87	17.5	5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0	
				1772.5	132597	16.73	17.5	0	
				1717.5	132047	16.70	17.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		75	RB	1745	132322	16.78	17.5		
15				1772.5	132597	16.88	17.5	0	
			•	1717.5	132047				
			0	1745	132322				
				1772.5	132597				
				1717.5	132047	97 16.66 17.5 0 47 16.61 17.5 0 97 16.83 17.5 0 97 16.83 17.5 0 47 16.53 17.5 0 97 16.70 17.5 0 97 16.63 17.5 0 47 16.63 17.5 0 97 16.86 17.5 0 97 16.86 17.5 0 97 16.87 17.5 0 97 16.73 17.5 0 97 16.73 17.5 0 97 16.88 17.5 0 97 16.88 17.5 0 97 16.88 17.5 0 97 17.38 17.5 0 97 17.38 17.5 0 97 17.20 17.5 0 97 17.45 17.5 0 97 17.45 17.5 0 97 17			
		1 RB	36	1745	132322		16.63 17.5 0 16.57 17.5 0 16.66 17.5 0 16.61 17.5 0 16.61 17.5 0 16.77 17.5 0 16.83 17.5 0 16.52 17.5 0 16.52 17.5 0 16.70 17.5 0 16.63 17.5 0 16.64 17.5 0 16.69 17.5 0 16.86 17.5 0 16.87 17.5 0 16.87 17.5 0 16.73 17.5 0 16.74 17.5 0 16.78 17.5 0 16.79 17.5 0 16.88 17.5 0 17.10 17.5 0 17.10 17.5 0 17.13 17.5 0 17.45 17.5		
				1772.5	132597				
				1717.5	132047				
			74	1745	132322				
				1772.5	132597				
	16 0 4 14			1717.5	132047				
	16-QAM		0	1745	132322				
				1772.5	132597				
		2600	10	1717.5	132047				
		36RB	18	1745	132322				
				1772.5	132597				
			37	1717.5	132047				
			3/	1745	132322				
				1772.5 1717.5	132597 132047				
		75	RB	1717.5	132322				
		/3	י וו	1745	132322	16.70	17.5	0	
				1772.0	132391	10.76	17.3		

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SGS Taiwan Ltd.



Page: 109 of 328

				FDD Band 66				
				. DD Dana 00			Torest	
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1715	132022	16.36	17.5	0
			0	1745	132322	16.34	17.5	0
				1775	132622	16.89	17.5	0
				1715	132022	16.47	17.5	0
		1 RB	25	1745	132322	16.49	17.5	0
				1775	132622	16.54	17.5	0
				1715	132022	16.61	17.5	0
			49	1745	132322	16.66	17.5	0
				1775	132622	16.68	17.5	0
				1715	132022	16.40	17.5	0
	QPSK		0	1745	132322	16.40	17.5	0
				1775	132622	16.72	17.5	0
	25RB	12	1715	132022	16.47	17.5	0	
			1745	132322	16.46	17.5	0	
				1775	132622	16.52	17.5	0
				1715	132022	16.51	17.5	0
			25	1745	132322	16.64	17.5	0
				1775	132622	16.63	17.5	0
				1715	132022	16.58	17.5	0
		50	RB	1745	132322	16.61	17.5	0
10				1775	132622	16.76	17.5	0
			0	1715	132022	16.82	17.5	0
				1745	132322	16.66	17.5	0
				1775	132622	17.40	17.5	0
				1715	132022	16.67	17.5	0
		1 RB	25	1745	132322	16.51	17.5	0
				1775	132622	16.95	17.5	0
			4.5	1715	132022	16.74	17.5	0
			49	1745	132322	17.14	17.5	0
				1775	132622	17.16	17.5	0
	40.044		_	1715	132022	16.34	17.5	0
	16-QAM		0	1745	132322	16.36	17.5	0
				1775	132622	16.53	17.5	0
		0555	40	1715	132022	16.39	17.5	0
		25RB	12	1745	132322	16.38	17.5	0
				1775	132622	16.48	17.5	0
			0.5	1715	132022	16.41	17.5	0
			25	1745	132322	16.54	17.5	0
				1775	132622	16.44	17.5	0
		F.	DD	1715	132022	16.51	17.5	0
		50	RB	1745	132322	16.62	17.5	0
				1775	132622	16.79	17.5	0

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Page: 110 of 328

				FDD Band 66				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency	Channel	Conducted	Target Power + Max.	MPR Allowed per
BVV (WIIIZ)	Wodalation	TID GIZO	TID OHOCE	(MHz)	Onamici	power (dBm)	Tolerance (dBm)	3GPP(dB)
				1712.5	131997	16.49	17.5	0
			0	1745	132322	16.83	17.5	0
				1777.5	132647	16.71	17.5	0
				1712.5	131997	16.65	17.5	0
		1 RB	12	1745	132322	16.92	17.5	0
				1777.5	132647	16.76	17.5	0
				1712.5	131997	16.83	17.5	0
			24	1745	132322	16.46	17.5	0
				1777.5	132647	17.16	17.5	0
	ODOK		0	1712.5	131997	16.41	17.5	0
	QPSK		0	1745	132322	16.65	17.5	0
				1777.5	132647	16.71	17.5	0
	12RB	6	1712.5 1745	131997	16.65	17.5	0	
				132322	16.59 16.80	17.5 17.5		
			1777.5 1712.5	132647 131997	16.60	17.5	0	
			13	1712.5	132322	16.62	17.5	0
			10	1777.5	132647	16.94	17.5	0
				1717.5	131997	16.70	17.5	0
		25	RB	1745	132322	16.84	17.5	0
				1777.5	132647	16.96	17.5	0
5				1712.5	131997	16.91	17.5	0
			0	1745	132322	16.51	17.5	0
			Ů	1777.5	132647	17.17	17.5	0
				1712.5	131997	16.94	17.5	0
		1 RB	12	1745	132322	16.59	17.5	0
				1777.5	132647	17.19	17.5	0
				1712.5	131997	17.45	17.5	0
			24	1745	132322	17.37	17.5	0
				1777.5	132647	16.89	17.5	0
				1712.5	131997	16.44	17.5	0
	16-QAM		0	1745	132322	16.46	17.5	0
				1777.5	132647	16.73	17.5	0
				1712.5	131997	16.57	17.5	0
		12RB	6	1745	132322	16.62	17.5	0
				1777.5	132647	16.71	17.5	0
				1712.5	131997	16.53	17.5	0
			13	1745	132322	16.81	17.5	0
				1777.5	132647	16.79	17.5	0
				1712.5	131997	16.64	17.5	0
		25	RB	1745	132322	16.73	17.5	0
				1777.5	132647	16.77	17.5	0

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Page: 111 of 328

				FDD Band 66				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1711.5	131987	16.04	17.5	0
			0	1745	132322	16.49	17.5	0
				1778.5	132657	16.61	17.5	0
				1711.5	131987	16.10	17.5	0
		1 RB	7	1745	132322	16.25	17.5	0
				1778.5	132657	16.54	17.5	0
				1711.5	131987	16.05	17.5	0
			14	1745	132322	16.56	17.5	0
				1778.5	132657	16.79	17.5	0
				1711.5	131987	16.25	17.5	0
	QPSK		0	1745	132322	16.23	17.5	0
			1778.5	132657	16.40	17.5	0	
	8RB	4	1711.5	131987	16.01	17.5	0	
			1745	132322	16.43	17.5	0	
			1778.5	132657	16.56	17.5	0	
				1711.5	131987	16.25	17.5	0
			7	1745	132322	16.24	17.5	0
			1778.5	132657	16.41	17.5	0	
				1711.5	131987	16.24	17.5	0
		15	RB	1745	132322	16.39	17.5	0
3				1778.5	132657	16.57	17.5	0
			0	1711.5	131987	16.67	17.5	0
				1745	132322	16.43	17.5	0
				1778.5	132657	17.41	17.5	0
			_	1711.5	131987	16.85	17.5	0
		1 RB	7	1745	132322	16.13	17.5	0
				1778.5	132657	17.28	17.5	0
				1711.5	131987	16.38	17.5	0
			14	1745	132322	16.70	17.5	0
				1778.5	132657	16.94	17.5	0
	10.0014		0	1711.5	131987	16.10	17.5	0
	16-QAM		0	1745	132322	16.08	17.5	0
				1778.5	132657	16.67	17.5	0
		000	4	1711.5	131987	15.75	17.5	0
		8RB	4	1745	132322	16.22	17.5	0
				1778.5	132657	16.43	17.5	0
			7	1711.5	131987	16.03	17.5	0
			7	1745	132322	16.02	17.5	0
				1778.5	132657	16.24	17.5	0
		15	RB	1711.5	131987	16.12	17.5	0
		15	ווט	1745	132322	16.21	17.5	0
			1778.5	132657	16.48	17.5	U	

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Page: 112 of 328

				FDD Band 66				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1710.7	131979	16.56	17.5	0
			0	1745	132322	16.65	17.5	0
				1779.3	132665	17.06	17.5	0
				1710.7	131979	16.65	17.5	0
	1	1 RB	2	1745	132322	16.68	17.5	0
				1779.3	132665	16.89	17.5	0
				1710.7	131979	16.46	17.5	0
			5	1745	132322	16.56	17.5	0
				1779.3	132665	16.74	17.5	0
				1710.7	131979	16.48	17.5	0
	QPSK		0	1745	132322	16.71	17.5	0
			1779.3	132665	16.84	17.5	0	
	3RB	2	1710.7	131979	16.41	17.5	0	
			1745	132322	16.67	17.5	0	
				1779.3	132665	16.37	17.5	0
				1710.7	131979	16.39	17.5	0
			3	1745	132322	16.55	17.5	0
				1779.3	132665	17.00	17.5	0
			-55		131979	16.46	17.5	0
		6F	RB	1745	132322	16.55	17.5	0
1.4				1779.3	132665	16.60	17.5	0
			0	1710.7	131979	16.86	17.5	0
				1745	132322	17.00	17.5	0
				1779.3	132665	17.41	17.5	0
			_	1710.7	131979	16.82	17.5	0
		1 RB	2	1745	132322	17.20	17.5	0
				1779.3	132665	16.99	17.5	0
			_	1710.7	131979	16.95	17.5	0
			5	1745	132322	17.21	17.5	0
				1779.3	132665	17.40	17.5	0
				1710.7	131979	16.18	17.5	0
	16-QAM		0	1745	132322	16.74	17.5	0
				1779.3	132665	17.01	17.5	0
		000		1710.7	131979	16.42	17.5	0
		3RB	2	1745	132322	16.66	17.5	0
				1779.3	132665	16.98	17.5	0
				1710.7	131979	16.37	17.5	0
			3	1745	132322	16.80	17.5	0
				1779.3	132665	17.03	17.5	0
		^1	סס	1710.7	131979	16.48	17.5	0
		61	RB	1745	132322	16.38	17.5	0
				1779.3	132665	16.64	17.5	0

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Page: 113 of 328

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

Thirtion 2.11 and gri (2011) 4011) ac (2011) 4011 form of the conducted power table.									
Antenna	SI	SO	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						
WLAN802.11ac	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						

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SGS Taiwan Ltd.



Page: 114 of 328

		Mair	n Antenna			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance	Average power (dBm)
		1	2412		16.50	16.47
		2	2417		17.50	17.41
	802.11b	6	2437	1Mbps	17.50	17.44
		10	2457		17.50	17.43
		11	2462		16.50	16.24
		1	2412		14.00	13.88
2450 MHz	802.11g	6	2437	6Mbps	17.50	17.43
2430 WII IZ		11	2462		12.50	12.31
		1	2412		14.00	13.86
	802.11n-HT20	6	2437	MCS0	17.50	17.40
		11	2462		12.50	12.50
		3	2422		13.50	13.32
	802.11n-HT40	6	2437	MCS0	16.50	16.18
		9	2452		12.50	12.48

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SGS Taiwan Ltd.



Page: 115 of 328

		Mair	n Antenna			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance	Average power (dBm)
		36	5180	6Mbps	14.00	13.95
	802.11a	40	5200		16.00	15.65
	002.11a	44	5220	Olvibps	16.00	15.82
		48	5240		16.00	15.67
	802.11n-HT20	36	5180	MCS0	14.00	13.76
		40	5200		16.00	15.97
		44	5220		16.00	15.82
		48	5240		16.00	15.80
5.15-5.25 GHz		36	5180		14.00	13.69
	802.11n-VHT20	40	5200	MCS0	16.00	15.81
	002.1111-V11120	44	5220	IVIOOU	16.00	15.77
		48	5240		16.00	15.70
	802.11n-HT40	38	5190	MCS0	12.00	11.85
	002.1111-11140	46	5230	IVICOU	16.50	16.48
	802.11n-VHT40	38	5190	MCS0	12.00	11.78
		46	5230	IVICOU	16.50	16.47
	802.11n-VHT80	42	5210	MCS0	13.50	13.25

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Page: 116 of 328

		Mair	n Antenna			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance	Average power (dBm)
		52	5260		16.00	15.79
	000 110	56	5280	6Mbps	16.00	15.76
	802.11a	60	5300		16.00	15.90
		64	5320		13.50	13.44
	802.11n-HT20	52	5260	MCS0	16.00	15.99
		56	5280		16.00	15.93
		60	5300		16.00	15.97
		64	5320		13.50	13.25
5.25-5.35 GHz		52	5260		16.00	15.71
	802.11n-VHT20	56	5280	MCS0	16.00	15.66
	002.1111-111120	60	5300	IVICOU	16.00	15.99
		64	5320		13.50	13.43
	802.11n-HT40	54	5270	MCS0	16.50	16.47
	002.1111-11140	62	5310	IVICOU	13.50	13.17
	802.11n-VHT40	54	5270	MCS0	16.50	16.20
		62	5310	IVICOU	13.50	13.38
	802.11n-VHT80	58	5290	MCS0	13.50	13.42

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SGS Taiwan Ltd.



Page: 117 of 328

		Mair	n Antenna			
					Max.	
					Rated Avg.	Average
Band	Mode	Channel	Frequency	Data Rate	Power +	power
			(MHz)		Max.	(dBm)
					Tolerance	(32)
		100	5500		13.50	13.16
		104	5520		16.50	16.46
		120	5600		16.50	16.45
	802.11a	124	5620	6Mbps	16.50	16.30
	002	128	5640	050	16.50	16.17
		136	5680		16.50	16.33
		140	5700		13.00	12.94
		100	5500		13.50	13.36
		120	5600	†	16.50	16.47
	802.11n-HT20	124	5620	MCS0	16.50	16.39
	002111111120	128	5640		16.50	16.33
		140	5700		13.00	12.90
		100	5500	MCS0	13.50	13.37
		120	5600		16.50	16.19
		124	5620		16.50	16.24
5600 MHz	802.11n-VHT20	128	5640		16.50	16.35
		140	5700		13.00	12.95
		144	5720		16.50	16.32
		102	5510		13.50	13.22
		110	5550		16.50	16.28
	802.11n-HT40	118	5590	MCS0	16.50	16.30
		126	5630		16.50	16.47
		134	5670		16.50	16.28
		102	5510		13.50	13.37
		118	5590		16.50	16.24
	802.11n-VHT40		5630	MCS0	16.50	16.45
		134	5670		16.50	16.25
		142	5710		16.50	16.17
		106	5530		13.50	13.35
	802.11n-VHT80	122	5610	MCS0	16.50	16.23
		138	5690		16.50	16.48

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Page: 118 of 328

		Mair	n Antenna			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance	Average power (dBm)
		149	5745		16.50	16.37
	802.11a	157	5785	6Mbps	16.50	16.35
		165	5825		16.50	16.32
	802.11n-HT20	149	5745	MCS0	16.50	16.30
		157	5785		16.50	16.41
		165	5825		16.50	16.48
5800 MHz		149	5745		16.50	16.45
3000 1011 12	802.11n-VHT20	157	5785	MCS0	16.50	16.42
		165	5825		16.50	16.20
	802.11n-HT40	151	5755	MCS0	16.50	16.41
	002.1111-11140	159	5795	IVICOU	16.50	16.35
	802.11n-VHT40	151	5755	MCS0	16.50	16.25
	802.1111-VH140	159	5795	IVICOU	16.50	16.17
	802.11n-VHT80	155	5775	MCS0	16.50	16.49

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Page: 119 of 328

		Aux	Antenna			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance	Average power (dBm)
		1	2412		16.50	16.34
	802.11b	2	2417		17.50	17.43
		6	2437	1Mbps	17.50	17.49
		10	2457		17.50	17.46
		11	2462		16.50	16.36
		1	2412		14.50	14.48
2450 MHz	802.11g	6	2437	6Mbps	17.50	17.43
2450 WITZ		11	2462		12.50	12.32
		1	2412		14.50	14.41
	802.11n-HT20	6	2437	MCS0	17.50	17.47
		11	2462		12.50	12.39
	802.11n-HT40	3	2422	MCS0	13.50	13.48
		6	2437		16.50	16.39
		9	2452		11.50	11.37

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Page: 120 of 328

		Aux	Antenna			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance	Average power (dBm)
		36	5180	6Mbps	14.00	13.93
	802.11a	40	5200		16.00	15.91
	002.11a	44	5220		16.00	15.87
		48	5240		16.00	15.96
	802.11n-HT20	36	5180		14.00	13.88
		40	5200	MCS0	16.00	15.98
		44	5220	IVICOU	16.00	15.81
		48	5240		16.00	15.84
5.15-5.25 GHz		36	5180		14.00	13.90
	802.11n-VHT20	40	5200	MCS0	16.00	15.97
	002.1111-111120	44	5220	IVICOU	16.00	15.92
		48	5240		16.00	15.88
	802.11n-HT40	38	5190	MCS0	13.50	13.34
	002.1111-11140	46	5230	IVICOU	16.50	16.49
	802.11n-VHT40	38	5190	MCS0	13.50	13.49
		46	5230	IVICOU	16.50	16.33
	802.11n-VHT80	42	5210	MCS0	13.50	13.38

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Page: 121 of 328

		•								
	Aux Antenna									
					Max.					
			Eroguenov		Rated Avg.	Average				
Band	Mode	Channel	Frequency	Data Rate	Power +	power				
			(MHz)		Max.	(dBm)				
					Tolerance	,				
		52	5260		16.00	15.90				
	802.11a	56	5280	GMbpa	16.00	15.98				
	002.11a	60	5300	6Mbps	16.00	15.95				
		64	5320		13.50	13.41				
		52	5260		16.00	15.95				
	802.11n-HT20	56	5280	MCS0	16.00	15.96				
		60	5300	IVICOU	16.00	15.82				
		64	5320		13.50	13.36				
5.25-5.35 GHz		52	5260		16.00	15.83				
	802.11n-VHT20	56	5280	MCS0	16.00	15.98				
	002.1111-V11120	60	5300	IVICOU	16.00	15.86				
		64	5320		13.50	13.31				
	802.11n-HT40	54	5270	MCS0	16.50	16.47				
<u> </u>	002.1111-11140	62	5310	IVICOU	13.50	13.43				
	802.11n-VHT40	54	5270	MCS0	16.50	16.46				
	002.1111-V11140	62	5310	IVICOU	13.50	13.42				
	802.11n-VHT80	58	5290	MCS0	13.50	13.46				

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Page: 122 of 328

		Διιν	Antenna			
		Aux	Antoma		Max.	
						A
			Frequency		Rated Avg.	Average
Band	Mode	Channel	(MHz)	Data Rate		power
			(1711 12)		Max.	(dBm)
					Tolerance	
		100	5500		13.50	13.39
		104	5520]	16.50	16.40
		120	5600		16.50	16.33
	802.11a	124	5620	6Mbps	16.50	16.34
		128	5640		16.50	16.35
		136	5680		16.50	16.47
		140	5700		13.00	12.81
		100	5500		13.50	13.42
		120	5600		16.50	16.47
	802.11n-HT20	124	5620	MCS0	16.50	16.45
		128	5640		16.50	16.33
		140	5700]	13.00	12.96
		100	5500		13.50	13.39
		120	5600		16.50	16.39
	000 11 m V/UT00	124	5620	MCCO	16.50	16.44
5600 MHz	802.11n-VHT20	128	5640	MCS0	16.50	16.41
		140	5700		13.00	12.80
		144	5720		16.50	16.47
		102	5510		14.00	13.96
		110	5550		16.50	16.37
	802.11n-HT40	118	5590	MCS0	16.50	16.39
		126	5630		16.50	16.34
		134	5670		16.50	16.31
		102	5510		14.00	13.83
		118	5590		16.50	16.45
	802.11n-VHT40		5630	MCS0	16.50	16.32
		134	5670]	16.50	16.45
		142	5710]	16.50	16.37
		106	5530		13.50	13.43
	802.11n-VHT80	122	5610	MCS0	16.50	16.39
		138	5690		16.50	16.48

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Page: 123 of 328

		Aux	Antenna			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance	Average power (dBm)
		149	5745		16.50	16.37
	802.11a	157	5785	6Mbps	16.50	16.32
		165	5825		16.50	16.43
		149	5745		16.50	16.42
	802.11n-HT20	157	5785	MCS0	16.50	16.37
		165	5825		16.50	16.40
5800 MHz		149	5745		16.50	16.45
3000 101112	802.11n-VHT20	157	5785	MCS0	16.50	16.30
		165	5825		16.50	16.44
	802.11n-HT40	151	5755	MCS0	16.50	16.41
	002.1111-11140	159	5795	IVICOU	16.50	16.44
	802.11n-VHT40	151	5755	MCS0	16.50	16.38
	002.1111-111140	159	5795	IVICOU	16.50	16.38
	802.11n-VHT80	155	5775	MCS0	16.50	16.46

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Page: 124 of 328

Bluetooth conducted power table:

Mode	Channal	Frequency	Average	Max. Rated Avg. Power + Max.		
	Channel	(MHz)	1Mbps	2Mbps	3Mbps	Tolerance (dBm)
	CH 00	2402	4.37	-1.51	-1.42	
BR/EDR	CH 39	2441	4.31	-1.30	-1.13	5.1
	CH 78	2480	3.77	-1.58	-1.67	

Mode	Channal	Frequency	Average Output Power (dBm)	Max. Rated Avg. Power + Max.
Mode	Channel	(MHz)	GFSK	Tolerance (dBm)
	CH 00	2402	3.30	
LE	CH 19	2440	3.62	5.1
	CH 39	2480	3.39	

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Page: 125 of 328

1.3.1 LTE Downlink CA specification

LTE Downlink 2CA conducted power table

						Two	Compone	ent Carrier	Maximum C	onducted i	Power					
				PCC					<u> </u>	SC			Po	wer		
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	LTE Tx.Power with DL CA active (dBm)	LTE Tx.Power with DL CA inactive (dBm)	Configurations	Meximum power
LTE B5	10	20600	844	QPSK	1	49	2600	889	LTE B1	20	300	2140	22.97	23.10	CA_1A-5A	Full power
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B1	20	300	2140	21.94	21.98	CA_1A-5A	Reduced power
LTE B26	5	26715	816.5	QPSK	1	24	8715	861.5	LTE B1	20	300	2140	23.11	23.21	CA_1A-26A	Full power
LTE B26	15	26825	822.5	QPSK	36	0	8825	872.5	LTE B1	20	300	2140	20.92	20.97	CA_1A-26A	Reduced power
LTE B2	20	18700	1860	QPSK QPSK	1	0	700	1940	LTE B17	10	5790	740	23.44	23.66	CA_2A-17A	Full power
LTE B2	20	18700	1860			0	700	1940	LTE B17	10	5790	740	16.86	16.96	CA_2A-17A	Reduced power
LTE B17	10 10	23780 23800	709 711	QPSK QPSK	1	49 49	5780 5800	739 741	LTE B2 LTE B2	20 20	900 900	1960 1960	23.06 19.27	23.12 19.48	CA_2A-17A CA_2A-17A	Full power Reduced power
LTE B2	20	18700	1860	OPSK	1	0	700	1940	LTE B30	10	9820	2355	23.45	19.48	CA_2A-17A CA_2A-30A	
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B30	10	9820	2355	16.77	16.96	CA_2A-30A CA_2A-30A	Full power Reduced power
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	23.24	23.44	CA_2A-30A	Full power
LTE B30	10	27710	2310	OPSK	50	0	9820	2355	LTE B2	20	900	1960	16.92	16.96	CA_2A-30A	Reduced power
LTE B5	10	20600	844	QPSK	1	49	2600	889	LTE B3	20	1575	1842.5	22.87	23.10	CA_2A-50A	Full power
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B3	20	1575	1842.5	21.75	21.98	CA_3A-5A	Reduced nower
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B13	10	5230	751	23.56	23.61	CA_4A-13A	Full power
LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B13	10	5230	751	17.28	17.46	CA_4A-13A	Reduced power
LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B4	20	2175	2132.5	22.86	23.08	CA_4A-13A	Full power
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B4	20	2175	2132.5	20.25	20.48	CA_4A-13A	Reduced power
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B17	10	5790	740	23.46	23.61	CA_4A-17A	Full power
LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B17	10	5790	740	17.37	17.46	CA_4A-17A	Reduced power
LTE B17	10	23780	709	QPSK	1	49	5780	739	LTE B4	20	2175	2132.5	23.05	23.12	CA_4A-17A	Full power
LTE B17	10	23800	711	QPSK	1	49	5800	741	LTE B4	20	2175	2132.5	19.35	19.48	CA_4A-17A	Reduced power
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B30	10	9820	2355	23.40	23.61	CA_4A-30A	Full power
LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B30	10	9820	2355	17.36	17.46	CA_4A-30A	Reduced power
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B4	20	2175	2132.5	23.27	23.44	CA_4A-30A	Full power
LTE B30	10	27710	2310	QPSK	50	0	9820	2355	LTE B4	20	2175	2132.5	16.91	16.96	CA_4A-30A	Reduced power
LTE B5	10	20600	844	QPSK	1	49	2600	889	LTE B7	20	3100	2655	23.04	23.10	CA_5A-7A	Full power
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B7	20	3100	2655	21.94	21.98	CA_5A-7A	Reduced power
LTE B7	20	21100	2535	QPSK	1	99	3100	2655	LTE B5	10	2525	881.5	23.04	23.07	CA_5A-7A	Full power
LTE B7	20	21100	2535	QPSK	1	0	3100	2655	LTE B5	10	2525	881.5	17.27	17.49	CA_5A-7A	Reduced power
LTE B5	10	20600	844	QPSK	1	49	2600	889	LTE B30	10	9820	2355	22.94	23.10	CA_5A-30A	Full power
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B30	10	9820	2355	21.82	21.98	CA_5A-30A	Reduced power
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B5	10	2525	881.5	23.42	23.44	CA_5A-30A	Full power
LTE B30	10	27710	2310	QPSK	50	0	9820	2355	LTE B5	10	2525	881.5	16.92	16.96	CA_5A-30A	Reduced power
LTE B7	20	21100	2535	QPSK	1	99	3100	2655	LTE B20	20	6300	806	22.96	23.07	CA_7A-20A	Full power
LTE B7	20	21100	2535	QPSK	1	0	3100	2655	LTE B20	20	6300	806	17.31	17.49	CA_7A-20A	Reduced power
LTE B7	20	21100	2535	QPSK	1	99	3100	2655	LTE B28	20	9460	783	22.91	23.07	CA_7A-28A	Full power
LTE B7	20	21100	2535	QPSK	1	0	3100	2655	LTE B28	20	9460	783	17.24	17.49	CA_7A-28A	Reduced power
LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B30	10	9820	2355	22.96	23.19	CA_12A-30A	Full power
LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B30	10	9820	2355	19.26	19.49	CA_12A-30A	Reduced power
LTE B30	10	27710	2310	QPSK	1 50	0	9820 9820	2355	LTE B12	10	5095 5095	737.5	23.36	23.44 16.96	CA_12A-30A	Full power
LTE B30	10	27710	2310	QPSK	50	0		2355	LTE B12	10		737.5	16.86		CA_12A-30A	Reduced power
LTE B30	10	27710	2310	QPSK QPSK	1	0	9820 9820	2355 2355	LTE B29	10	9715	722.5	23.40	23.44	CA_29A-30A	Full power
LTE B30 LTE B2	10 20	27710 18700	2310 1860	QPSK	50	0	700	2355 1940	LTE B29 LTE B2	10 20	9715 898	722.5 1959.8	16.71 23.42	16.96 23.66	CA_29A-30A	Reduced power Full power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8 1959.8	23.42 16.85	23.66 16.96	CA_2C CA_2C	Reduced power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1959.8	23.59	23.66	CA_2C CA_2A-2A	Full power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	16.78	16.96	CA_2A-2A CA_2A-2A	Reduced power
LTE B4	20	20300	1745	OPSK	1	0	2300	2145	LTE B2	20	2050	2120	16.78	23.61	CA_2A-2A CA_4A-4A	Full power
LTE B4	5	20300	1752.5	16QAM	1	0	2375	2152.5	LTE B4	20	2050	2120	17.23	17.45	CA_4A-4A CA_4A-4A	Reduced power
LTE B7	20	21350	2560	QPSK	1	99	3350	2680	LTE B7	20	3152	2660.2	22.68	22.91	CA_4A-4A CA_7C	Full power
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	17.30	17.47	GA 7C	Reduced nower
LTE B7	20	21350	2560	QPSK	1	99	3350	2680	LTE B7	20	2850	2630	22.89	22.91	CA_7A-7A	Full power
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2850	2630	17.32	17.47	CA_7A-7A	Reduced power
LTE B41	20	39750	2506	OPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	22.82	22.89	CA_/A-/A	Full nower
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	18.40	18.63	CA_41C	Reduced power
LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41490	2680	22.83	22.89	CA_41A-41A	Full power
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	41490	2680	18.46	18.63	CA_41A-41A	Reduced power
CIL D41	20	38130	2300	QI OIL		v	38130	2300	LIL D41	20	41400	2000	10.40	10.03	OV-41V-41V	uuuceu powe

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Page: 126 of 328

LTE Downlink 3CA conducted power table

								Thre	e Compor			n Conducted	Power							
	PCC		BOC ***	PCC		_		B00 (***)		8CC	C 1	anc	-	scc	DC 2	800 (71)	Po LTE Tx.Power		-	Meximum
PCC Band	PCC Bendwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bendwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	with DL CA active (dBm)	LTE Tx.Power with DL CA inactive (dBm)	Configurations	power
LTE B7	20	21100	2535	QPSK	1	99	3100	2655	LTE B1	20	300	2140	LTE B3	20	1575	1842.5	22.92	23.07	CA_1A-3A-7A	Full power
LTE B7	20	21100	2535	QPSK	- 1	0	3100	2655	LTE B1	20	300	2140	LTE B3	20	1575	1842.5	17.24	17.49	CA_1A-3A-7A	Reduced power
LTE B2	20	18700	1860 1860	QPSK	1	0	700	1940 1940	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5 881.5	23.54 16.93	23.66 16.96	CA_2A-4A-5A	Full power
LTE B2	20	18700 20300	1860	QPSK QPSK	1	99	700 2300	1940 2145	LTE B4 LTE B2	20	2175 900	2132.5 1960	LTE B5	10	2525 2525	881.5 881.5	16.93 23.37	16.96 23.61	CA_2A-4A-5A CA_2A-4A-5A	Reduced power Full power
LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B5	10	2525	881.5	17.40	17.46	CA_2A-4A-5A	Reduced power
LTE B5	10	20600	844	QPSK	1	49	2600	889	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	22.96	23.10	CA_2A-4A-5A	Full power
LTE B5	10 20	20450 18700	829 1860	QPSK QPSK	1	0	2450 700	874 1940	LTE B2 LTE B4	20 20	900 2175	1960 2132.5	LTE B4 LTE B13	20 10	2175 5230	2132.5 751	21.97 23.60	21.98 23.66	CA_2A-4A-5A CA_2A-4A-13A	Reduced power Full power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2132.5	LTE B13	10	5230	751	16.75	16.96	CA_2A-4A-13A	Reduced power
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B2	20	900	1960	LTE B13	10	5230	751	23.52	23.61	CA_2A-4A-13A	Full power
LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B13	10	5230	751	17.24	17.46	CA_2A-4A-13A	Reduced power
LTE B13	10 10	23230 23230	782 782	QPSK QPSK	1 1	49 25	5230 5230	751 751	LTE B2 LTE B2	20 20	900	1960 1960	LTE B4	20 20	2175 2175	2132.5 2132.5	22.84	23.08	CA_2A-4A-13A CA_2A-4A-13A	Full power Reduced power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	23.53	23.66	CA_2A-5A-30A	Full power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	16.80	16.96	CA_2A-5A-30A	Reduced power
LTE B5	10	20600	844	QPSK	1	49	2600	889	LTE B2	20	900	1960	LTE B30	10	9820	2355	23.05	23.10	CA_2A-5A-30A	Full power
LTE B5	10	20450 27710	829 2310	QPSK QPSK	1 1	0	2450 9820	874 2355	LTE B2	20	900	1960 1960	LTE B30 LTE B5	10	9820 2525	2355 881.5	21.86	21.98	CA_2A-5A-30A CA_2A-5A-30A	Reduced power Full power
LTE B30	10	27710	2310	QPSK	50	0	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	16.82	16.96	CA_2A-5A-30A	Reduced power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	23.55	23.66	CA_2A-5A-66A	Full power
LTE B2 LTE B5	20 10	18700 20600	1860 844	QPSK QPSK	1 1	0 49	700 2600	1940 889	LTE B5 LTE B2	10 20	2525 900	881.5 1960	LTE B66	20 20	66786 66786	2145 2145	16.86 22.91	16.96 23.10	CA_2A-5A-66A CA_2A-5A-66A	Reduced power Full power
LTE B5	10	20600	844 829	QPSK	1	49	2600 2450	889 874	LTE B2	20	900	1960 1960	LTE B66	20	66786 66786	2145 2145	22.91	23.10	CA_2A-5A-66A CA_2A-5A-66A	Full power Reduced power
LTE B66	20	132322	1745	QPSK	1	99	66786	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	23.33	23.50	CA_2A-5A-66A	Full power
LTE B66	20	132572	1770	QPSK	1	99	67036	2170	LTE B2	20	900	1960	LTE B5	10	2525	881.5	17.36	17.47	CA_2A-5A-66A	Reduced power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	23.58	23.66	CA_2A-12A-30A	Full power
LTE B2 LTE B12	20 5	18700 23035	1860 701.5	QPSK QPSK	1	0 24	700 5035	1940 731.5	LTE B12 LTE B2	10	5095 900	737.5 1960	LTE B30 LTE B30	10	9820 9820	2355 2355	16.95 23.03	16.96 23.19	CA_2A-12A-30A CA_2A-12A-30A	Reduced power Full power
LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	19.48	19.49	CA_2A-12A-30A	Reduced power
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B12	10	5095	737.5	LTE B2	20	900	1960	23.33	23.44	CA_2A-12A-30A	Full power
LTE B30	10	27710	2310	QPSK	50	0	9820	2355	LTE B12	10	5095	737.5	LTE B2	20	900	1960	16.83 23.46	16.96	CA_2A-12A-30A	Reduced power
LTE B2	20	18700 18700	1860 1860	QPSK QPSK	1 1	0	700 700	1940 1940	LTE B13	10	5230 5230	751 751	LTE B66	20	66786 66786	2145 2145	16.78	23.66 16.96	CA_2A-13A-66A CA_2A-13A-66A	Full power Reduced power
LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B2	20	900	1960	LTE B66	20	66786	2145	23.02	23.08	CA_2A-13A-66A	Full power
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B2	20	900	1960	LTE B66	20	66786	2145	20.44	20.48	CA_2A-13A-66A	Reduced power
LTE B66 LTE B66	20	132322	1745	QPSK QPSK	1	99	66786	2145	LTE B2	20	900	1960	LTE B13	10	5230 5230	751	23.46	23.50	CA_2A-13A-66A CA_2A-13A-66A	Full power
LTE B2	20 20	132572 18700	1770 1860	QPSK	1	99	67036 700	2170 1940	LTE B2 LTE B29	10	900 9715	1960 722.5	LTE B13 LTE B30	10	9820	751 2355	17.29 23.49	23.66	CA_2A-13A-66A CA_2A-29A-30A	Reduced power Full power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	16.93	16.96	CA_2A-29A-30A	Reduced power
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B29	10	9715	722.5	23.32	23.44	CA_2A-29A-30A	Full power
LTE B30	10	27710	2310 2535	QPSK	50	99	9820 3100	2355 2655	LTE B2	20	900	1960	LTE B29	10	9715 6300	722.5 806	16.74 23.06	16.96 23.07	CA_2A-29A-30A CA_3A-7A-20A	Reduced power
LTE B7	20	21100 21100	2535 2535	QPSK	1	99	3100	2655	LTE B3	20	1575 1575	1842.5 1842.5	LTE B20 LTE B20	20	6300	806	17.31	17.49	CA_3A-7A-20A	Full power Reduced power
LTE B7	20	21100	2535	QPSK	1	99	3100	2655	LTE B3	20	1575	1842.5	LTE B28	20	9460	783	22.99	23.07	CA_3A-7A-28A	Full power
LTE B7	20	21100	2535	QPSK	1	0	3100	2655	LTE B3	20	1575	1842.5	LTE B28	20	9460	783	17.43	17.49	CA_3A-7A-28A	Reduced power
LTE B4	20	20300	1745	QPSK	1	99	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	23.52	23.61	CA_4A-5A-30A	Full power
LTE B4 LTE B5	20 10	20175 20600	1732.5 844	QPSK QPSK	1	0 49	2175 2600	2132.5 889	LTE B5 LTE B4	10 20	2525 2175	881.5 2132.5	LTE B30 LTE B30	10	9820 9820	2355 2355	17.29 23.02	17.46 23.10	CA_4A-5A-30A CA_4A-5A-30A	Reduced power Full power
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	21.87	21.98	CA_4A-5A-30A	Reduced power
LTE B30	10	27710	2310	QPSK	- 1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	23.25	23.44	CA_4A-5A-30A	Full power
LTE B30	10	27710	2310	QPSK	50	0	9820	2355	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	16.92	16.96	CA_4A-5A-30A	Reduced power
LTE B4 LTE B4	20 20	20300 20175	1745 1732.5	QPSK QPSK	1	99	2300 2175	2145 2132.5	LTE B12 LTE B12	10 10	5095 5095	737.5 737.5	LTE B30 LTE B30	10 10	9820 9820	2355 2355	23.48 17.45	23.61 17.46	CA_4A-12A-30A CA_4A-12A-30A	Full power Reduced power
LTE B12	5	23035	701.5	QPSK	1	24	5035	731.5	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	23.16	23.19	CA_4A-12A-30A	Full power
LTE B12	10	23095	707.5	QPSK	1	49	5095	737.5	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	19.40	19.49	CA_4A-12A-30A	Reduced power
LTE B30 LTE B30	10 10	27710 27710	2310 2310	QPSK QPSK	1 50	0	9820 9820	2355 2355	LTE B4	20 20	2175 2175	2132.5 2132.5	LTE B12 LTE B12	10	5095 5095	737.5 737.5	23.39 16.88	23.44 16.96	CA_4A-12A-30A CA_4A-12A-30A	Full power Reduced power
LTE B4	20	20300	2310 1745	QPSK	1	99	9820 2300	2355 2145	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	16.88	23.61	CA_4A-12A-30A CA_4A-29A-30A	Full power
LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	17.21	17.46	CA_4A-29A-30A	Reduced power
LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B29	10	9715	722.5	23.38	23.44	CA_4A-29A-30A	Full power
LTE B30 LTE B2	10 20	27710 18700	2310 1860	QPSK QPSK	50	0	9820 700	2355 1940	LTE B4 LTE B66	20 10	2175 66837	2132.5 2150.1	LTE B29 LTE B66	10	9715 66936	722.5 2160	16.92 23.45	16.96 23.66	CA_4A-29A-30A CA_2A-66B	Reduced power Full power
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B66	10	66837	2150.1	LTE B66	10	66936	2160	16.83	16.96	CA_2A-66B	Reduced power
LTE B66	15	132047	1717.5	QPSK	1	36	66511	2117.5	LTE B66	5	66604	2126.8	LTE B2	20	900	1960	22.98	23.20	CA_2A-66B	Full power
LTE B66	15	132047	1717.5	QPSK	1	36	66511	2117.5	LTE B66	5	66604	2126.8	LTE B2	20	900	1960	16.52	16.63	CA_2A-66B	Reduced power
LTE B2	20 20	18700 18700	1860 1860	QPSK QPSK	1	0	700 700	1940 1940	LTE B66	20 20	66536 66536	2120 2120	LTE B66	10	66680 66680	2134.4 2134.4	23.56 16.94	23.66 16.96	CA_2A-66C CA_2A-66C	Full power Reduced power
LTE B66	20	18700	1860	QPSK	1	0	67036	1940 2170	LTE B66	20	66838	2120	LTE BBB	20	900	2134.4 1960	16.94 23.32	23.49	CA_2A-66C CA_2A-66C	Full power
LTE B66	20	132572	1770	QPSK	111	99	67036	2170	LTE B66	20	66838	2150.2	LTE B2	20	900	1960	17.31	17.47	CA_2A-66C	Reduced power
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	LTE B3	20	1575	1842.5	22.67	22.91	CA_3A-7C	Full power
LTE B7	20 10	21350 20600	2560 844	QPSK QPSK	1	0 49	3350 2600	2680 889	LTE B7	20 10	3152 66837	2660.2 2150.1	LTE B3	20 10	1575 66936	1842.5 2160	17.24 22.92	17.47 23.10	CA_3A-7C CA 5A-66B	Reduced power
LTE B5	10	20600	844 829	QPSK QPSK	1	49	2600 2450	889 874	LTE B66	10	66837 66837	2150.1 2150.1	LTE B66	10	66936 66936	2160 2160	22.92	23.10	CA_5A-66B	Full power Reduced power
LTE B66	15	132047	1717.5	QPSK	1	36	66511	2117.5	LTE B66	5	66604	2126.8	LTE B5	10	2525	881.5	23.18	23.20	CA_5A-66B	Full power
LTE B66	15	132047	1717.5	QPSK	1	36	66511	2117.5	LTE B66	5	66604	2126.8	LTE B5	10	2525	881.5	16.45	16.63	CA_5A-66B	Reduced power
LTE B5	10	20600	844	QPSK	1	49	2600	889	LTE B66	20	66536	2120	LTE B66	10	66680	2134.4	22.94	23.10	CA_5A-66C	Full power
LTE B6	10 20	20450 132572	829 1770	QPSK QPSK	1	0	2450 67036	874 2170	LTE B66 LTE B66	20 20	66536 66838	2120 2150.2	LTE B66 LTE B5	10	66680 2525	2134.4 881.5	21.94 23.41	21.98 23.49	CA_5A-66C CA_5A-66C	Reduced power Full power
LTE B66	20	132572	1770	QPSK	1	99	67036	2170	LTE B66	20	66838	2150.2	LTE B5	10	2525	881.5	17.29	17.47	CA_5A-66C	Reduced power
LTE B13	10	23230	782	QPSK	- 1	49	5230	751	LTE B66	10	66837	2150.1	LTE B66	10	66936	2160	23.07	23.08	CA_13A-66B	Full power
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B66	10	66837	2150.1	LTE B66	10	66936	2160	20.45	20.48	CA_13A-66B	Reduced power
LTE B66 LTE B66	15 15	132047 132047	1717.5 1717.5	QPSK QPSK	1	36 36	66511 66511	2117.5 2117.5	LTE B66 LTE B66	5	66604 66604	2126.8 2126.8	LTE B13	10	5230 5230	751 751	23.00 16.52	23.20 16.63	CA_13A-66B CA_13A-66B	Full power Reduced power
LTE B13	10	23230	782	QPSK	1	49	5230	751	LTE B66	20	66536	2120.0	LTE B66	10	66680	2134.4	22.89	23.08	CA_13A-66C	Full power
LTE B13	10	23230	782	QPSK	1	25	5230	751	LTE B66	20	66536	2120	LTE B66	10	66680	2134.4	20.31	20.48	CA_13A-66C	Reduced power
LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66838	2150.2	LTE B13	10	5230	751	23.44	23.49	CA_13A-66C	Full power
LTE B66 LTE B66	20 20	132572 132072	1770 1720	QPSK QPSK	1 1	99	67036 66536	2170 2120	LTE B66 LTE B66	20 20	66838 66734	2150.2 2139.8	LTE B13 LTE B66	10 20	5230 66932	751 2159.6	17.22 23.18	17.47 23.25	CA_13A-66C CA_66D	Reduced power Full power
			1/20	UPSK.	1	. 0	00036	∠120	LIE BEE	20	00/34	∠139.8	LIE B66	20	00932	∠109.6	∠ა.18	23.25	CW_RRD	ruii power

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Page: 127 of 328

LTE CA information

A)

The device supports downlink LTE Carrier Aggregation (CA) only. It supports a maximum of 3 carriers in the downlink. Other Release 10 features or higher features are not supported, including Uplink Carrier Aggregation, Enhanced SC-FDMA and Uplink MIMO or other antenna diversity configurations etc. All uplink communications are identical to the Release 8 Specifications.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.521-1 V14.3.0. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1 V14.3.0. According to KDB 941225 D05A and RF exposure procedures in TCB workshop Nov. 2017, the downlink LTE CA SAR test is not required.

B)

i) Combinations supported for intra-band carrier aggregation.

Intra-band contiguous (2CC)	Intra-band contiguous (3CC)
CA-2C (0)	CA-66D (0)
CA-7B (0)	
CA-7C (0)(1)(2)	
CA-41C (0)(1)(2)	

Intra-band contiguous CA combination

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Page: 128 of 328

Table 1: intra-band contiguous CA

		ent carriers in				
	-	sing carrier fre		Maximum		
E-UTRA CA	Channel bandwidths	Channel bandwidths	Channel bandwidths	aggregated bandwidth	Bandwidth combination	
	for carrier	for carrier	for carrier	[MHz]	set	
	[MHz]	[MHz]	[MHz]			
	5	20				
	10	15,20				
CA_2C	15	10,15,20		40	0	
	20	5,10,15,20				
CA_7B	15	5		20	0	
	15	15				
	20	20		40	0	
	10	20				
CA_7C	15	15,20		40	1	
	20	10,15,20				
	15	10,15		40	0	
	20	15,20		40	2	
	10	20				
	15	15,20		40	0	
	20	10,15,20				
	5,10	20				
	15	15,20		40	1	
CA_41C	20	5,10,15,20				
	10	15,20				
	15	10,15,20		40	2	
	20	10,15,20				
	10	20		40	9	
	20 20			40	3	
CA_66D	5	20	20	60	0	

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Page: 129 of 328

20	5	20	
20	20	5	
10	20	15	
15	20	10	
10,15,20	15,20	20	
15,20	10	20	
15	15,20	15	
20	15,20	10,15	
20	10	15	

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Page: 130 of 328

Intra-band non-contiguous (2CC CA-2A-2A (0) CA-4A-4A (0)(1) CA-7A-7A (0)(1)(2)(3) CA-41A-41A (0)(1)

Intra-band non-contiguous CA combination

Table 2: intra-band non-contiguous CA (with two sub-blocks)

-UTRACA configuration	-	ent carriers in sing carrier fre Channel bandwidths for carrier	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-2A	5,10,15,20	5,10,15,20	40	0
	5,10,15,20	5,10,15,20	40	0
CA_4A-4A	5,10	5,10	20	1
	5 10 15	15 10,15 15,20	40	0
CA_7A-7A	20	20		
	5,10,15,20	5,10,15,20	40	1
	5,10,15,20	5,10	30	2
	10,15,20	10,15,20	40	3
	10,15,20	10,15,20	40	0
CA_41A-41A	5,10,15,20	5,10,15,20	40	1

ii) The frequency band combinations supported for inter-band carrier aggregation.

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Page: 131 of 328

2 bands / 2CC	2 bands / 3CC	3 bands / 3CC
		CA_1A-3A-7A (0)
CA_1A-5A (0)(1)		
CA_1A-26A (0)(1)		
CA_2A-4A (0)(1)(2)		CA_2A-4A-5A (0)
		CA_2A-4A-13A (0)
CA_2A-5A (0)(1)	CA_2C-5A (0)	CA_2A-5A-30A (0)
		CA_2A-5A-66A (0)
CA_2A-12A (0)(1)(2)		CA_2A-12A-30A (0)
CA_2A-13A (0)(1)		CA_2A-13A-66A (0)
CA_2A-17A (0)		
CA_2A-29A (0)(1)(2)		CA_2A-29A-30A (0)
CA_2A-30A (0)		
CA_2A-66A (0)(1)(2)	CA_2A-66B (0)	
	CA_2A-66C (0)	
CA_3A-5A (0)(1)(2)(3)(4)		
CA_3A-7A (0)(1)	CA_3C-7A (0)	CA_3A-7A-20A (0)
	CA_3A-7B (0)	CA_3A-7A-28A (0)
	CA_3A-7C (0)(1)	
CA_4A-5A (0)(1)		CA_4A-5A-30A (0)
CA_4A-12A (0)(1)(2)(3)(4)(5)		CA_4A-12A-30A (0)
CA_4A-13A (0)(1)		
CA_4A-17A (0)		
CA_4A-29A (0)(1)(2)		CA_4A-29A-30A (0)
CA_4A-30A (0)		
CA_5A-7A (0)(1)		
CA_5A-30A (0)		
CA_5A-66A (0)	CA_5A-66B (0)	
	CA_5A-66C (0)	
CA_7A-20A (0)(1)		
CA_7A-28A (0)(1)		
CA_12A-30A (0)		
CA_13A-66A (0)	CA_13A-66B (0)	
	CA_13A-66C (0)	
CA_29A-30A (0)		

Inter band CA combination

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Page: 132 of 328

Table 3: inter-band CA (two bands)

r					'	(two b	,		
E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	1				Yes			-	_
	5				Yes			20	0
CA_1A-5A	1			Yes	Yes	Yes	Yes		
	5			Yes	Yes			30	1
	1			Yes	Yes	Yes	Yes		
	26			Yes	Yes	Yes		35	0
CA_1A-26A	1			Yes	Yes				1
	26			Yes	Yes			20	
	2	Yes	Yes	Yes	Yes	Yes	Yes	40	
	4			Yes	Yes	Yes	Yes	40	0
	2			Yes	Yes			20	1
CA_2A-4A	4			Yes	Yes				
	2			Yes	Yes	Yes	Yes		0
	4			Yes	Yes	Yes	Yes	40	2
	2			Yes	Yes	Yes	Yes		
	5			Yes	Yes			30	0
CA_2A-5A	2			Yes	Yes				
	5			Yes	Yes			20	1
	2	See C	CA_2C I	oandwic	dth com	binatior	n set 0		
CA_2C-5A		in 30	SPP TS	36,521	-1 table	5.4.2A	. 1-3	50	0
	5			Yes	Yes				
CA_2A-12A	2			Yes	Yes	Yes	Yes	30	0
	12			Yes	Yes			30	U
	2			Yes	Yes	Yes	Yes	30	4
	12		Yes	Yes	Yes				1
	2			Yes	Yes			20	2

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Page: 133 of 328

			1	1	1	ı	1		
	12			Yes	Yes				
	2			Yes	Yes	Yes	Yes	00	0
04 04 104	13				Yes			30	0
CA_2A-13A	2			Yes	Yes			00	_
	13				Yes			20	1
04 04 474	2			Yes	Yes			00	
CA_2A-17A	17			Yes	Yes			20	0
	2			Yes	Yes				
	29		Yes	Yes	Yes			20	0
0.1 -1	2			Yes	Yes				
CA_2A-29A	29			Yes	Yes			20	1
	2			Yes	Yes	Yes	Yes		0
	29			Yes	Yes			30	2
0.1 -11.	2			Yes	Yes	Yes	Yes	00	0
CA_2A-30A	30			Yes	Yes			30	0
	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes		
04.04.004	2			Yes	Yes				1
CA_2A-66A	66			Yes	Yes			20	
	2			Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes	40	2
	2			Yes	Yes	Yes	Yes		
CA_2A-66B	66	See 0	CA_66E	B bandw	ridth cor	mbinatio	on set	40	0
	66	0 in 3	GPP T	S 36,52	1-1 tabl	e 5.4.2	A. 1-1		
	2			Yes	Yes	Yes	Yes		
CA_2A-66C	66	See 0	CA_66C	bandw	vidth co	mbinatio	on set	60	0
	66	0 in 3	GPP T	S 36,52	1-1 tabl	e 5.4.2	A. 1-1		
	3				Yes	Yes	Yes	30	0
CA_3A-5A	5			Yes	Yes			30	0
OA_3A-3A	3				Yes			20	4
	5			Yes	Yes			20	1

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Page: 134 of 328

		1				1	1		1
	3			Yes	Yes	Yes	Yes	30	2
	5			Yes	Yes				۷
	3			Yes	Yes	Yes	Yes	30	3
	5		Yes	Yes	Yes			30	J
	3		Yes	Yes	Yes			00	4
	5		Yes	Yes	Yes			20	4
	3			Yes	Yes	Yes	Yes	40	0
	7				Yes	Yes	Yes	40	0
CA_3A-7A	3			Yes	Yes	Yes	Yes	40	4
	7			Yes	Yes	Yes	Yes	40	1
	3			bandwic					
CA_3C-7A		in 30	<u>SPP TS</u>	36,521 	-1 table	5.4.2A	. 1-1	60	0
	7			Yes	Yes	Yes	Yes		
	3			Yes	Yes				
CA_3A-7B	7			oandwid 36,521		40	0		
	_	111 30	3 - 13			Yes	Yes		
	3			Yes	Yes	60			
	7			bandwid 36,521			0		
CA_3A-7C	3			Yes	Yes	Yes			
	7			bandwid	dth com	set 2	60	1	
		ın 30	3PP IS	36,521	-1 table	5.4.2A	. 1-1		
	4			Yes	Yes			20	0
CA_4A-5A	5			Yes	Yes				-
<u> </u>	4			Yes	Yes	Yes	Yes	30	1
	5			Yes	Yes			JU	1
	4	Yes	Yes	Yes	Yes			20	0
	12			Yes	Yes			20	U
CA_4A-12A	4	Yes	Yes	Yes	Yes	Yes	Yes	30	1
	12			Yes	Yes			JU	1
	4			Yes	Yes	Yes	Yes	30	2

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Page: 135 of 328

	T	1	1	1	1	1	1 1		
	12		Yes	Yes	Yes				
	4			Yes	Yes			22	0
	12			Yes	Yes			20	3
	4			Yes	Yes	Yes	Yes		
	12			Yes	Yes			30	4
	4			Yes	Yes	Yes		•	_
	12			Yes				20	5
	4			Yes	Yes	Yes	Yes		_
	13				Yes			30	0
CA_4A-13A	4			Yes	Yes				
	13				Yes			20	1
	4			Yes	Yes				_
	29		Yes	Yes	Yes			20	0
	4			Yes	Yes				
CA_4A-29A	29			Yes	Yes			20	1
	4			Yes	Yes	Yes	Yes	30	2
	29			Yes	Yes				
	4			Yes	Yes	Yes	Yes		
CA_4A-30A	30			Yes	Yes			30	0
	5	Yes	Yes	Yes	Yes				
	7				Yes	Yes	Yes	30	0
CA_5A-7A	5			Yes	Yes				
	7				Yes	Yes	Yes	30	1
04 54 551	5			Yes	Yes			22	
CA_5A-30A	30			Yes	Yes			20	0
	5			Yes	Yes				ا
CA_5A-66A	66			Yes	Yes	Yes	Yes	30	0
	5			Yes	Yes				
CA_5A-66B		See (CA_66E	B bandw	idth cor	mbinatio	on set	30	0
_	66			S 36,52					
CA_5A-66C	5			Yes	Yes			50	0

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Page: 136 of 328

	ı	1							1
		See 0	CA_66C	bandw	idth co	mbinatio	on set		
	66	2 in 3	GPP T	S 36,52	1-1 tabl				
	7				Yes	Yes	Yes		
	20			Yes	Yes			30	0
CA_7A-20A	7				Yes	Yes	Yes		
	20			Yes	Yes	Yes	Yes	40	1
	7			Yes	Yes	Yes	Yes		
	28			Yes	Yes	Yes		35	0
CA_7A-28A	7			Yes	Yes	Yes	Yes	40	
	28			Yes	Yes	Yes	Yes	40	1
	12			Yes	Yes			20	0
CA_12A-30A	30			Yes	Yes				
	13			Yes	Yes				
CA_13A-66A	66			Yes	Yes	Yes	Yes	30	0
	13			Yes	Yes				
CA_13A-66B		See 0	CA_66E	3 bandw	vidth cor	30	0		
	66	0 in 3	GPP T	S 36,52	1-1 tabl	e 5.4.2	A. 1-1		
	13			Yes	Yes			50	
CA_13A-66C	00	See 0	CA_660	bandw	idth co	mbinatio	on set		0
	66	0 in 3	GPP T	S 36,52	1-1 tabl	A. 1-1			
04 004 004	29			Yes	Yes			00	
CA_29A-30A	30			Yes	Yes			20	0

Table 4: inter-band CA (three bands)

E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	1			Yes	Yes	Yes	Yes		
CA_1A-3A-7A	3			Yes	Yes	Yes	Yes	60	0
_	7				Yes	Yes	Yes		

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Page: 137 of 328

I			1	ı	1		T
	2	Yes	Yes	Yes	Yes		
CA_2A-4A-5A	4	Yes	Yes	Yes	Yes	50	0
	5	Yes	Yes				
	2	Yes	Yes	Yes	Yes		
CA_2A-4A-13A	4	Yes	Yes	Yes	Yes	50	0
	13		Yes				
	2	Yes	Yes	Yes	Yes		
CA_2A-5A-30A	5	Yes	Yes			40	0
	30	Yes	Yes				
	2	Yes	Yes	Yes	Yes		
CA_2A-5A-66A	5	Yes	Yes			50	0
	66	Yes	Yes	Yes	Yes		
	2	Yes	Yes	Yes	Yes		
CA_2A-12A-30A	12	Yes	Yes			40	0
	30	Yes	Yes				
	2	Yes	Yes	Yes	Yes	50	0
CA_2A-13A-66A	13	Yes	Yes				
	66	Yes	Yes	Yes	Yes		
	2	Yes	Yes	Yes	Yes		
CA_2A-29A-30A	29	Yes	Yes			40	0
	30	Yes	Yes				
	3	Yes	Yes	Yes	Yes		
CA_3A-7A-20A	7		Yes	Yes	Yes	60	0
	20	Yes	Yes	Yes	Yes		
	3	Yes	Yes	Yes	Yes		
CA_3A-7A-28A	7	Yes	Yes	Yes	Yes	60	0
	28	Yes	Yes	Yes	Yes		
	4	Yes	Yes	Yes	Yes		
CA_4A-5A-30A	5	Yes	Yes			40	0
	30	Yes	Yes				
CA_4A-12A-30A	4	Yes	Yes	Yes	Yes	40	0

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Page: 138 of 328

	12		Yes	Yes				
	30		Yes	Yes				
	4		Yes	Yes	Yes	Yes		
CA_4A-29A-30A	29		Yes	Yes			40	0
	30		Yes	Yes				

Note:

- 1) For the inter-band CA combinations, except B29 can't be PCC, all the listed bands above can be used as PCC or SCC.
- 2) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V14.3.0.
- 3) The reference test frequencies for CA refers to 3GPP TS 36.508 V14.2.0
- 4) Testing is not required in bands or modes not intended/allowed for US operation
- 5) Based on TCB workshop Nov. 2017, for inter-band downlink CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need consideration; i.e., the bold words bands in CA combination table.
- 6) Based on TCB workshop Nov. 2017, for intra-band downlink CA SAR test exclusion, only the CA configuration with the largest aggregated DL CA bandwidth in each frequency band group need consideration, i.e., the bold words bands in CA combination table, and independently for contiguous and non-contiguous CA.

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Page: 139 of 328

1.4 Test Environment

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

1.5 Operation Description

For WWAN, the EUT is controlled by using a Radio Communication Tester, and the communication between the EUT and the tester is established by air link.

For WLAN, using chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

WWAN

Keyboard bottom touch against the flat phantom_0mm with power reduction

Keyboard bottom to the flat phantom 14mm without power reduction

WLAN

Keyboard bottom touch against the flat phantom 0mm without power reduction

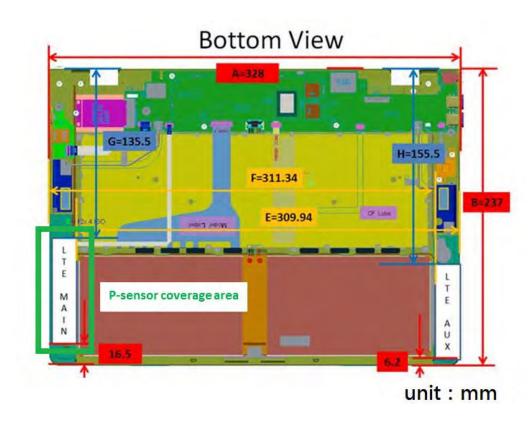
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Page: 140 of 328



WWAN Antenna location (Bottom view)

(The p-sensor is colocated with WWAN Main antenna)

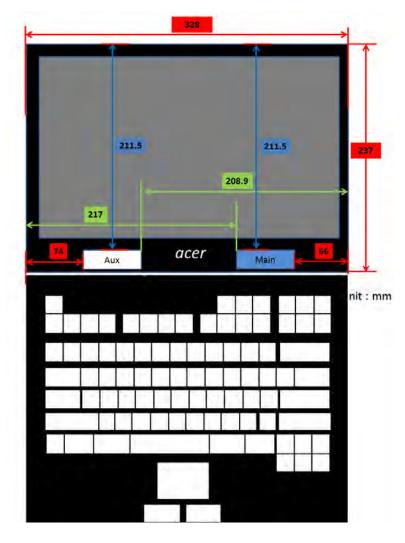
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Page: 141 of 328



WLAN Antenna location (Front view)

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Page: 142 of 328

Note:

- 1. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- 2. The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is ≤ 1/4 dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA).
- 3. The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is ≤ 1/4 dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA).
- 4. LTE modes test according to KDB 941225D05v02r05.
 - a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
 - Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
 - When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.
 b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation

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Page: 143 of 328

- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
- c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are \leq 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- d. Per Section 5.2.4, Higher order modulations
- 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 > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

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Page: 144 of 328

TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

LTE downlink CA (KDB942225 D05A)

- 5. The device supports a maximum of 3 carriers in the downlink. All uplink communications are identical to the Release 8 specifications. Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- 6. The downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements. The nominal channel spacing is determined by [BW1 + BW2 - 0.1*|BW1 - BW2|]/2 MHz, where BW1 and BW2 are the channel bandwidths of the CC in a 2-CC aggregation configuration.
- 7. The downlink PCC channel should be paired with the uplink channel according to normal configurations, as if there is no carrier aggregation. The downlink SCC should be adjacent to the PCC and remain within the downlink transmission band for contiguous intra-band CA. For non-contiguous intra-band CA, the SCC should be selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band. For inter-band CA, the SCC should be near the middle of its transmission band.

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Page: 145 of 328

8. When downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive, so SAR evaluation is not required for downlink carrier aggregation.

802.11b DSSS SAR Test Requirements:

- 9. 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.
- 10. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

802.11g/n OFDM SAR Test Exclusion Requirements:

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

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Page: 146 of 328

Initial Test Configuration:

- 12. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band.
- 13.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.
- 14. For WLAN Main/Aux, 5.2n(40) / 5.3n(40) / 5.6ac(80) / 5.8ac(80) is chosen to be the initial test configuration.
- 15. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.
- 16. According to KDB447498D01v06, SAR test exclusion is evaluated as below.
 - (1) SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:

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

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

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Page: 147 of 328

(2) For test separation distances > 50 mm, and the frequency at 100 MHz to 1500MHz, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B of KDB447498 D01. [(Threshold at 50mm in step1) + (test separation distance-50mm) x(\frac{t(NHz)}{150})](mW),

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

				•
	Mode	WLAN Main 2.45GHz	WLAN Main 5GHz	
Max. tune-	up power(dBm)	17.5	16.5	
Max. tune-	-up power(mW)	56.234	44.668	
	Test separation distance	less than 5	less than 5	
Bottom side	Calculation value	17.647	21.561	
	Require SAR testing?	YES	YES	
	Mode	WLAN Aux 2.45GHz	WLAN Aux 5GHz	ВТ
Max. tune-	up power(dBm)	17.5	16.5	5.1
Max. tune-	-up power(mW)	56.234	44.668	3.236
	Test separation	less than 5	less than 5	less than 5
	distance	less than 5	less than 5	icos tilali o
Bottom side	distance Calculation value	17.647	21.561	1.019

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Page: 148 of 328

	Mode	WCDMA	B2	WCDM.	A B4	WCDN	ма в5	נז	ΓΕ B2	ı	LTE B4	LTE B5	LTE B7
Max. tune	-up power(dBm) 16.5		16.	5	21	.5		24		24	22	17.5
Max. tune	e-up power(mW) 44.66	8	44.6	68	141	.254	25	1.189	2	251.189	158.489	56.234
	Test separation distance	less tha	n 5	less th	an 5	less t	han 5	less	than 5	les	ss than 5	less than 5	less than 5
Bottom side	Calculation value	12.33	9	11.82	27	25.9	994	69	9.248	(66.363	29.121	17.995
	Require SAF testing?	YES	i	YE	S	YI	ES	,	YES		YES	YES	YES
	Mode	LTE B12	Ľ	TE B13	LTE	B17	LTE I	326	LTE B3	30	LTE B38	LTE B41	LTE B66
Max. tune-	up power(dBm)	19.5		20.5	1	9.5	21		17		20	19	17.5
Max. tune-	up power(mW)	89.125	1	12.202	89	.125	125.8	393	50.11	9	100.000	79.433	56.234
	Test separation distance	less than 5	les	s than 5	less	than 5	less th	an 5	less tha	n 5	less than	5 less than 5	less than 5
Bottom side	Calculation value	15.030	1	9.844	15.	.030	23.0	97	15.23	5	32.311	26.007	14.963
	Require SAR testing?	YES		YES	Υ	ES	YE	s	YES		YES	YES	YES

17. According to **KDB447498D01v06**, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is \leq 0.8 W/kg, when the transmission band is \leq 100 MHz.

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Page: 149 of 328

- 18. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)
- 19. The device supports both LTE B4 and LTE band 66. Since the supported frequency span for LTE B4 falls completely within the supported frequency span for LTE B66, both LTE bands have the same maximum tune-up power for full power / reduced power, and both LTE bands share the same transmission path, SAR was only assessed for LTE B66.

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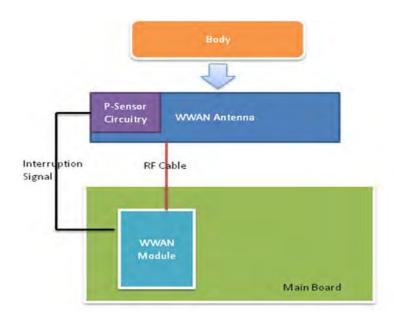
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Page: 150 of 328

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.



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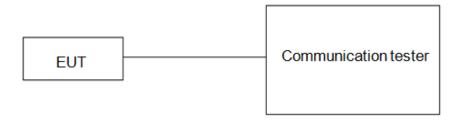
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Page: 151 of 328

1.6.1 Proximity sensor measurement procedure

- 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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Page: 152 of 328

1.6.2 Trigger distances for bottom side

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.
- 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
- 4. 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.
- 5. 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.
- 6. The process is then reversed by moving the tablet away from the phantom to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
- 7. The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.

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Page: 153 of 328

- 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 15mm.

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Page: 154 of 328

1.6.3 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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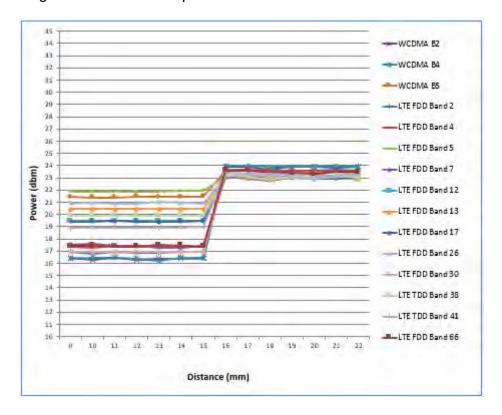
Page: 155 of 328

1.6.4 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.

Bottom side

Moving device toward the phantom



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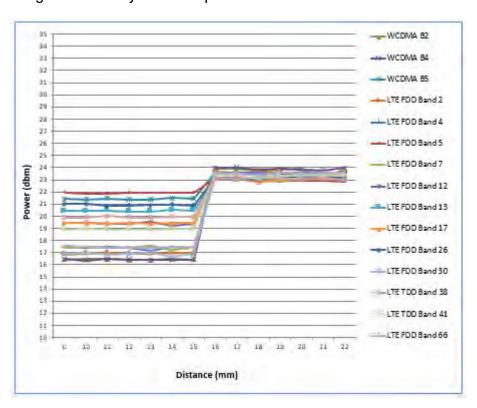
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Page: 156 of 328

Moving device away from the phantom



For bottom side, the worst trigger distance of proximity sensor is 15mm, and we perform bottom side SAR in 14mm without power reduction and 0mm with power reduction.

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Page: 157 of 328

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 (1.6.5) 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.



Page: 158 of 328

1.6.5 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 WCDMA/LTE default power when P-sensor failure or malfunction are show in Table1-2 as below.

Table1-1: The power reduction scenario table

Band	Power Reduction
WCDMA B2	YES
WCDMA B4	YES
WCDMA B5	YES
LTE B2/4/5/7/12/13/17/26/30/38/41/66	YES
WLAN	NO
ВТ	NO

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Page: 159 of 328

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

Technology / Band	Mode	Default Maximum Power (dBm)
UMTS B2	All	16.5
UMTS B4	All	16.5
UMTS B5	All	21.5
LTE B2	All	17
LTE B4	All	17.5
LTE B5	All	22
LTE B7	All	17.5
LTE B12	All	20.5
LTE B13	All	19.5
LTE B17	All	19.5
LTE B26	All	21
LTE B30	All	17
LTE B38	All	20
LTE B41	All	19
LTE B66	All	17.5

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Page: 160 of 328

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:

- 1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- 2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
- 3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

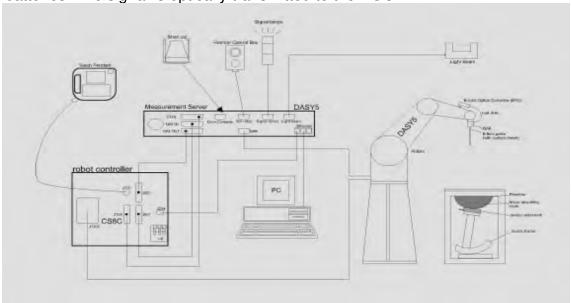


Fig. a The block diagram of SAR system

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Page: 161 of 328

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

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Page: 162 of 328

1.8 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core
	Built-in shielding against static charges
	PEEK enclosure material (resistant to
	organic solvents, e.g., DGBE)
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800MHz Additional CF for other liquids and frequencies upon request
-	do Mila de la Cilla
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	$10 \mu W/g \text{ to } > 100 \text{ mW/g}$
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario
	(e.g., very strong gradient fields). Only probe which enables
	compliance testing for frequencies up to 6 GHz with precision of
	better 30%.

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Page: 163 of 328

PHANTOM

PHANTOM	
Model	ELI
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.
Shell Thickness	2 ± 0.2 mm
Filling Volume	Approx. 30 liters
Dimensions	Major axis: 600 mm
	Minor axis: 400 mm

DEVICE HOLDER

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.	TO TO
	Device Holder

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Page: 164 of 328

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 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was 21.7°C, the relative humidity was 62% and the liquid depth above the ear reference points was \geq 15 cm \pm 5 mm (frequency \leq 3 GHz) or \geq 10 cm \pm 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.

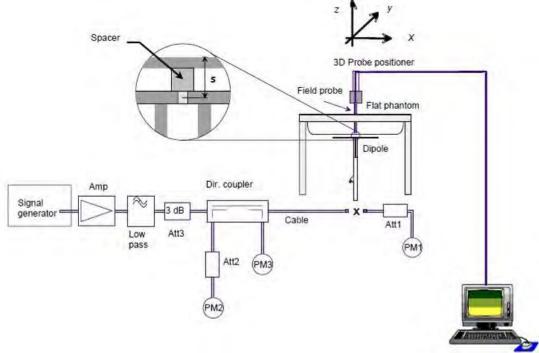


Fig. b The block diagram of system verification

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Page: 165 of 328

Validation Kit	S/N	Frequ (Mł	,	1W Target SAR-1g (mW/g)	Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W	Deviation (%)	Measured Date
D750V3	1015	750	Body	8.76	2.19	8.76	0.00%	Jan. 05, 2018
D835V2	4d063	835	Body	9.57	2.46	9.84	2.82%	Jan. 08, 2018
D1750V2	1008	1750	Body	36.7	9.40	37.60	2.45%	Jan. 09, 2018
D1900V2	5d173	1900	Body	40.2	10.30	41.20	2.49%	Jan. 10, 2018
D2300V2	1023	2300	Body	46.4	12.20	48.80	5.17%	Jan. 11, 2018
D2450V2	727	2450	Body	50.6	12.90	51.60	1.98%	Jan. 12, 2018
D2600V2	1005	2600	Body	55.1	13.90	55.60	0.91%	Jan. 15, 2018
		5200	Body	72.8	7.35	73.50	0.96%	Jan. 16, 2018
D5GHzV2	1023	5300	Body	76.1	7.85	78.50	3.15%	Jan. 17, 2018
DOGNZVZ	1023	5600	Body	79.6	8.05	80.50	1.13%	Jan. 18, 2018
		5800	Body	75.9	7.93	79.30	4.48%	Jan. 19, 2018

Table 1. Results of system verification

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Page: 166 of 328

1.10 Tissue Simulant Fluid for the Frequency Band

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

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

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
		704	55.710	0.960	56.252	0.934	-0.97%	2.69%
		707.5	55.697	0.960	56.286	0.936	-1.06%	2.51%
		709	55.691	0.960	56.226	0.938	-0.96%	2.31%
	Jan. 05, 2018	710	55.687	0.960	56.265	0.938	-1.04%	2.32%
		711	55.683	0.960	56.216	0.937	-0.96%	2.43%
		750	55.531	0.963	55.827	0.961	-0.53%	0.25%
		782	55.406	0.966	55.520	0.976	-0.20%	-1.05%
		822.5	55.249	0.969	55.152	1.001	0.18%	-3.30%
		826.4	55.234	0.969	55.174	1.005	0.11%	-3.68%
		829	55.223	0.970	55.093	1.006	0.24%	-3.76%
		831.5	55.214	0.970	55.084	1.010	0.23%	-4.15%
	lam 00 0010	835	55.200	0.970	55.025	1.010	0.32%	-4.12%
	Jan. 08, 2018	836.5	55.195	0.972	55.020	1.012	0.32%	-4.13%
		836.6	55.195	0.972	55.020	1.012	0.32%	-4.12%
Body		841.5	55.180	0.978	55.021	1.017	0.29%	-3.99%
		844	55.172	0.981	54.944	1.018	0.41%	-3.76%
		846.6	55.164	0.984	54.951	1.021	0.39%	-3.73%
		1712.4	53.531	1.465	53.721	1.437	-0.36%	1.89%
		1720	53.511	1.469	53.666	1.438	-0.29%	2.14%
		1732.4	53.478	1.477	53.590	1.448	-0.21%	1.98%
	Jan. 09, 2018	1745	53.445	1.485	53.561	1.452	-0.22%	2.24%
		1750	53.432	1.488	53.551	1.454	-0.22%	2.31%
		1752.6	53.425	1.490	53.546	1.451	-0.23%	2.62%
		1770	53.381	1.501	53.521	1.462	-0.26%	2.60%
		1852.4	53.300	1.520	53.283	1.499	0.03%	1.38%
		1860	53.300	1.520	53.198	1.502	0.19%	1.18%
	Jan. 10, 2018	1880	53.300	1.520	53.158	1.505	0.27%	0.99%
		1900	53.300	1.520	53.022	1.516	0.52%	0.26%
		1907.6	53.300	1.520	53.007	1.517	0.55%	0.20%

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Page: 167 of 328

	Jan. 11, 2018	2300	52.900	1.807	53.461	1.747	-1.06%	3.30%
	0an. 11, 2010	2310	52.887	1.816	53.402	1.763	-0.97%	2.93%
		2412	52.751	1.914	52.898	1.906	-0.28%	0.40%
	Jan. 12, 2018	2437	52.717	1.938	52.874	1.915	-0.30%	1.17%
		2450	52.700	1.950	52.808	1.931	-0.20%	0.97%
		2506	52.629	2.029	52.638	2.008	-0.02%	1.06%
		2510	52.624	2.035	52.604	2.011	0.04%	1.18%
		2535	52.592	2.071	52.530	2.044	0.12%	1.28%
		2549.5	52.573	2.091	52.473	2.061	0.19%	1.44%
		2560	52.560	2.106	52.430	2.074	0.25%	1.52%
	45 0040	2580	52.535	2.134	52.286	2.104	0.47%	1.42%
	Jan. 15, 2018	2593	52.518	2.153	52.278	2.119	0.46%	1.57%
		2595	52.515	2.156	52.268	2.119	0.47%	1.70%
Body		2600	52.509	2.163	52.227	2.124	0.54%	1.79%
		2610	52.496	2.177	52.185	2.142	0.59%	1.61%
		2636.5	52.463	2.214	52.045	2.180	0.80%	1.56%
		2680	52.407	2.276	51.861	2.233	1.04%	1.90%
	Jan. 16, 2018	5200	49.014	5.299	49.587	5.121	-1.17%	3.36%
	Jan. 10, 2016	5230	48.974	5.334	49.559	5.190	-1.20%	2.71%
	Jan. 17, 2018	5270	48.919	5.381	49.460	5.271	-1.11%	2.04%
	Jan. 17, 2016	5300	48.879	5.416	49.371	5.263	-1.01%	2.83%
		5530	48.566	5.685	48.608	5.626	-0.09%	1.03%
	Jan. 18, 2018	5600	48.471	5.766	48.520	5.737	-0.10%	0.51%
	Jan. 10, 2016	5610	48.458	5.778	48.270	5.764	0.39%	0.24%
		5690	48.349	5.872	48.183	5.853	0.34%	0.32%
	Jan. 19, 2018	5775	48.234	5.971	48.041	6.024	0.40%	-0.89%
	Jan. 13, 2016	5800	48.200	6.000	48.006	6.004	0.40%	-0.07%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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Page: 168 of 328

The composition of the body tissue simulating liquid:

The composition of the body tissue simulating liquid.										
_			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	_	-	1.0L(Kg)		
1900	Body	300.67 g	716.56 g	4.0 g	_	_	_	1.0L(Kg)		
2300	Body	301.7ml	698.3ml	_	1	_	-	1.0L(Kg)		
2450	Body	301.7ml	698.3ml	_	-	_	ı	1.0L(Kg)		
2600	Body	301.7ml	698.3ml	_	_	_	_	1.0L(Kg)		

Simulating Liquids for 5 GHz, Manufactured by SPEAG:

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

Table 3. Recipes for Tissue Simulating Liquid

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Page: 169 of 328

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

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Page: 170 of 328

these cube measurements.

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

The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is 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:

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Page: 171 of 328

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

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about ±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 ±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:

1. The setup must enable accurate determination of the incident power.

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Page: 172 of 328

2. The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.

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

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Page: 173 of 328

1.13 Test Standards and Limits

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

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

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Page: 174 of 328

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) of this section. (Table 4.)

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

Table 4. RF exposure limits

Notes:

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

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Page: 175 of 328

2. Summary of Results

WCDMA Band II (without power reduction)

Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
WCDMA Band II	Bottom side	14	9262	1852.4	24.00	23.93	1.62%	0.752	0.764	-

WCDMA Band II (with power reduction)

Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1, (W/	g	Plot page
					Tolerance (abin)	(dBm)		Measured	Reported	
	Bottom side	0	9262	1852.4	16.50	16.49	0.23%	1.190	1.193	204
WCDMA	Bottom side*	0	9262	1852.4	16.50	16.49	0.23%	1.170	1.173	-
Band II	Bottom side	0	9400	1880	16.50	16.32	4.23%	1.020	1.063	-
	Bottom side	0	9538	1907.6	16.50	16.26	5.68%	1.120	1.184	-

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

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Page: 176 of 328

WCDMA Band IV (without power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
WCDMA Band VI	Bottom side	14	1513	1752.6	24.00	23.99	0.23%	0.650	0.651	-

WCDMA Band IV (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	1	•	Plot page
	Bottom side	0	1312	1712.4	16.50	16.30	4.71%	0.838	0.877	-
WCDMA	Bottom side	0	1412	1732.4	16.50	16.38	2.80%	0.864	0.888	-
Band VI	Bottom side	0	1513	1752.6	16.50	16.49	0.23%	1.040	1.042	205
	Bottom side*	0	1513	1752.6	16.50	16.49	0.23%	1.000	1.002	-

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

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Page: 177 of 328

WCDMA Band V (without power reduction)

Mode	Position	Distanc e (mm)		Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g 'kg)	Plot page
VCDMA Band V	Bottom side	14	4132	826.4	24.00	23.55	10.92%	0.404	0.448	-

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/ Measured	g	Plot page
	Bottom side	0	4132	826.4	21.50	21.49	0.23%	1.050	1.052	206
WCDMA	Bottom side*	0	4132	826.4	21.50	21.49	0.23%	0.999	1.001	-
Band 5	Bottom side	0	4183	836.6	21.50	21.25	5.93%	0.951	1.007	-
	Bottom side	0	4233	846.6	21.50	21.43	1.62%	0.935	0.950	-

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

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Page: 178 of 328

LTE FDD Band 2 (without power reduction)

Mode	Bandwidth	Modulation	RB	RB	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg.	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
Mode	(MHz)	Modulation	Size	start	1 Ostiloti	(mm)	0	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	ŭ	Measured	Reported	page
			1 RB	0	Bottom side	14	18700	1860	24.000	23.66	8.14%	0.673	0.728	-
LTE Band 2	20MHz	QPSK	50 RB	25	Bottom side	14	18700	1860	23.000	22.42	14.29%	0.577	0.659	-
			100	RB	Bottom side	14	18700	1860	23.000	22.50	12.20%	0.561	0.629	-

LTE FDD Band 2 (with power reduction)

Mode	Bandwidth	Modulation	DR Sizo	DR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling		SAR over V/kg)	Plot
Wode	(MHz)	viodulatioi	TID SIZE	TID Start	i osition	(mm)	GII	(MHz)	Max. Toleranc e (dBm)	Power	ŭ	Measured	Reported	page
				Bottom side	0	18700	1860	17.00	16.96	0.93%	1.100	1.110	207	
		1 RB	0	Bottom side*	0	18700	1860	17.00	16.96	0.93%	1.080	1.090		
			1110		Bottom side	0	18900	1880	17.00	16.52	11.69%	1.030	1.150	-
				99	Bottom side	0	19100	1900	17.00	16.42	14.29%	1.010	1.154	-
LTE Band2	20MHz	QPSK		0	Bottom side	0	18700	1860	17.00	16.68	7.65%	0.995	1.071	-
LIL Danuz	201011 12	QI SIN	50 RB	U	Bottom side	0	18900	1880	17.00	16.57	10.41%	0.971	1.072	-
				50	Bottom side	0	19100	1900	17.00	16.35	16.14%	0.969	1.125	-
				Bottom side	0	18700	1860	17.00	16.66	8.14%	0.943	1.020	-	
		100	RB	Bottom side	0	18900	1880	17.00	16.66	8.14%	0.920	0.995	-	
				Bottom side	0	19100	1900	17.00	16.42	14.29%	0.897	1.025	-	

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

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Page: 179 of 328

LTE FDD Band 5 (without power reduction)

Mode	Bandwidth	Modulation	RR Siza	RR etart	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
IVIOGE	(MHz)	viodulation	TID SIZE	TID Start	i Osidori	(mm)	OH	(MHz)	Max. Toleranc e (dBm)	Power	ŭ	Measured	Reported	page
			1 RB	49	Bottom side	14	20600	844	24.00	23.10	23.03%	0.330	0.406	-
LTE Band 5	10MHz	QPSK	25 RB	25	Bottom side	14	20600	844	23.00	22.11	22.74%	0.344	0.422	-
			50	RB	Bottom side	14	20600	844	23.00	21.99	26.18%	0.309	0.390	-

LTE FDD Band 5 (with power reduction)

Mode	Bandwidth	Modulation	DR Sizo	DR ctart	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling		SAR over V/kg)	Plot
ivioue	(MHz)	viodulatioi	ND SIZE	ND Start	r osidon	(mm)	5	(MHz)	Max. Toleranc e (dBm)	Power	Scalling	Measured	Reported	page
			0	Bottom side	0	20450	829	22.00	21.98	0.46%	1.010	1.015	208	
			1 RB	U	Bottom side*	0	20450	829	22.00	21.98	0.46%	0.998	1.003	-
			IND	25	Bottom side	0	20525	836.5	22.00	21.89	2.57%	0.985	1.010	-
				49	Bottom side	0	20600	844	22.00	21.96	0.93%	0.957	0.966	-
LTE Band5	10MHz	QPSK		0	Bottom side	0	20450	829	22.00	21.88	2.80%	0.963	0.990	-
LTL Ballus	I OIVII IZ	QFSK	25 RB	U	Bottom side	0	20525	836.5	22.00	21.70	7.15%	0.931	0.998	-
				25	Bottom side	0	20600	844	22.00	21.90	2.33%	0.912	0.933	-
				Bottom side	0	20450	829	22.00	21.85	3.51%	0.954	0.988	-	
		50	RB	Bottom side	0	20525	836.5	22.00	21.72	6.66%	0.922	0.983	-	
					Bottom side	0	20600	844	22.00	21.80	4.71%	0.918	0.961	-

⁻ repeated at the highest SAR measurement according to the KDB 865664 D01

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Page: 180 of 328

LTE FDD Band 7 (without power reduction)

Mode	Bandwidth	Modulation	RR Siza	RR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
	(MHz)	Modulatior	TID SIZE	TID SIGIL	i Osidoli	(mm)	OH	(MHz)	Max. Toleranc e (dBm)	Power	· ·	Measured	Reported	page
			1 RB	99	Bottom side	14	21100	2535	24.00	23.07	23.88%	0.628	0.778	-
LTE Band7	20MHz	QPSK	50 RB	0	Bottom side	14	21350	2560	23.00	21.86	30.02%	0.588	0.764	-
			100)RB	Bottom side	14	21350	2560	23.00	21.89	29.12%	0.572	0.739	-

LTE FDD Band 7 (with power reduction)

Mode	Bandwidth (MHz)	Modulation	1RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Toleranc e (dBm)	Measure d Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot
												Measured	Reported	page
LTE Band7	20MHz	QPSK	1 RB	0	Bottom side	0	21100	2535	17.50	17.49	0.23%	1.160	1.163	209
					Bottom side*	0	21100	2535	17.50	17.49	0.23%	1.090	1.093	-
					Bottom side	0	21350	2560	17.50	17.47	0.69%	1.150	1.158	-
				99	Bottom side	0	20850	2510	17.50	17.44	1.39%	0.995	1.009	-
			50 RB	25	Bottom side	0	21350	2560	17.50	17.45	1.16%	0.894	0.904	-
				50	Bottom side	0	20850	2510	17.50	17.31	4.47%	0.915	0.956	-
					Bottom side	0	21100	2535	17.50	17.28	5.20%	0.993	1.045	-
			100 RB		Bottom side	0	20850	2510	17.50	17.34	3.75%	0.897	0.931	-
					Bottom side	0	21100	2535	17.50	17.32	4.23%	0.952	0.992	-
					Bottom side	0	21350	2560	17.50	17.41	2.09%	0.873	0.891	-

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

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Page: 181 of 328

LTE FDD Band 12 (without power reduction)

Mode	Bandwidth	Modulation	DD Sizo	DP start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V		Plot
Mode	(MHz)	viodulatioi	ND SIZE	nd Start	FUSILIUIT	(mm)	ОП	(MHz)	Max. Toleranc e (dBm)	Power	· ·	Measured	Reported	page
			1 RB	49	Bottom side	14	23095	707.5	24.00	23.18	20.78%	0.368	0.444	-
LTE Band12	10MHz	QPSK	25 RB	0	Bottom side	14	23060	704	23.00	22.10	23.03%	0.336	0.413	-
			50	RB	Bottom side	14	23130	711	23.00	22.17	21.06%	0.332	0.402	-

LTE FDD Band 12 (with power reduction)

Mode	Bandwidth	Modulation	DD Cino	DD atout	Position	Distance	СН	Freq.	Max. Rated Avg.	Measure d	Cooling	Ü	SAR over V/kg)	Plot
woue	(MHz)	viodulatioi	ND SIZE	ND Start	FOSILIOIT	(mm)	Оп	(MHz)	Power + Max. Toleranc e (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	page
				0	Bottom side	0	23130	711	19.50	19.25	5.93%	0.858	0.909	210
		1 RB	U	Bottom side*	0	23130	711	19.50	19.25	5.93%	0.849	0.899	-	
			IND	25	Bottom side	0	23060	704	19.50	19.32	4.23%	0.789	0.822	-
				49	Bottom side	0	23095	707.5	19.50	19.49	0.23%	0.823	0.825	-
LTE Banf12	10MHz	QPSK		0	Bottom side	0	23060	704	19.50	19.18	7.65%	0.744	0.801	-
LIL Dalli 12	I OIVII IZ	QFSR	25 RB	U	Bottom side	0	23.95	707.5	19.50	19.13	8.89%	0.670	0.730	-
				12	Bottom side	0	23130	711	19.50	19.08	10.15%	0.744	0.820	-
					Bottom side	0	23060	704	19.50	19.16	8.14%	0.601	0.650	-
			50	RB	Bottom side	0	23095	707.5	19.50	19.10	9.65%	0.552	0.605	-
				Bottom side	0	23130	711	19.50	19.17	7.89%	0.760	0.820	-	

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

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SGS Taiwan Ltd.



Page: 182 of 328

LTE FDD Band 13 (without power reduction)

Mode	Bandwidth	Modulation	RR Size	RR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg. Power	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
ivioue	(MHz)	viodulatioi	ND SIZE	no start	rosidon	(mm)	OH	(MHz)	Max. Toleranc e (dBm)	(dBm)		Measured	Reported	page
			1 RB	49	Bottom side	14	23230	782	24.00	23.08	23.59%	0.366	0.452	-
LTE Band13	10MHz	QPSK	25 RB	25	Bottom side	14	23230	782	23.00	21.98	26.47%	0.348	0.440	-
			50	RB	Bottom side	14	23230	782	23.00	22.13	22.18%	0.351	0.429	-

LTE FDD Band 13 (with power reduction)

Mode	Bandwidth	Modulation	. DR Sizo	RR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg. Power	Scaling	•	SAR over V/kg)	Plot
ivioue	(MHz)	viodulatioi	TID SIZE	TID Start	i osidori	(mm)	5	(MHz)	Max. Toleranc e (dBm)	(dBm)		Measured	Reported	page
				0	Bottom side	0	23230	782	20.50	20.47	0.69%	0.903	0.909	211
			1 RB	0	Bottom side*	0	23230	782	20.50	20.47	0.69%	0.900	0.906	-
			ווט	25	Bottom side	0	23230	782	20.50	20.48	0.46%	0.865	0.869	-
LTE Band13	10MHz	QPSK		49	Bottom side	0	23230	782	20.50	20.46	0.93%	0.771	0.778	-
LIL Dallu 13	1 UIVII 12	QFSK		0	Bottom side	0	23230	782	20.50	20.17	7.89%	0.820	0.885	-
			25 RB	12	Bottom side	0	23230	782	20.50	19.92	14.29%	0.785	0.897	-
				25	Bottom side	0	23230	782	20.50	19.94	13.76%	0.711	0.809	-
			50	RB	Bottom side	0	23230	782	20.50	19.94	13.76%	0.811	0.923	-

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

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SGS Taiwan Ltd.



Page: 183 of 328

LTE FDD Band 17 (without power reduction)

Mode	Bandwidth	Modulation	RR Siza	RR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg. Power	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
ivioue	(MHz)	viodulatioi	ND SIZE	ND Start	r osition	(mm)	OH	(MHz)	Max. Toleranc e (dBm)	(dBm)	ŭ	Measured	Reported	page
			1 RB	49	Bottom side	14	23780	709	24.00	23.12	22.46%	0.369	0.452	-
LTE Band 17	10MHz	QPSK	25 RB	25	Bottom side	14	23800	711	23.00	22.10	23.03%	0.349	0.429	-
			50	RB	Bottom side	14	23790	710	23.00	22.17	21.06%	0.348	0.421	-

LTE FDD Band 17 (with power reduction)

Mode	Bandwidth	Modulation	RR Siza	RR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg. Power	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
Would	(MHz)	viodulatioi	TID SIZE	TID Start	i osidon	(mm)	OH	(MHz)	Max. Toleranc e (dBm)	(dBm)	ŭ	Measured	Reported	page
					Bottom side	0	23780	709	19.50	19.34	3.75%	0.828	0.859	212
			1 RB	49	Bottom side*	0	23780	709	19.50	19.34	3.75%	0.819	0.850	-
			TILD	43	Bottom side	0	23790	710	19.50	19.29	4.95%	0.679	0.713	-
LTE Band17	10MHz	QPSK			Bottom side	0	23800	711	19.50	19.48	0.46%	0.809	0.813	-
LIL Ballul7	I OIVII IZ	QI SIX			Bottom side	0	23780	709	19.50	19.34	3.75%	0.809	0.839	-
			25 RB	25	Bottom side	0	23790	710	19.50	19.35	3.51%	0.676	0.700	-
					Bottom side	0	23800	711	19.50	19.30	4.71%	0.797	0.835	-
			50	RB	Bottom side	0	23800	711	19.50	19.35	3.51%	0.762	0.789	-

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

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SGS Taiwan Ltd.



Page: 184 of 328

LTE FDD Band 26 (without power reduction)

Mode	Bandwidth	Modulation	RR Siza	RR etart	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg.	Scaling	Averaged 1g (V		Plot
ivioue	(MHz)	viodulatioi	TID SIZE	חט אמונ	i osidon	(mm)	OH	(MHz)	Max. Tolerance (dBm)	Power (dBm)	· ·	Measured	Reported	page
			1 RB	0	Bottom side	14	26825	822.5	24.00	23.11	22.74%	0.358	0.439	-
LTE Band26	15MHz	QPSK	36 RB	0	Bottom side	14	26865	831.5	23.00	22.15	21.62%	0.338	0.411	-
			75	RB	Bottom side	14	26825	822.5	23.00	22.20	20.23%	0.336	0.404	-

LTE FDD Band 26 (with power reduction)

Mode	Bandwidth	Madulation	DD Cine	DD stort	Docition	Distance	СН	Freq.	Avg.	Measured Avg.		Averaged 1g (V	SAR over V/kg)	Plot
Mode	(MHz)	Modulatior	nd Size	nd Start	Position	(mm)	Оп	(MHz)	Power + Max. Tolerance (dBm)	Power (dBm)	Scaling	Measured	Reported	page
				36	Bottom side	0	26825	822.5	21.00	20.83	3.99%	0.956	0.994	-
		1 RB	74	Bottom side	0	26865	831.5	21.00	20.77	5.44%	0.952	1.004	-	
				74	Bottom side	0	26965	841.5	21.00	20.83	3.99%	0.784	0.815	-
					Bottom side	0	26825	822.5	21.00	20.97	0.69%	0.971	0.978	-
LTE Band26	15MHz	QPSK	36 RB	0	Bottom side	0	26865	831.5	21.00	20.81	4.47%	0.977	1.021	213
LTL Ballu20	1 JIVII 12	QI SIN	30 110		Bottom side*	0	26865	831.5	21.00	20.81	4.47%	0.973	1.017	-
				18	Bottom side	0	26965	841.5	21.00	20.67	7.89%	0.857	0.925	-
					Bottom side	0	26825	822.5	21.00	20.97	0.69%	0.875	0.881	-
			75	RB	Bottom side	0	26865	831.5	21.00	20.90	2.33%	0.935	0.957	-
					Bottom side	0	26965	841.5	21.00	20.85	3.51%	0.753	0.779	-

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

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Page: 185 of 328

LTE FDD Band 30 (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RR Size	RR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg.	Scaling		SAR over V/kg)	Plot
Wiode	(MHz)	viodulation	TID GIZE	TID Start	i osiuoii	(mm)	5	(MHz)	Max. Tolerance (dBm)	Power (dBm)	·	Measured	Reported	page
			1 RB	0	Bottom side	14	27710	2310	24.00	23.44	13.76%	0.426	0.485	-
LTE Band30	10MHz	QPSK	25 RB	0	Bottom side	14	27710	2310	23.00	22.51	11.94%	0.401	0.449	-
			50	RB	Bottom side	14	27710	2310	23.00	22.31	17.22%	0.411	0.482	-

LTE FDD Band 30 (with power reduction)

Mode	Bandwidth	Modulation	DD Cizo	DP start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg.	Scaling		SAR over V/kg)	Plot
Mode	(MHz)	viodulatioi	ND SIZE	nd Start	POSITION	(mm)	ОП	(MHz)	Max. Tolerance (dBm)	Power (dBm)	Scaling	Measured	Reported	page
				0	Bottom side	0	27710	2310	17.00	16.97	0.69%	0.891	0.897	-
			1 RB	25	Bottom side	0	27710	2310	17.00	16.64	8.64%	1.070	1.162	-
				49	Bottom side	0	27710	2310	17.00	16.63	8.89%	0.845	0.920	-
LTE Band30	15MHz	QPSK		0	Bottom side	0	27710	2310	17.00	16.83	3.99%	0.838	0.871	-
LTL Balluso	I JIVII IZ	QI SIN	25 RB	12	Bottom side	0	27710	2310	17.00	16.79	4.95%	0.967	1.015	-
				25	Bottom side	0	27710	2310	17.00	16.65	8.39%	0.840	0.910	-
			50	RB	Bottom side	0	27710	2310	17.00	16.96	0.93%	1.160	1.171	214
			50	ווט	Bottom side*	0	27710	2310	17.00	16.96	0.93%	1.110	1.120	-

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

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Page: 186 of 328

LTE TDD Band 38 (without power reduction)

Mode	Bandwidth	Modulation	RR Siza	RR etart	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V		Plot
wode	(MHz)	viodulatioi	ND SIZE	no start	rosidon	(mm)	OH	(MHz)	Max. Toleranc e (dBm)	Power (dBm)		Measured	Reported	page
			1 RB	0	Bottom side	14	37850	2580	24.00	23.09	23.31%	0.508	0.626	-
LTE Band38	20MHz	QPSK	50RB	50	Bottom side	14	38150	2610	23.00	22.11	22.74%	0.488	0.599	-
			100)RB	Bottom side	14	38150	2610	23.00	22.14	21.90%	0.474	0.578	-

LTE TDD Band 38 (with power reduction)

Mode	Bandwidth	Modulation	DD Sizo	DR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling		SAR over N/kg)	Plot
Wode	(MHz)	viodulatioi	ND SIZE	ND Start	FOSILIOIT	(mm)	OH	(MHz)	Max. Toleranc e (dBm)	Power (dBm)	ŭ	Measured	Reported	page
				0	Bottom side	0	37850	2580	20.00	19.96	0.93%	1.230	1.241	-
			1 RB	U	Bottom side	0	38150	2610	20.00	19.91	2.09%	1.040	1.062	-
				99	Bottom side	0	38000	2595	20.00	19.87	3.04%	1.080	1.113	-
LTE Band38	20MHz	QPSK			Bottom side	0	37850	2580	20.00	19.83	3.99%	1.191	1.239	215
			50 RB	0	Bottom side*	0	37850	2580	20.00	19.96	0.93%	1.120	1.130	-
			SURB		Bottom side	0	38000	2595	20.00	19.77	5.44%	0.897	0.946	-
				50	Bottom side	0	38150	2610	20.00	19.72	6.66%	0.967	1.031	-

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

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SGS Taiwan Ltd.



Page: 187 of 328

LTE TDD Band 41 (without power reduction)

Mode	Bandwidth	Modulation	DD Sizo	DD stort	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d	Scaling	Averaged 1g (V		Plot
Mode	(MHz)	viodulatioi	ND SIZE	nd Start	POSILIOIT	(mm)	Оп	(MHz)	Max. Toleranc e (dBm)	Avg. Power (dBm)	· ·	Measured	Reported	page
			1 RB	0	Bottom side	14	41055	2636.5	24.00	23.39	15.08%	0.378	0.435	-
LTE Band41	20MHz	QPSK	50 RB	0	Back side	14	41055	2636.5	23.00	22.35	16.14%	0.351	0.408	-
			100)RB	Left side	14	41055	2636.5	23.00	22.30	17.49%	0.355	0.417	-

LTE TDD Band 41 (with power reduction)

Mode	Bandwidth	Modulatior	DD Cizo	DP atort	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d	Cooling	_	SAR over V/kg)	Plot
wode	(MHz)	viodulatioi	nd Size	nd Start	FOSILIOII	(mm)	ОП	(MHz)	Max. Toleranc e (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	page
					Bottom side	0	39750	2506	19.00	18.83	3.99%	1.060	1.102	-
				0	Bottom side	0	40620	2593	19.00	18.65	8.39%	1.020	1.106	-
			1 RB		Bottom side	0	41490	2680	19.00	18.62	9.14%	0.998	1.089	-
			IND	50	Bottom side	0	41055	2636.5	19.00	18.98	0.46%	1.120	1.125	216
				30	Bottom side*	0	41055	2636.5	19.00	18.98	0.46%	1.090	1.095	-
				99	Bottom side	0	40185	2549.5	19.00	18.90	2.33%	0.979	1.002	-
				0	Bottom side	0	39750	2506	19.00	18.46	13.24%	0.990	1.121	-
LTE Band41	20MHz	QPSK		25	Bottom side	0	40620	2593	19.00	18.51	11.94%	0.905	1.013	-
LTE Ballu41	ZUIVIITIZ	QF3N	50 RB	25	Bottom side	0	41055	2636.5	19.00	18.85	3.51%	1.043	1.080	-
				50	Bottom side	0	40185	2549.5	19.00	18.76	5.68%	0.977	1.033	-
				30	Bottom side	0	41490	2680	19.00	18.30	17.49%	0.859	1.009	-
					Bottom side	0	39750	2506	19.00	18.46	13.24%	0.854	0.967	-
					Bottom side	0	40185	2549.5	19.00	18.76	5.68%	0.852	0.900	-
			100	RB	Bottom side	0	40620	2593	19.00	18.54	11.17%	0.857	0.953	-
					Bottom side	0	41055	2636.5	19.00	18.86	3.28%	0.899	0.928	-
					Bottom side	0	41490	2680	19.00	18.34	16.41%	0.761	0.886	-

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

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Page: 188 of 328

LTE FDD Band 66 (without power reduction)

Mode	Bandwidth	Modulation	DR Sizo	RR etart	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling	Averaged 1g (V	SAR over V/kg)	Plot
Wode	(MHz)	viouuiatioi	nd Size	no start	FOSILIOIT	(mm)	OII	(MHz)	Max. Toleranc e (dBm)	Power	Ů	Measured	Reported	page
			1 RB	99	Bottom side	14	132322	1745	24.00	23.50	12.20%	0.530	0.595	-
LTE Band 66	20MHz	QPSK	50 RB	50	Bottom side	14	132322	1745	23.00	22.38	15.35%	0.482	0.556	-
			100	RB	Bottom side	14	132572	1770	23.00	22.54	11.17%	0.493	0.548	-

LTE FDD Band 66 (with power reduction)

Mode	Bandwidth	Modulatior	DD Sizo	DR start	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measure d Avg.	Scaling		SAR over V/kg)	Plot
Wode	(MHz)	viodulation	TID SIZE	TID Start	i osidon	(mm)	611	(MHz)	Max. Toleranc e (dBm)	Power	ŭ	Measured	Reported	page
				50	Bottom side	0	132072	1720	17.50	17.34	3.75%	1.020	1.058	-
			1 RB	30	Bottom side	0	132322	1745	17.50	17.23	6.41%	1.030	1.096	-
			1110	99	Bottom side	0	132572	1770	17.50	17.47	0.69%	1.160	1.168	217
				33	Bottom side*	0	132572	1770	17.50	17.47	0.69%	1.110	1.118	-
LTE Band66	20MHz	QPSK		0	Bottom side	0	132572	1770	17.50	17.39	2.57%	1.031	1.057	-
LIL Balluoo	ZUIVII IZ	QFSIX	50 RB	25	Bottom side	0	132072	1720	17.50	17.19	7.40%	0.903	0.970	-
				50	Bottom side	0	132322	1745	17.50	17.41	2.09%	0.945	0.965	-
					Bottom side	0	132072	1720	17.50	17.36	3.28%	0.848	0.876	-
			100	RB	Bottom side	0	132322	1745	17.50	17.38	2.80%	0.857	0.881	-
					Bottom side	0	132572	1770	17.50	17.45	1.16%	0.907	0.918	-

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

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Page: 189 of 328

WLAN Main Antenna

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
			(111111)		(IVII IZ)	Tolerance (dBm)	(dBm)		Measured	Reported	page
	WLAN 802.11b	Bottom sdie	0	6	2437	17.5	17.44	101.39%	0.019	0.019	218
	WLAN 802.11n(40M) 5.2G	Bottom sdie	0	46	5230	16.5	16.48	100.46%	0.031	0.031	219
	WLAN 802.11n(40M) 5.3G	Bottom sdie	0	54	5270	16.5	16.47	100.69%	0.030	0.030	220
Main	WLAN	Bottom sdie	0	106	5530	13.5	13.35	103.51%	0.015	0.016	-
	802.11ac(80M)	Bottom sdie	0	122	5610	16.5	16.23	106.41%	0.061	0.065	-
	5.6G	Bottom sdie	0	138	5690	16.5	16.48	100.46%	0.070	0.070	221
	WLAN 802.1ac(80M) 5.8G	Bottom sdie	0	155	5775	16.5	16.49	100.23%	0.047	0.047	222

WLAN Aux Antenna

11 -	Aux Antenn	ч									
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)		(1011 12)	Tolerance (dBm)	(dBm)		Measured	Reported	paye
	WLAN 802.11b	Bottom sdie	0	6	2437	17.5	17.49	100.23%	0.013	0.013	223
	Bluetooth(GFSK)	Bottom sdie	0	0	2412	5.1	4.37	118.30%	0.001	0.001	224
	WLAN 802.11n(40M) 5.2G	Bottom sdie	0	46	5230	16.5	16.49	100.23%	0.023	0.023	225
Aux	WLAN 802.11n(40M) 5.3G	Bottom sdie	0	54	5270	16.5	16.47	100.69%	0.024	0.024	226
	WLAN 802.11ac(80M)	Bottom sdie	0	138	5690	16.5	16.48	100.46%	0.043	0.043	227
	WLAN 802.1ac(80M) 5.8G	Bottom sdie	0	155	5775	16.5	16.46	100.93%	0.024	0.024	228

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Page: 190 of 328

3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

NO.	Simultaneous Transmit Configurations	Body
1	UMTS + 2.4GHz WLAN Main / 2.4GHz WLAN Aux / 2.4GHz MIMO	YES
2	UMTS + 5GHz WLAN Main / 5GHz WLAN Aux / 5GHz MIMO	YES
3	UMTS + BT	YES
4	UMTS + 2.4/5GHz WLAN Maiin + BT	YES
5	LTE + 2.4GHz WLAN Main / 2.4GHz WLAN Aux / 2.4GHz MIMO	YES
6	LTE + 5GHz WLAN Main / 5GHz WLAN Aux / 5GHz MIMO	YES
7	LTE + BT	YES
8	LTE + 2.4/5GHz WLAN Main + BT	YES

Note:

- 1) WWAN and WLAN may transmit simultaneously.
- 2) Bluetooth and WLAN Aux share the same antenna path.
- 3) Bluetooth can transmit with WLAN Main simultaneously.

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Page: 191 of 328

3.1 Estimated SAR calculation

According to KDB447498 D01 – 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 =
$$\frac{\text{Max.tune up power(mW)}}{\text{Min.test separation distance(mm)}} \times \frac{\sqrt{f(GHz)}}{7.5}$$

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

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Page: 192 of 328

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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Page: 193 of 328

WCDMA Band II + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
1	WCDMA Band II	Bottom side	0	1.193	0.019	0.013	1.225	ΣSAR<1.6, Not required

WCDMA Band IV + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
2	WCDMA Band IV	Bottom side	0	1.042	0.019	0.013	1.074	ΣSAR<1.6, Not required

WCDMA Band V + 2.4GHz WLAN MIMO

No	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
3	WCDMA Band V	Bottom side	0	1.052	0.019	0.013	1.084	ΣSAR<1.6, Not required

LTE FDD Band 2 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
4	LTE FDD Band2	Bottom side	0	0.728	0.019	0.013	0.760	ΣSAR<1.6, Not required

LTE FDD Band 5 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
5	LTE FDD Band 5	Bottom side	0	1.015	0.019	0.013	1.047	ΣSAR<1.6, Not required

LTE FDD Band 7 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
6	LTE FDD Band 7	Bottom side	0	1.163	0.019	0.013	1.195	ΣSAR<1.6, Not required

LTE FDD Band 12 + 2.4GHz WLAN MIMO

No	. Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
7	LTE FDD Band 12	Bottom side	0	0.909	0.019	0.013	0.941	ΣSAR<1.6, Not required

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Page: 194 of 328

LTE FDD Band 13 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
8	LTE FDD Band 13	Bottom side	0	0.923	0.019	0.013	0.955	Analyzed as below

LTE FDD Band 17 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
9	LTE FDD Band 17	Bottom side	0	0.859	0.019	0.013	0.891	ΣSAR<1.6, Not required

LTE FDD Band 26 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
10	LTE FDD Band 26	Bottom side	0	1.021	0.019	0.013	1.053	ΣSAR<1.6, Not required

LTE FDD Band 30 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
11	LTE FDD Band 30	Bottom side	0	1.171	0.019	0.013	1.203	ΣSAR<1.6, Not required

LTE FDD Band 38 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
12	LTE FDD Band 38	Bottom side	0	1.239	0.019	0.013	1.271	ΣSAR<1.6, Not required

LTE TDD Band 41 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
13	LTE FDD Band 41	Bottom side	0	1.125	0.019	0.013	1.157	ΣSAR<1.6, Not required

LTE FDD Band 66 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
14	LTE FDD Band 66	Bottom side	0	1.168	0.019	0.013	1.200	ΣSAR<1.6, Not required

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Page: 195 of 328

WCDMA Band II + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
15	WCDMA Band II	Bottom side	0	1.193	0.070	0.043	1.306	ΣSAR<1.6, Not required

WCDMA Band IV + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
16	WCDMA Band IV	Bottom side	0	1.042	0.070	0.043	1.155	ΣSAR<1.6, Not required

WCDMA Band V + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
17	WCDMA Band V	Bottom side	0	1.052	0.070	0.043	1.165	ΣSAR<1.6, Not required

LTE FDD Band 2 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
18	LTE FDD Band 2	Bottom side	0	0.728	0.070	0.043	0.841	ΣSAR<1.6, Not required

LTE FDD Band 5 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
19	LTE FDD Band 5	Bottom side	0	1.015	0.070	0.043	1.128	ΣSAR<1.6, Not required

LTE FDD Band 7 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
20	LTE FDD Band 7	Bottom side	0	1.163	0.070	0.043	1.276	ΣSAR<1.6, Not required

LTE FDD Band 12 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
21	LTE FDD Band 12	Bottom side	0	0.909	0.070	0.043	1.022	ΣSAR<1.6, Not required

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Page: 196 of 328

LTE FDD Band 13 + 5GHz WLAN MIMO

No	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
22	LTE FDD Band 13	Bottom side	0	0.923	0.070	0.043	1.036	ΣSAR<1.6, Not required

LTE FDD Band 17 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
23	LTE FDD Band 17	Bottom side	0	0.859	0.070	0.043	0.972	ΣSAR<1.6, Not required

LTE FDD Band 26 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
24	LTE FDD Band 26	Bottom side	0	1.021	0.070	0.043	1.134	ΣSAR<1.6, Not required

LTE FDD Band 30 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
25	LTE FDD Band 30	Bottom side	0	1.171	0.070	0.043	1.284	ΣSAR<1.6, Not required

LTE FDD Band 38 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
26	LTE FDD Band 38	Bottom side	0	1.239	0.070	0.043	1.352	ΣSAR<1.6, Not required

LTE TDD Band 41 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
27	LTE FDD Band 41	Bottom side	0	1.125	0.070	0.043	1.238	ΣSAR<1.6, Not required

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Page: 197 of 328

LTE FDD Band 66 + 5GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
28	LTE FDD Band 66	Bottom side	0	1.168	0.070	0.043	1.281	ΣSAR<1.6, Not required

WCDMA Band II + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
29	WCDMA Band II	Bottom side	0	1.193	0.019	0.001	1.213	ΣSAR<1.6, Not required

WCDMA Band IV + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
30	WCDMA Band IV	Bottom side	0	1.042	0.019	0.001	1.062	ΣSAR<1.6, Not required

WCDMA Band V + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
31	WCDMA Band V	Bottom side	0	1.052	0.019	0.001	1.072	ΣSAR<1.6, Not required

LTE FDD Band 2 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
32	LTE FDD Band 2	Bottom side	0	0.728	0.019	0.001	0.748	ΣSAR<1.6, Not required

LTE FDD Band 5 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
33	LTE FDD Band 5	Bottom side	0	1.015	0.019	0.001	1.035	ΣSAR<1.6, Not required

LTE FDD Band 7 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
34	LTE FDD Band 7	Bottom side	0	1.163	0.019	0.001	1.183	ΣSAR<1.6, Not required

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Page: 198 of 328

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No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
35	LTE FDD Band 12	Bottom side	0	0.909	0.019	0.001	0.929	ΣSAR<1.6, Not required

LTE FDD Band 13 + BT + 2.4GHz WLAN Aux

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
36	LTE FDD Band 13	Bottom side	0	0.923	0.019	0.001	0.943	ΣSAR<1.6, Not required

LTE FDD Band 17 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
37	LTE FDD Band 17	Bottom side	0	0.859	0.019	0.001	0.879	ΣSAR<1.6, Not required

LTE FDD Band 26 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
38	LTE FDD Band 26	Bottom side	0	1.021	0.019	0.001	1.041	ΣSAR<1.6, Not required

LTE FDD Band 30 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
39	LTE FDD Band 30	Bottom side	0	1.171	0.019	0.001	1.191	ΣSAR<1.6, Not required

LTE FDD Band 38 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
40	LTE FDD Band 38	Bottom side	0	1.239	0.019	0.001	1.259	ΣSAR<1.6, Not required

LTE FDD Band 41 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
41	LTE FDD Band 41	Bottom side	0	1.125	0.019	0.001	1.145	ΣSAR<1.6, Not required

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Page: 199 of 328

LTE FDD Band 66 + 2.4GHz WLAN Main + BT

١	No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
4	42	LTE FDD Band 66	Bottom side	0	1.168	0.019	0.001	1.188	ΣSAR<1.6, Not required

WCDMA Band II + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
43	WCDMA Band II	Bottom side	0	1.193	0.070	0.001	1.264	ΣSAR<1.6, Not required

WCDMA Band IV + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
44	WCDMA Band IV	Bottom side	0	1.042	0.070	0.001	1.113	ΣSAR<1.6, Not required

WCDMA Band V + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
45	WCDMA Band V	Bottom side	0	1.052	0.070	0.001	1.123	ΣSAR<1.6, Not required

LTE FDD Band 2 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
46	LTE FDD Band 2	Bottom side	0	0.728	0.070	0.001	0.799	ΣSAR<1.6, Not required

LTE FDD Band 5 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
47	LTE FDD Band 5	Bottom side	0	1.015	0.070	0.001	1.086	ΣSAR<1.6, Not required

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Page: 200 of 328

LTE FDD Band 7 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
48	LTE FDD Band 7	Bottom side	0	1.163	0.070	0.001	1.234	ΣSAR<1.6, Not required

LTE FDD Band 12 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
49	LTE FDD Band 12	Bottom side	0	0.909	0.070	0.001	0.980	ΣSAR<1.6, Not required

LTE FDD Band 13 + 5GHz WLAN Main + BT

No	. Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
50	LTE FDD Band 13	Bottom side	0	0.923	0.070	0.001	0.994	ΣSAR<1.6, Not required

LTE FDD Band 17 + 5GHz WLAN Main + BT

1	No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
	51	LTE FDD Band 17	Bottom side	0	0.859	0.070	0.001	0.930	ΣSAR<1.6, Not required

LTE FDD Band 26 + 5GHz WLAN Main + BT

I	No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
	52	LTE FDD Band 26	Bottom side	0	1.021	0.070	0.001	1.092	ΣSAR<1.6, Not required

LTE FDD Band 30 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
53	LTE FDD Band 30	Bottom side	0	1.171	0.070	0.001	1.242	ΣSAR<1.6, Not required

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Page: 201 of 328

LTE FDD Band 38 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
54	LTE FDD Band 38	Bottom side	0	1.239	0.070	0.001	1.310	ΣSAR<1.6, Not required

LTE FDD Band 41 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
55	LTE FDD Band 41	Bottom side	0	1.125	0.070	0.001	1.196	ΣSAR<1.6, Not required

LTE FDD Band 66 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
56	LTE FDD Band 66	Bottom side	0	1.168	0.070	0.001	1.239	ΣSAR<1.6, Not required

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is ≤ 0.04 for all circumstances that require SPLSR calculation.

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Page: 202 of 328

4. Instruments List

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration					
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	7351	Dec.21,2017	Dec.20,2018					
		D750V2	1015	Aug.21,2017	Aug.20,2018					
		D835V2	4d063	Aug.21,2017	Aug.20,2018					
		D1750V2	1008 Aug.21,20	Aug.21,2017	Aug.20,2018					
Schmid & Partner	System Validation	D1900V2	5d173	May.31,2017	May.30,2018					
Engineering AG	Dipole	D2300V2	1023	Aug.17,2017	Aug.16,2018					
		D2450V2	727	Apr.21,2017	Apr.20,2018					
		D2600V2	1005 Jan.25,2017	Jan.24,2018						
	D50	D5GHzV2	1023	Jan.20,2017	Jan.19,2018					
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547	Mar.22,2017	Mar.21,2017					
Schmid & Partner Engineering AG	Software	DASY 52 V52.8.8	N/A	Calibration not required	Calibration not required					
Schmid & Partner Engineering AG	Phantom	ELI	N/A	Calibration not required	Calibration not required					
Agilent	Network Analyzer	E5071C	MY46107530	Jan.20,2017	Jan.19,2018					
Agilent	Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required					

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Page: 203 of 328

				5	5
Manufacturer	Device	Type	Serial	Date of last	
		. 7 0 - 0	number	calibration	calibration
Agilopt	Dual-directional	772D	MY52180142	Apr.13,2017	Apr.12,2018
Agilent	coupler	778D	MY52180302	Apr.13,2017	Apr.12,2018
Agilent	RF Signal Generator	N5181A	MY50144143	Mar.01,2017	Feb.28,2018
Agilent	Power Meter	E4417A	MY52240003	Dec.21,2017	Dec.20,2018
A - 11 1	Power Sensor		MY52200003	Dec.21,2017	Dec.20,2018
Agilent		E9301H	MY52200004	Dec.21,2017	Dec.20,2018
TECPEL	Digital thermometer	DTM-303A	TP130075	Mar.09,2017	Mar.08,2018
	Radio				
Anritsu	Communication	E5515C	GB44051912	Aug.23,2017	Aug.22,2018
	Test				
	Radio				
R&S	Communication	CMW 500	125470	Aug.22,2017	Aug.21,2018
	Test				

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Page: 204 of 328

5. Measurements

Date: 2018/1/10

WCDMA Band II Body Bottom side CH 9262 0mm

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

Medium parameters used: f = 1852.4 MHz; $\sigma = 1.499 \text{ S/m}$; $\epsilon_r = 53.283$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(8.22, 8.22, 8.22); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 2.06 W/kg

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

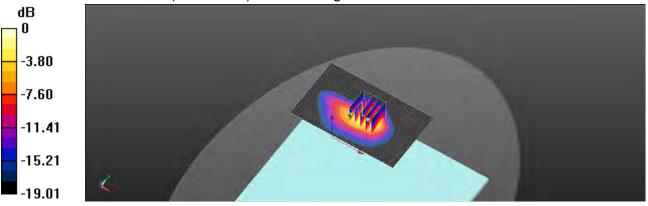
dv=8mm, dz=5mm

Reference Value = 0.3730 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.55 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.532 W/kg

Maximum value of SAR (measured) = 1.59 W/kg



0 dB = 1.59 W/kg = 2.03 dBW/kg

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Page: 205 of 328

Date: 2018/1/9

WCDMA Band IV_Body_Bottom side_CH 1513 0mm

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1753 MHz; $\sigma = 1.451$ S/m; $\varepsilon_r = 53.546$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(8.58, 8.58, 8.58); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 1.80 W/kg

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

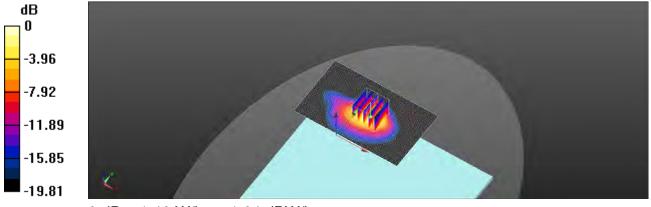
dy=8mm, dz=5mm

Reference Value = 0.5270 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.481 W/kg

Maximum value of SAR (measured) = 1.46 W/kg



0 dB = 1.46 W/kg = 1.64 dBW/kg

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Page: 206 of 328

Date: 2018/1/8

WCDMA Band V_Body_Bottom side_CH 4132_0mm

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: f = 826.4 MHz; $\sigma = 1.005 \text{ S/m}$; $\epsilon_r = 55.174$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(10.39, 10.39, 10.39); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 1.38 W/kg

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

dv=8mm. dz=5mm

Reference Value = 0.7650 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.651 W/kg

Maximum value of SAR (measured) = 1.48 W/kg

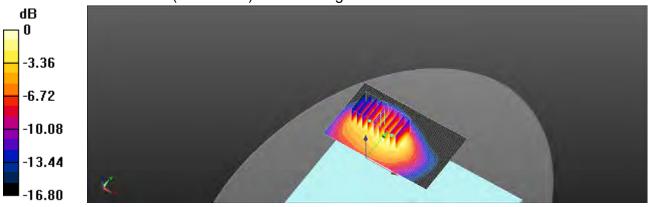
Configuration/Body/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm,

dv=8mm. dz=5mm

Reference Value = 0.7650 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.529 W/kgMaximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

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Page: 207 of 328

Date: 2018/1/10

LTE Band 2 (20MHz) Body Bottom side CH 18700 QPSK 1-0 0mm

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

Medium parameters used: f = 1860 MHz; $\sigma = 1.502 \text{ S/m}$; $\epsilon_r = 53.198$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(8.22, 8.22, 8.22); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.58 W/kg

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

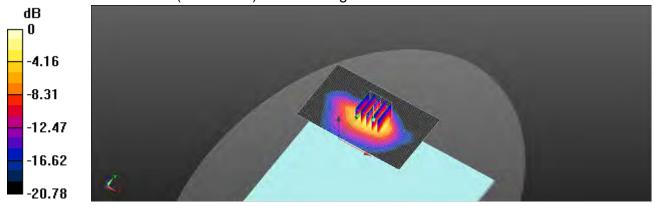
dy=8mm, dz=5mm

Reference Value = 0.4260 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.478 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.84 dBW/kg

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Page: 208 of 328

Date: 2018/1/8

LTE Band 5 (10MHz) Body Bottom side CH 20450 QPSK 1-0 0mm

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

Medium parameters used: f = 829 MHz; $\sigma = 1.006$ S/m; $\varepsilon_r = 55.093$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(10.39, 10.39, 10.39); Calibrated: 2017/12/21;

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 1.28 W/kg

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

dy=8mm, dz=5mm

Reference Value = 0.4140 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.623 W/kg

Maximum value of SAR (measured) = 1.43 W/kg

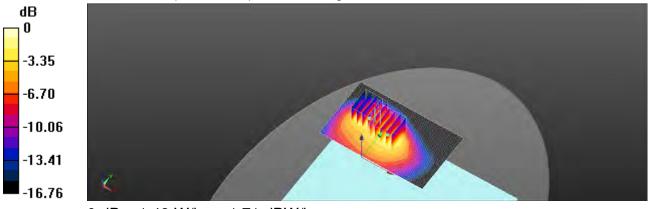
Configuration/Body/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 0.4140 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.536 W/kg Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg = 1.71 dBW/kg

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Page: 209 of 328

Date: 2018/1/15

LTE Band 7 (20MHz)_Body_Bottom side_CH 21100_QPSK_1-0_0mm

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

Medium parameters used: f = 2535 MHz; $\sigma = 2.044$ S/m; $\varepsilon_r = 52.53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(7.56, 7.56, 7.56); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (121x71x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 2.21 W/kg

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

dy=5mm, dz=5mm

Reference Value = 0.4260 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.478 W/kg

Maximum value of SAR (measured) = 1.75 W/kg

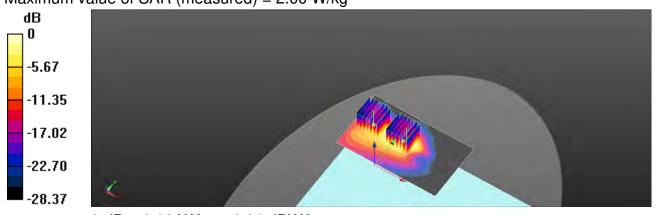
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm,

dv=5mm. dz=5mm

Reference Value = 0.426 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.06 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.432 W/kg Maximum value of SAR (measured) = 2.00 W/kg



0 dB = 2.00 W/kg = 3.00 dBW/kg

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Page: 210 of 328

Date: 2018/1/5

LTE Band 12 (10MHz) Body Bottom side CH 23130 QPSK 1-0 0mm

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

Medium parameters used: f = 711 MHz; $\sigma = 0.937$ S/m; $\varepsilon_r = 56.216$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(10.81, 10.81, 10.81); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 1.07 W/kg

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

dv=8mm. dz=5mm

Reference Value = 1.158 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 q) = 0.858 W/kq; SAR(10 q) = 0.497 W/kq

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

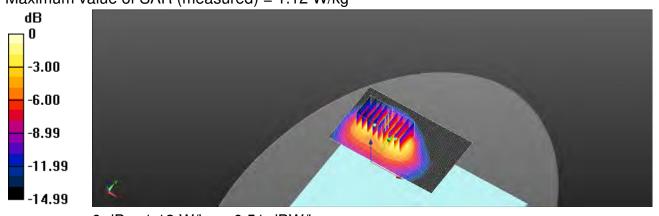
Configuration/Body/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm,

dv=8mm. dz=5mm

Reference Value = 1.158 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.837 W/kg; SAR(10 g) = 0.430 W/kgMaximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.51 dBW/kg

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Page: 211 of 328

Date: 2018/1/5

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

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

Medium parameters used: f = 782 MHz; $\sigma = 0.976 \text{ S/m}$; $\varepsilon_r = 55.52$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.1°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(10.81, 10.81, 10.81); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 1.23 W/kg

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

dy=8mm, dz=5mm

Reference Value = 64.26 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.903 W/kg; SAR(10 g) = 0.558 W/kg

Maximum value of SAR (measured) = 1.26 W/kg

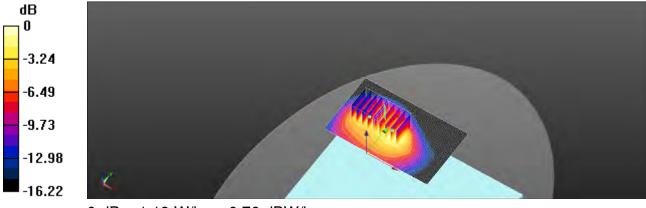
Configuration/Body/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm,

dv=8mm. dz=5mm

Reference Value = 64.26 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.883 W/kg; SAR(10 g) = 0.455 W/kg Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

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Page: 212 of 328

Date: 2018/1/5

LTE Band 17 (10MHz) Body Bottom side CH 23780 QPSK 1-49 0mm

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

Medium parameters used: f = 709 MHz; $\sigma = 0.938$ S/m; $\varepsilon_r = 56.226$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.1°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(10.81, 10.81, 10.81); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 1.03 W/kg

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

dv=8mm. dz=5mm

Reference Value = 1.230 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 q) = 0.828 W/kq; SAR(10 q) = 0.476 W/kq

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

Configuration/Body/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm,

dv=8mm. dz=5mm

-9.20

-12.27

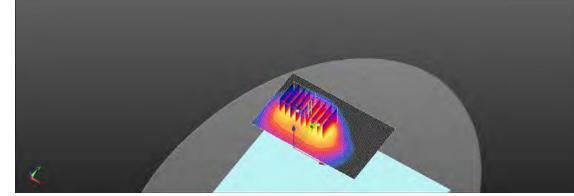
-15.34

Reference Value = 1.230 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.414 W/kgMaximum value of SAR (measured) = 1.07 W/kg

dΒ 0 -3.07 -6.14



0 dB = 1.07 W/kg = 0.30 dBW/kg

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Page: 213 of 328

Date: 2018/1/8

LTE Band 26 (15MHz)_Body_Bottom side_CH 26865_QPSK_36-0_0mm

Communication System: LTE; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 831.5 MHz; $\sigma = 1.01 \text{ S/m}$; $\epsilon_r = 55.084$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(10.39, 10.39, 10.39); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 1.36 W/kg

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

dy=8mm, dz=5mm

Reference Value = 23.71 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.611 W/kg

Maximum value of SAR (measured) = 1.33 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm,

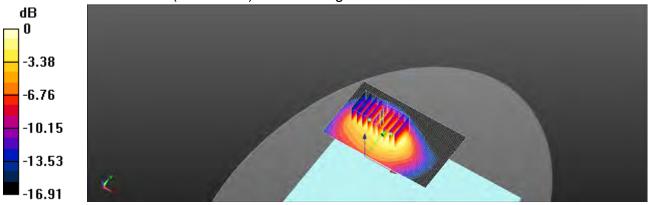
dv=8mm. dz=5mm

Reference Value = 23.71 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.932 W/kg; SAR(10 g) = 0.485 W/kg

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

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Page: 214 of 328

Date: 2018/1/11

LTE Band 30 (10MHz)_Body_Bottom side_CH 27710_QPSK_50-0_0mm

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

Medium parameters used: f = 2310 MHz; $\sigma = 1.763 \text{ S/m}$; $\varepsilon_r = 53.402$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(7.98, 7.98, 7.98); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (121x71x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 2.60 W/kg

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

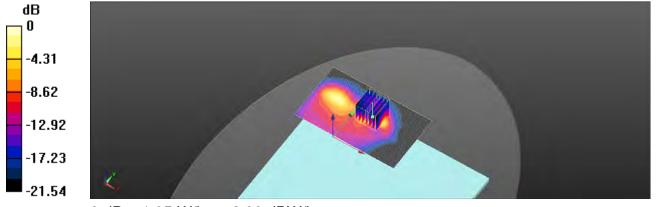
dy=5mm, dz=5mm

Reference Value = 1.470 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.82 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.443 W/kg

Maximum value of SAR (measured) = 1.95 W/kg



0 dB = 1.95 W/kg = 2.90 dBW/kg

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Page: 215 of 328

Date: 2018/1/15

LTE Band 38 (20MHz)_Body_Bottom side_CH 37850_QPSK_1-0_0mm

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

Medium parameters used: f = 2580 MHz; $\sigma = 2.104 \text{ S/m}$; $\epsilon_r = 52.286$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(7.56, 7.56, 7.56); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (121x71x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 2.14 W/kg

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

dy=5mm, dz=5mm

Reference Value = 0.4490 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.09 W/kg

SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.459 W/kg

Maximum value of SAR (measured) = 2.08 W/kg

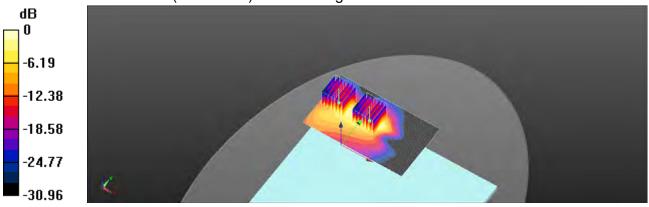
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm,

dv=5mm. dz=5mm

Reference Value = 0.4490 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.58 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.454 W/kg Maximum value of SAR (measured) = 1.69 W/kg



0 dB = 1.69 W/kg = 2.28 dBW/kg

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Page: 216 of 328

Date: 2018/1/15

LTE Band 41 (20MHz) Body Bottom side CH 41055 QPSK 1-50 0mm

Communication System: LTE; Frequency: 2636.5 MHz; Duty Cycle: 1:0.633

Medium parameters used: f = 2636.5 MHz; $\sigma = 2.18 \text{ S/m}$; $\epsilon_r = 52.045$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(7.56, 7.56, 7.56); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x71x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 1.51 W/kg

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

dv=5mm. dz=5mm

Reference Value = 1.483 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.80 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.384 W/kg

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

Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm,

dv=5mm. dz=5mm

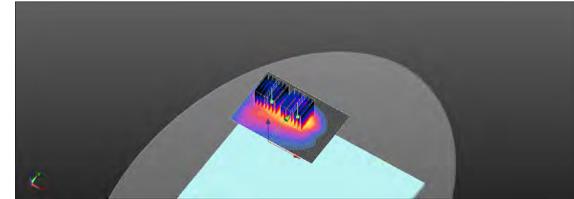
dΒ

Reference Value = 1.483 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.86 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.454 W/kgMaximum value of SAR (measured) = 1.77 W/kg

0 -3.83-7.66-11.48 -15.31 -19.14



0 dB = 1.77 W/kg = 2.49 dBW/kg

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Page: 217 of 328

Date: 2018/1/9

LTE Band 66 (20MHz)_Body_Bottom side_CH 132572_QPSK_1-99_0mm

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

Medium parameters used: f = 1770 MHz; $\sigma = 1.462 \text{ S/m}$; $\epsilon_r = 53.521$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

DASY5 Configuration:

• Probe: EX3DV4 - SN7351; ConvF(8.58, 8.58, 8.58); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 2.02 W/kg

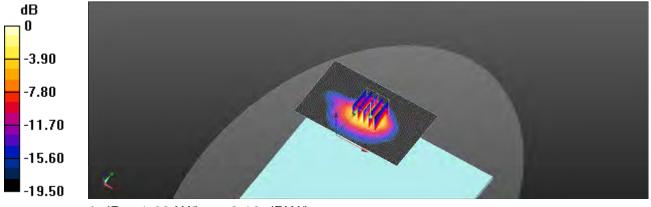
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 0.2580 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.540 W/kg Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.63 W/kg = 2.12 dBW/kg

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Page: 218 of 328

Date: 2018/1/12

WLAN 802.11b_Body Bottom side CH 6 Main 0mm

Communication System: WLAN(2.45G); Frequency: 2437 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2437 MHz; $\sigma = 1.915$ S/m; $\varepsilon_r = 52.874$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(7.82, 7.82, 7.82); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x121x1): Interpolated grid: dx=12 mm, dy=12 mm Maximum value of SAR (interpolated) = 0.0274 W/kg

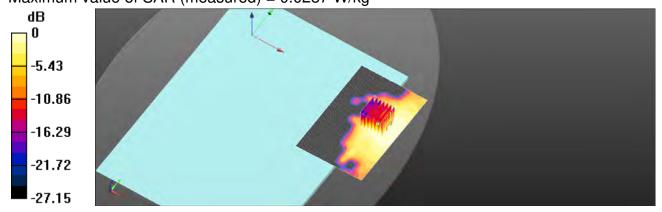
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dv=5mm. dz=5mm

Reference Value = 0.3280 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0400 W/kg

SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.00997 W/kgMaximum value of SAR (measured) = 0.0287 W/kg



0 dB = 0.0287 W/kg = -15.42 dBW/kg

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Page: 219 of 328

Date: 2018/1/16

WLAN 802.11n(40M) 5.2G Body Bottom side CH 46 Main 0mm

Communication System: WLAN(5G); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5230 MHz; $\sigma = 5.19 \text{ S/m}$; $\epsilon_r = 49.559$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(4.6, 4.6, 4.6); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.194 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

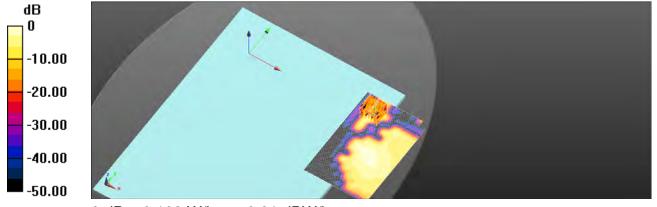
dv=4mm. dz=2mm

Reference Value = 0.2010 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 q) = 0.031 W/kq; SAR(10 q) = 0.00703 W/kq

Maximum value of SAR (measured) = 0.102 W/kg



0 dB = 0.102 W/kg = -9.91 dBW/kg

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Page: 220 of 328

Date: 2018/1/17

WLAN 802.11n(40M) 5.3G Body Bottom side CH 54 Main 0mm

Communication System: WLAN(5G); Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5270 MHz; $\sigma = 5.271 \text{ S/m}$; $\varepsilon_r = 49.46$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(4.56, 4.56, 4.56); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.181 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

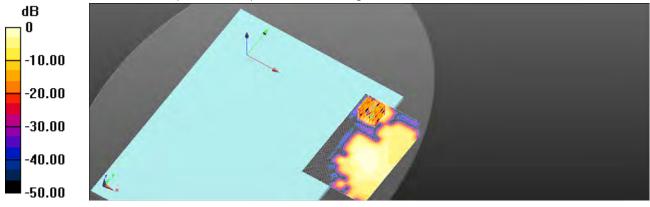
dy=4mm, dz=2mm

Reference Value = 0.4810 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.00645 W/kg

Maximum value of SAR (measured) = 0.0962 W/kg



0 dB = 0.0962 W/kg = -10.17 dBW/kg

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Page: 221 of 328

Date: 2018/1/18

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 138_Main_0mm

Communication System: WLAN(5G); Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5690 MHz; $\sigma = 5.853 \text{ S/m}$; $\epsilon_r = 48.183$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(3.98, 3.98, 3.98); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.123 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

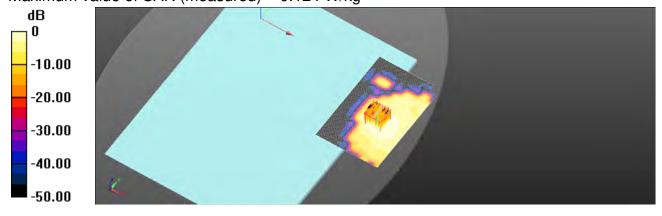
dy=4mm, dz=2mm

Reference Value = 0.2520 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.431 W/kg

SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.028 W/kg

Maximum value of SAR (measured) = 0.124 W/kg



0 dB = 0.124 W/kg = -9.05 dBW/kg

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Page: 222 of 328

Date: 2018/1/19

WLAN 802.11ac(80M) 5.8G Body Bottom side CH 155 Main 0mm

Communication System: WLAN(5G); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5775 MHz; $\sigma = 6.024$ S/m; $\epsilon_r = 48.041$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(4.21, 4.21, 4.21); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0766 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

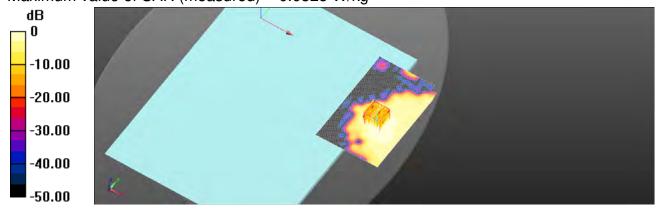
dy=4mm, dz=2mm

Reference Value = 0.6560 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.265 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.0825 W/kg



0 dB = 0.0825 W/kg = -10.83 dBW/kg

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Page: 223 of 328

Date: 2018/1/12

WLAN 802.11b Body Bottom side CH 6 Aux 0mm

Communication System: WLAN(2.45G); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2437 MHz; $\sigma = 1.915$ S/m; $\epsilon_r = 52.874$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(7.82, 7.82, 7.82); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0193 W/kg

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

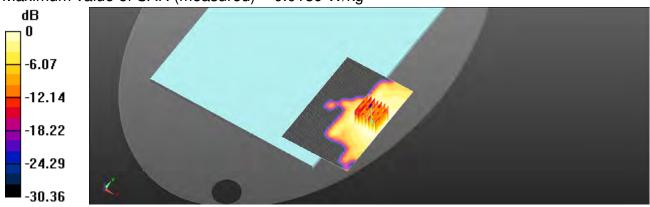
dy=5mm, dz=5mm

Reference Value = 0.3040 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0270 W/kg

SAR(1 q) = 0.013 W/kq; SAR(10 q) = 0.00796 W/kq

Maximum value of SAR (measured) = 0.0189 W/kg



0 dB = 0.0189 W/kg = -17.24 dBW/kg

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Page: 224 of 328

Date: 2018/1/12

Bluetooth(GFSK) Body Bottom side CH 0 Aux 0mm

Communication System: WLAN(2.45G); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2412 MHz; $\sigma = 1.906$ S/m; $\epsilon_r = 52.898$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(7.82, 7.82, 7.82); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0014 W/kg

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

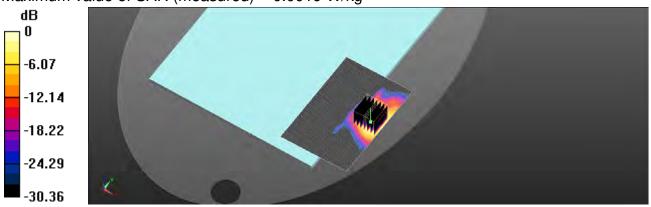
dy=5mm, dz=5mm

Reference Value = 0.0233 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0021 W/kg

SAR(1 q) = 0.00104 W/kq; SAR(10 q) = 0.000781 W/kq

Maximum value of SAR (measured) = 0.0019 W/kg



0 dB = 0.0019 W/kg = -26.35 dBW/kg

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Page: 225 of 328

Date: 2018/1/16

WLAN 802.11n(40M) 5.2G_Body_Bottom side_CH 46_Aux_0mm

Communication System: WLAN(5G); Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5230 MHz; $\sigma = 5.19 \text{ S/m}$; $\epsilon_r = 49.559$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(4.6, 4.6, 4.6); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0388 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

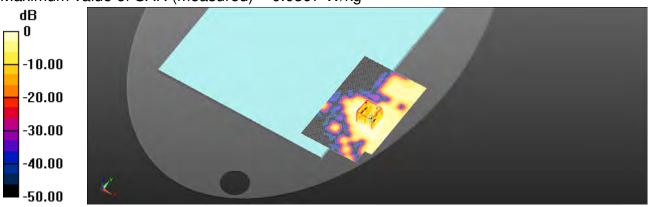
dy=4mm, dz=2mm

Reference Value = 0.3310 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.00978 W/kg

Maximum value of SAR (measured) = 0.0397 W/kg



0 dB = 0.0397 W/kg = -14.01 dBW/kg

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Page: 226 of 328

Date: 2018/1/17

WLAN 802.11n(40M) 5.3G Body Bottom side CH 54 Aux 0mm

Communication System: WLAN(5G); Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5270 MHz; $\sigma = 5.271 \text{ S/m}$; $\varepsilon_r = 49.46$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 SN7351; ConvF(4.56, 4.56, 4.56); Calibrated: 2017/12/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2017/3/22
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0520 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

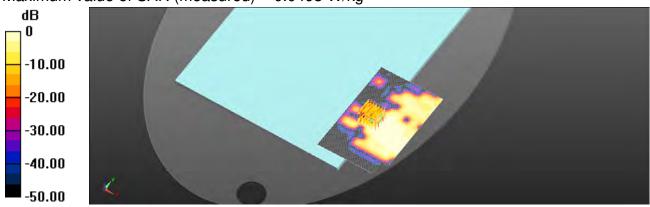
dy=4mm, dz=2mm

Reference Value = 0.3080 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 q) = 0.024 W/kq; SAR(10 q) = 0.00793 W/kq

Maximum value of SAR (measured) = 0.0493 W/kg



0 dB = 0.0493 W/kg = -13.07 dBW/kg

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Page: 227 of 328

Date: 2018/1/18

WLAN 802.11ac(80M) 5.6G Body Bottom side CH 138 Aux 0mm

Communication System: WLAN(5G); Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5690 MHz; $\sigma = 5.853 \text{ S/m}$; $\epsilon_r = 48.183$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(3.98, 3.98, 3.98); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0768 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

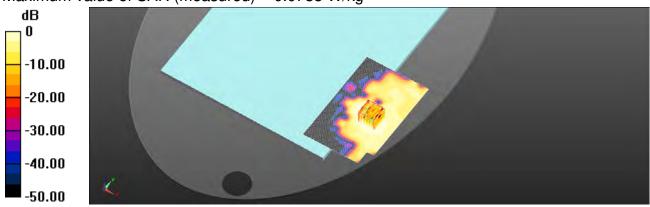
dy=4mm, dz=2mm

Reference Value = 0.3960 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.208 W/kg

SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.0788 W/kg



0 dB = 0.0788 W/kg = -11.04 dBW/kg

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Page: 228 of 328

Date: 2018/1/19

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Aux_0mm

Communication System: WLAN(5G); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5775 MHz; $\sigma = 6.024$ S/m; $\varepsilon_r = 48.041$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(4.21, 4.21, 4.21); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (91x141x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 0.0449 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

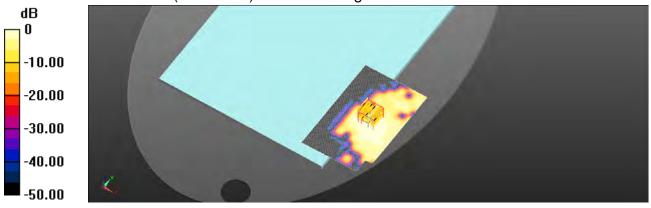
dy=4mm, dz=2mm

Reference Value = 0.5220 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.0980 W/kg

SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.00872 W/kg

Maximum value of SAR (measured) = 0.0462 W/kg



0 dB = 0.0462 W/kg = -13.36 dBW/kg

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Page: 229 of 328

6. SAR System Performance Verification

Date: 2018/1/5

Dipole 750 MHz SN:1015

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

Medium parameters used: f = 750 MHz; $\sigma = 0.961 \text{ S/m}$; $\varepsilon_r = 55.827$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(10.81, 10.81, 10.81); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (51x141x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 2.78 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

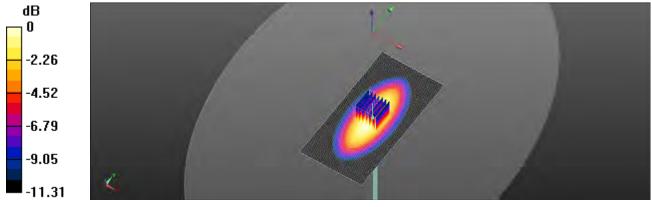
dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.31 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.41 W/kg

Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

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Page: 230 of 328

Date: 2018/1/8

Dipole 835 MHz SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma = 1.01 \text{ S/m}$; $\epsilon_r = 55.025$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(10.39, 10.39, 10.39); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x121x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 3.12 W/kg

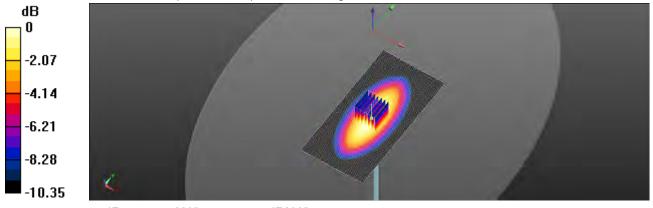
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 56.63 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.62 W/kg Maximum value of SAR (measured) = 3.11 W/kg



0 dB = 3.11 W/kg = 4.93 dBW/kg

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Page: 231 of 328

Date: 2018/1/9

Dipole 1750 MHz SN:1008

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; $\sigma = 1.454 \text{ S/m}$; $\epsilon_r = 53.551$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.5°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(8.58, 8.58, 8.58); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (41x71x1): Interpolated grid: dx=15 mm,

dv=15 mm

Maximum value of SAR (interpolated) = 14.2 W/kg

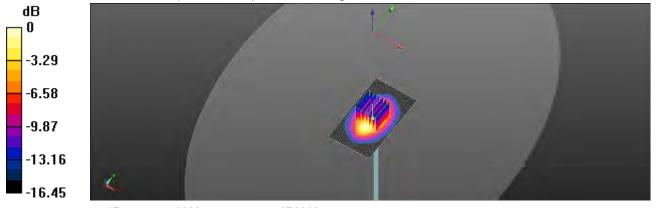
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 95.40 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.4 W/kg; SAR(10 g) = 5.06 W/kgMaximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg

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Page: 232 of 328

Date: 2018/1/10

Dipole 1900 MHz SN:5d173

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

Medium parameters used: f = 1900 MHz; $\sigma = 1.516 \text{ S/m}$; $\epsilon_r = 53.022$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(8.22, 8.22, 8.22); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (41x101x1): Interpolated grid: dx=15 mm,

dy=15 mm

Maximum value of SAR (interpolated) = 14.8 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

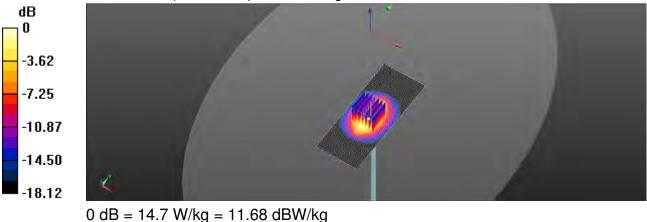
dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.69 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.39 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



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Page: 233 of 328

Date: 2018/1/11

Dipole 2300 MHz SN:1023

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2300 MHz; $\sigma = 1.747 \text{ S/m}$; $\epsilon_r = 53.461$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(7.98, 7.98, 7.98); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 19.5 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

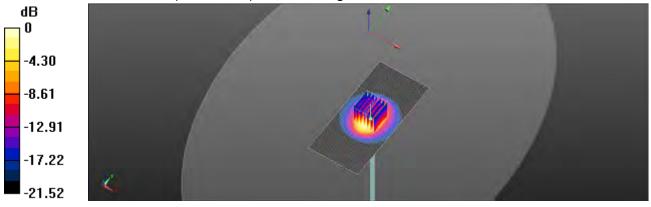
dx=5mm, dy=5mm, dz=5mm

Reference Value = 101.2 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 25.1 W/kg

SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.84 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

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Page: 234 of 328

Date: 2018/1/12

Dipole 2450 MHz_SN:727

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.931 \text{ S/m}$; $\epsilon_r = 52.808$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(7.82, 7.82, 7.82); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

• DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x91x1): Interpolated grid: dx=12 mm,

dy=12 mm

Maximum value of SAR (interpolated) = 20.7 W/kg

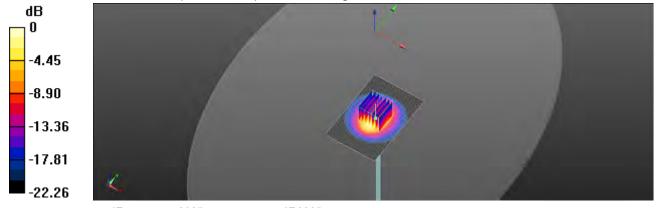
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 101.1 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.93 W/kg Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.95 dBW/kg

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Page: 235 of 328

Date: 2018/1/15

Dipole 2600 MHz SN:1005

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

Medium parameters used: f = 2600 MHz; $\sigma = 2.124 \text{ S/m}$; $\epsilon_r = 52.227$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(7.56, 7.56, 7.56); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (71x91x1): Interpolated grid: dx=12 mm,

dy=12 mm

Maximum value of SAR (interpolated) = 23.3 W/kg

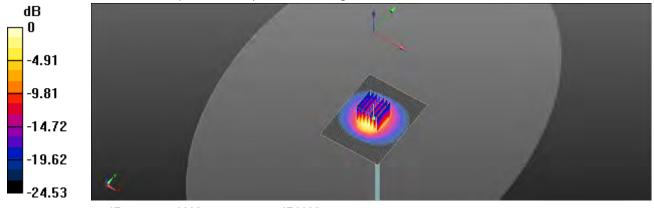
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 100.1 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 31.3 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.08 W/kg Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.47 dBW/kg

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Page: 236 of 328

Date: 2018/1/16

Dipole 5200 MHz SN:1023

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

Medium parameters used: f = 5200 MHz; $\sigma = 5.121 \text{ S/m}$; $\epsilon_r = 49.587$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(4.6, 4.6, 4.6); Calibrated: 2017/12/21;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.0 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

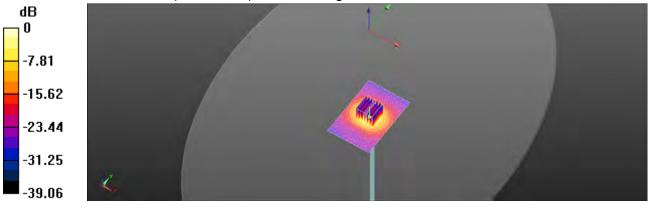
dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.01 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 30.2 W/kg

SAR(1 g) = 7.35 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.84 dBW/kg

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Page: 237 of 328

Date: 2018/1/17

Dipole 5300MHz SN:1023

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

Medium parameters used: f = 5300 MHz; $\sigma = 5.263 \text{ S/m}$; $\epsilon_r = 49.371$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.2°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(4.56, 4.56, 4.56); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=10 mm,

Maximum value of SAR (interpolated) = 16.5 W/kg

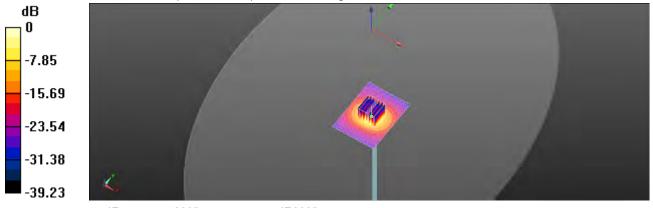
Configuration/Pin=250mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

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

Reference Value = 59.25 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 7.85 W/kg; SAR(10 g) = 2.2 W/kgMaximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 12.25 dBW/kg

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Page: 238 of 328

Date: 2018/1/18

Dipole 5600 MHz_SN:1023

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

Medium parameters used: f = 5600 MHz; $\sigma = 5.737 \text{ S/m}$; $\varepsilon_r = 48.52$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(3.98, 3.98, 3.98); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (61x91x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

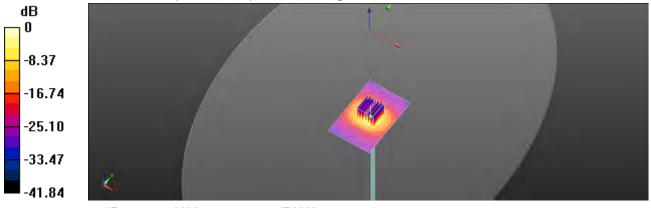
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

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

Reference Value = 57.75 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 8.05 W/kg; SAR(10 g) = 2.27 W/kg Maximum value of SAR (measured) = 17.5 W/kg



0 dB = 17.5 W/kg = 12.42 dBW/kg

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Page: 239 of 328

Date: 2018/1/19

Dipole 5800 MHz SN:1023

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

Medium parameters used: f = 5800 MHz; $\sigma = 6.004 \text{ S/m}$; $\varepsilon_r = 48.006$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7351; ConvF(4.21, 4.21, 4.21); Calibrated: 2017/12/21;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2017/3/22

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (61x91x1): Interpolated grid: dx=10 mm,

dy=10 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

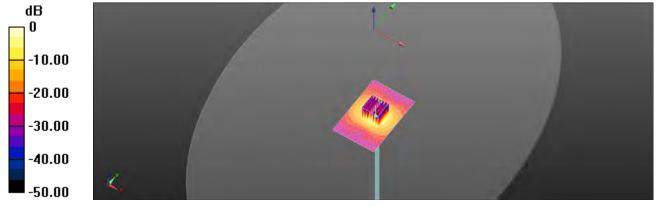
dx=4mm, dy=4mm, dz=2mm

Reference Value = 51.17 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

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Page: 240 of 328

7. DAE & Probe Calibration Certificate

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

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)

Accreditation No.: SCS 0108

Certificate No: DAE4-547_Mar17 CALIBRATION CERTIFICATE Object DAE4 - SD 000 D04 BM - SN: 547 QA CAL-06.v29 Calibration procedure(s) Calibration procedure for the data acquisition electronics (DAE) March 22, 2017 Calibration date This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (Sti. The measurements and the uncertainties with confidence probability are given on the following pages and are part of the contidents. All calibrations have been conducted in the closed laboratory (scalib); environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards Cal Date (Certificate No.) Scheduled Calibration Keithley Multimeter Type 2001 SN: 0810278 09-Sep-16 (No:19065) Sep-17 Check Date (in house) Scheduled Check Secondary Standards Auto DAE Calibration Unit SE UWS 053 AA 1001 05-Jan-17 (in house check) In house check: Jan-18 Calibrator Box V2.1 SE UMS 005 AA 1002 05-Jan-17 (in house check) In house check: Jan-18 Function Calibrated by Eric Hair/feld Technician Approved by: fin Bomholt Deputy Technical Manager · V.B/Muni Issued March 22, 2017 This calibration cartificate shall not be reproduced except in full without written approval of the faboratory

Certificate No: DAE4-547_Mar17

Page 1 of 5

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Page: 241 of 328

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schwillteriscour Knilbrigetioner Service suigse cretmonnage C Servizio svizzero di taratura Swiss Calibration Service

Accorditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS). The Swiss Accreditation Service is one of the signaturies to the EA Multilateral Agreement for the recognition of calibration certific

Glossary

DAE Connector angle

data acquisition electronics

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 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: DAE4-547_Mar17

Flage 2 U.S.

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Page: 242 of 328

DC Voltage Measurement

A/D - Converter Resolution nominal High Range: 1LSB = B. TuV. full range = -100...+300 mV Low Range: 1LSB = BINV. full lange = -1+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.189 ± 0.02% (k=2)	403.093 ± 0.02% (k=2)	402.739 ± 0.02% (k=2)
Low Range	3.95348 ± 1.50% (k=2)	3.90456 ± 1.50% (k=2)	3.96243 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	91.0" ± 1.0"

Certificate No: DAE4-547_Mar17

Page 3 of 5

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Page: 243 of 328

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	200031 23	0,59	0.00
Channel X + Input	20005.44	2.04	0.01
Channel X - Input	-20000.97	4.91	-0.02
Channel Y + Input	200029,80	-1,03	-0.00
Channel Y + Input	20000.30	-3.03	-0.02
Channel Y - Input	-20007.73	-1.72	0.01
Channel Z + Input	200030,21	-0.96	-0.00
Channel Z + Input	20003.13	-0.21	-0,00
Channel Z - Input	-20005.14	0.81	-0.00

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2000.02	+Q:08	-0.00
Channel X + Input	200.18	0.36	0.18
Channel X - Input	-200.16	0.00	-0.00
Channel Y + Input	2000.10	0.06	0.00
Channel Y + Input	199.43	-0.40	-0.20
Channel Y - Input	-200.77	-0.70	0.35
Channel Z + Input	2000.19	0.28	0.01
Channel Z + Input	198.82	-1.00	-0.50
Channel Z - Input	-201.46	-1.37	0.68

2. Common mode sensitivity

DASY measurement parameters: Auto Zoro Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (µV)	Low Range Average Reading (µV)
Channel X	200	-2.09	-5.00
	- 200	6.80	4.50
Channel Y	200	+0.67	-1.21
	-200	0.27	-0.41
Channel Z	200	5.07	4.93
	-200	-7.67	-8.12

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	×	2.65	-2.08
Channel Y	200	10.56		3,60
Channel Z	200	4.55	7.85	-1-

Certificate No: DAE4-547 Mar17

Page 4 of 5

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Page: 244 of 328

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16364	15364
Channel Y	16476	16901
Channel Z	16077	16468

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec;

	t 1		

	Áverage (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	-0.53	-(.14	0.26	0.31
Channel Y	-1.03	-2,43	-0.21	0.32
Channel Z	-1.56	-2.31	-0.62	0.35

6. Input Offset Current

Nominal Input circuitry offset ourrent 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 (+ Vac)	+7.9	
Supply (- Ycc)	-7,6	

9. Power Consumption (Typical values for Information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Certificate No. DAE4-547_Mar/17

Page 5 of 5

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Page: 245 of 328

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di teratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accrecised by the Swiss Accrecitation Service (SAS)

The Swiss Accrecitation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Client Auden

Certificate No: EX3-7351_Dec17

CALIBRATION CERTIFICATE

Other

EX3DV4 - SN:7351

Castration properties)

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:

December 21, 2017

This calcration certificate documents the tracecounty 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)

Primery Standards	ID.	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Fower sensor NRF-Z91	SN: 103244	84-Adr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	31-Dec.16 (No. ES3-3013_Dec16)	Dec-17
DAE4	SN: 654	24-Jul-17 (No. DAE4-654_Jul17)	Jul-18
Secondary Standards	(D	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-18
Power sensor E4412A.	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-15 (in house check Jun-16)	In house check, Jun-18
RF generator HP 86480	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzes Hill 8733E	3N. UB37390588	(8-Ctd-0) (in house check Otd-17)	in house check: Oct-16

Colibrated by:

Name

Function

Laboratory Technique

Approved by:

Kertja Pokovic

Technical Manager

First calibration Certificate shed not by reproduced except in full without written approval of the laboratory.

Signature

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Certificate No. EX3-7351_Dec17

Page 1 of 11

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Page: 246 of 328

Calibration Laboratory of Schmid & Partner Engineering AG





Schweizerischer Kallbriernienst. S Service suisse d'étalonnage C Servizio svizzaro di taratum Swiss Calibration Service

Accreditation No.: SCS 0108

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The Swiss Accreditation Service is one of the signaturies to the MA. Multilateral Agreement for the recognition of calibration certificates

Glossary:

tissue simulating liquid NORMa,y.2 sensitivity in free space sensitivity in TSL / NORMx,y,z ConvF miod compression point

crest factor (1/quty_cycle) of the RF signal A. B. C. D. modulation dependent linearization parameters

Polarization o p rotation around probe axis

Polarization 9 A rotation around en exist hat is in the plane normal to probe axis (at measurement center)

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, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016 IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)". March 2010

d) KDB 865664, 'SAR Measurement Requirements for 100 MHz to 6 GHz'

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f < 900 MHz in TEM-cell; f > 1900 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).
- MOHM(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 medial
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax.y.z. Bx.y.z; Cx.y.z; Dx.y.z; VRx.y.z; A. B. C. D are numerical linearization perpineters 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 < 900 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 NORMs, $y_i \in ConvF$ whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 .
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset. The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required,
- Connector Angle: The angle is assessed using the information gained by determining the NORMx Inc. uncertainty required).

Cettificate No: EX3-7351 Dec17

Page 2 of FT

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Page: 247 of 328

EX3DV4 - SN:7351

December 21, 2017

Probe EX3DV4

SN:7351

Manufactured: Calibrated:

October 13, 2014 December 21, 2017

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-7351_Dec17

Page 3 of 11

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Page: 248 of 328

EX3DV4-SN:7351

December 21, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7351

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.47	0.44	0.45	± 10.1 %
DCP (mV) ⁸	97.9	104.3	97.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^b (k=2)
0	CW	W X 0	0.0	0.0	1.0	0.00	136.5	±3.8 %
		Y	0.0	0.0	1.0		136.4	
		Z	0.0	0.0	1.0		147.3	

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: EX3-7351_Dec17

Page 4 of 11

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A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization parameter: uncertainty not required.

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the



Page: 249 of 328

EX3DV4-SN:7351

December 21, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7351

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^C (mm)	Unc (k=2)
750	41.9	0.89	10.92	10.92	10.92	0.55	0.80	± 12.0 %
835	41.5	0.90	10.60	10.60	10.60	0.55	0.80	± 12.0 %
900	41.5	0.97	10.31	10.31	10.31	0.40	0.95	± 12.0 9
1750	40.1	1.37	8.78	8.78	8.78	0.28	0.80	± 12.0 9
1900	40.0	1.40	8.50	8.50	8.50	0.29	0.80	± 12.0 9
2000	40.0	1.40	8.41	8.41	8.41	0.30	0.80	± 12.0 9
2300	39.5	1.67	8.03	8.03	8.03	0.31	0.84	± 12.0 9
2450	39.2	1.80	7.74	7.74	7.74	0.34	0.85	± 12.0 9
2600	39.0	1.96	7.51	7.51	7.51	0.36	0.81	± 12.0 9
5200	36.0	4.66	5.49	5.49	5.49	0.35	1.80	± 13.1 9
5300	35.9	4.76	5.15	5.15	5.15	0.40	1.80	± 13.1 9
5500	35.6	4.96	5.04	5.04	5.04	0.40	1.80	± 13.1 9
5600	35.5	5.07	4.81	4.81	4.81	0.40	1.80	± 13.1 9
5800	35.3	5.27	4.90	4.90	4.90	0.40	1.80	± 13.1 9

^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 (s and e) can be released to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (z and e) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

*AphisiDepth 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 typ diameter from the boundary.

Certificate No: EX3-7351 Dec17

Page 5 of 11

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Page: 250 of 328

EX3DV4-SN:7351

December 21, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7351

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^r	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	10.81	10.81	10.81	0.40	0.91	± 12.0 %
835	55.2	0.97	10.39	10.39	10.39	0.47	0.87	± 12.0 %
900	55.0	1.05	10.18	10.18	10.18	0.48	0.85	± 12.0 %
1750	53.4	1.49	8.58	8.58	8.58	0.37	0.85	± 12.0 %
1900	53.3	1.52	8.22	8.22	8.22	0.43	0.80	± 12.0 %
2000	53.3	1.52	8.40	8.40	8.40	0.31	0.99	± 12.0 9
2300	52.9	1.81	7.98	7.98	7.98	0.40	0.87	± 12.0 %
2450	52.7	1.95	7.82	7.82	7.82	0.37	0.88	± 12.0 %
2600	52.5	2.16	7.56	7.56	7.56	0.32	0.93	± 12.0 9
5200	49.0	5.30	4.60	4.60	4.60	0.40	1.90	± 13.1 9
5300	48.9	5.42	4.56	4.56	4.56	0.40	1.90	± 13.1 %
5500	48.6	5.65	4.09	4.09	4.09	0.45	1.90	± 13.1 9
5600	48.5	5.77	3.98	3.98	3.98	0.45	1.90	± 13.1 9
5800	48.2	6.00	4.21	4.21	4.21	0.45	1.90	± 13.1 %

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 ositional requency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 60 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 (c and c) 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 (c and c) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

AphaDopth 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: EX3-7351 Dec17

Page 6 of 11

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Page: 251 of 328

EX3DV4-SN 7351

December 21, 2017

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

1.5 1.4 Frequency response (normalized) 12 1.0 0.9 0.8 0.7 0.5 500 2000 2500 3000 f [MH2] TEM R22

Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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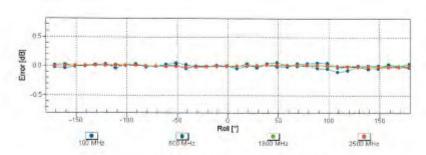


Page: 252 of 328

EX3DV4-SN:7351 December 21, 2017

Receiving Pattern (6), 9 = 0°





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: EX3-7351_Dec17

Page 8 of 11

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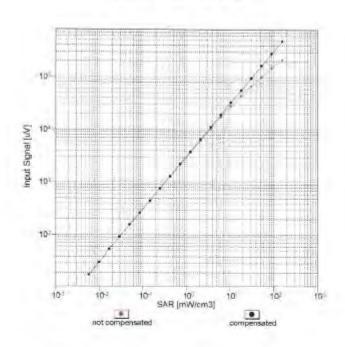


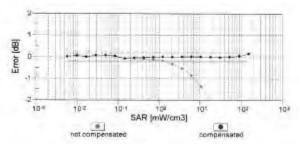
Page: 253 of 328

EX3094-SN:7351

December 21, 2017

Dynamic Range f(SAR_{head}) (TEM cell , feral= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-7351_Den17

Page 9 et 11

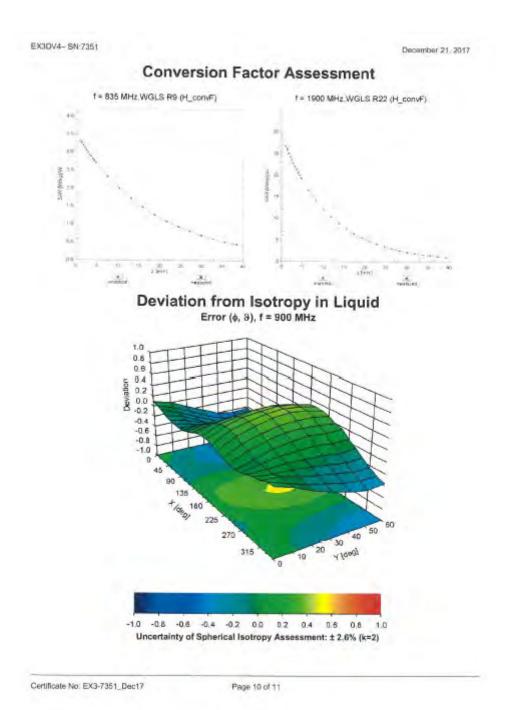
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Page: 254 of 328



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Page: 255 of 328

EX3DV4-SN:7351

December 21, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7351

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	88.8
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: EX3-7351 Dec17

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Page: 256 of 328

8. Uncertainty Budget

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

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	œ
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	œ
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	œ
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	00
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	00
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	00
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	œ
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	œ
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	80
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%	œ
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	œ
Liquid permittivity (mea.)	1.17%	N	1	1	0.64	0.43	0.75%	0.50%	М
Liquid Conductivity (mea.)	3.36%	N	1	1	0.6	0.49	2.02%	1.65%	М
Combined standard uncertainty		RSS					11.91%	11.83%	
Expant uncertainty (95% confidence							23.82%	23.67%	

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Page: 257 of 328

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
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%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	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	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.06%	N	1	1	0.64	0.43	0.68%	0.46%	М
Liquid Conductivity (mea.)	4.15%	N	1	1	0.6	0.49	2.49%	2.03%	М
Combined standard uncertainty		RSS					11.71%	11.60%	

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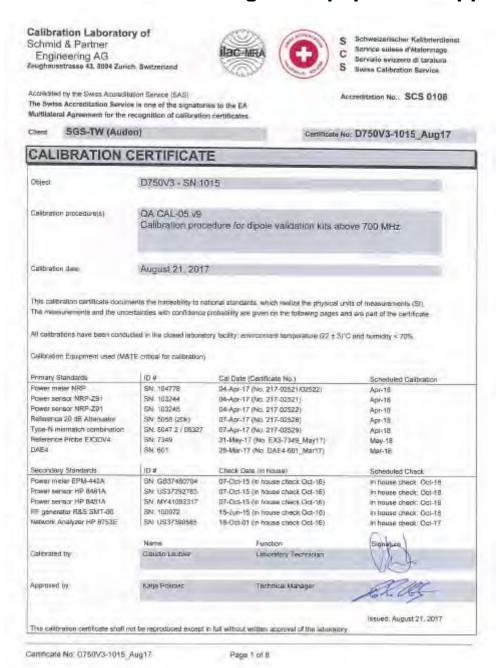
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Page: 258 of 328

9. System Validation from Original Equipment Supplier



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Page: 259 of 328

Calibration Laboratory of Schmid & Partner Engineering AG Zoughaum trasse 43, 1994 Zurich, Switzenland





Schweizerischer Kallbrierdienst Service suives d'étalemage C Servicio avezaero di taretura Swiss Calibration Service

Accredited by the Swas Accrements Service (SAS) Accreditation No.: SCS 010N The SWiss Accreditation Service is one of the signaturing to the EA Murtileseral Agreement for the recognition of calibration certific

Glossary:

TSL basue simulating liquid ConvE sensitivity in TSL / NORM x.y.z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013.
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 82209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) 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%

Certificiale No. D750V3-1015, Aug 17

Page 2 of B

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Page: 260 of 328

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASYS	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Fial Pitantom	
Distance Dipole Center - TBL	15 mm	with Specer
Zoom Scan Resolution	ds. dy dz = 5 mm	
Prequency	750 MHz ± 1 MHz	
	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mno/m
Measured Head TSL parameters	(22,0±0,2)±C	41.7±6%	0.90 mhg/m ± 5 %
Head TSL temperature change during test	< 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	2.09 W/kg
SAR for nominal Heart TSL parameters	cormatized to 1W	8.25 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.35 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55,5	0.96 mha/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.5 # B %	0.96 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	-	_

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.19 W/kg
SAR for nominal Body TSL parameters	namulized to 1W	8.76 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.44 W/kg
SAR for nominal Body TSL parameters	romaized to 1W	5.76 W/kg ± 16.5 % (k=2)

Certificate No: D750V3-1015_Aug 17

Page 3 of 8

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Page: 261 of 328

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.9 Ω + 0.3 jΩ		
Return Loss	- 28.6 dB		

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.6 D - 3.4 jD		
Relum Loss	-28.4 dB		

General Antenna Parameters and Design

Electrical Delay (one direction)	1.037 ns.
----------------------------------	-----------

After long term use with 100W radiated power, only a slight warming of the olipore near the feedpoint can be measured.

The clooks 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 aims, 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: D760V3-1015_Aug17

Page 4 of R

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Page: 262 of 328

DASY5 Validation Report for Head TSL

Date: 18.08.2017

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; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

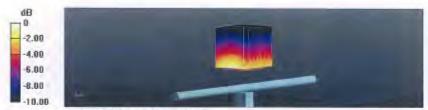
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.49, 10.49, 10.49); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom; Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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 = 58.52 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.35 W/kg Maximum value of SAR (measured) = 2.82 W/kg



0 dB = 2.82 W/kg = 4.50 dBW/kg

Certificate No: D750V3-1015 Aug 17

Page 5 of 8

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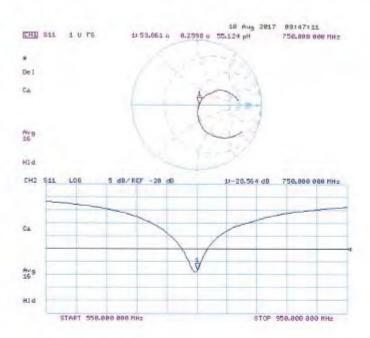
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Page: 263 of 328

Impedance Measurement Plot for Head TSL



Certificate No: D750V3-1015_Aug17

Page 6 of 8

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Page: 264 of 328

DASY5 Validation Report for Body TSL

Date: 21.08.2017

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; $\sigma = 0.96$ S/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

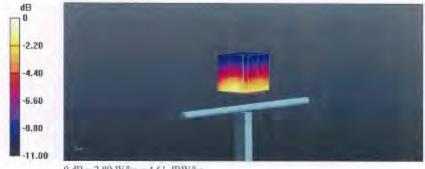
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.35, 10.35, 10.35); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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 = 57.77 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.44 W/kgMaximum value of SAR (measured) = 2.89 W/kg



0 dB = 2.89 W/kg = 4.61 dBW/kg

Certificate No: D750V3-1015_Aug17

Page 7 of 8

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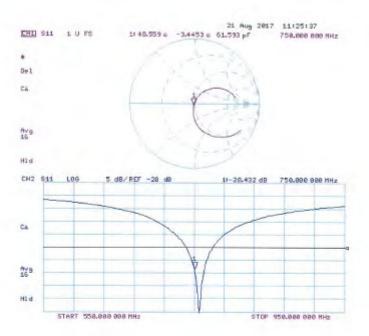
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Page: 265 of 328

Impedance Measurement Plot for Body TSL



Certificate No: D750V3-1015_Aug17

Page 8 of 8

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Page: 266 of 328



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Page: 267 of 328

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughaussbasse 43, 8664 Zurich, Switzerland





S Schweizerischer Kalibriedieris
C Service suisse d'étalomage
Servizie svizzere di tarature
S Swiss Calibration Service

Accreditation No.: SCS 0108

Appreciated by the Swiss Accreditation Service (SAS)

The Swiss Accorditation Service is one of the signatories to the EA Mutitational Agramment 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:

- 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, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) 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. D835V2-4d063_Aug17

Page 2 of 8

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Page: 268 of 328

Measurement Conditions

DASY system configuration, as fat as not given on page 1.

DASY Version	DASYS	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dž = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 missim
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.9±6%	0.93 mho/m ± 8 %
Head TSL temperature change during test	< 0.5 °C	_	

SAR result with Head TSL

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW Input power	2.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9,34 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.55 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6,07 W/kg ± 16.5 % (k=2)

Body TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	56.2	0.97 mno/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.3±8%	0.98 mbo/m ± 5 %
Body TSL temperature change during test	< 0.5 °C	-	

SAR result with Body TSL

SAR averaged over 1 cm ¹ (1 g) of Body TSL	Condition	
SAR measured	250 nW input power	2.41 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.57 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ² (10 g) of Body TSL	condition	
SAR measured	250 mW Input power	1.58 W/kg
SAR for nominal Body TSL parameters	normalizaci to 1W	6.28 W/kg ± 16.5 % (k=2)

Centicate No. DB35V2-4d063_Aug17

Page 3 of 6

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Page: 269 of 328

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point.	\$1.1 W - 2,7 K2	
Return Loss	- 30.8 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.2 \(\Omega - 5,2 \) (\Omega)	
Return Loss	-24.4 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.387 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-signats. 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 dipple arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

SPEAG
November 27, 2006

Certificate No. D835V2-4d063_Aug17

Page 4 of 8

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Page: 270 of 328

DASY5 Validation Report for Head TSL

Date: 18.08.2017

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; $\sigma = 0.93$ S/m; $\epsilon_c = 40.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANS) C63,19-2011)

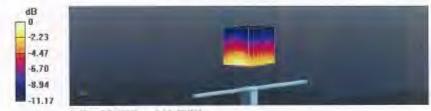
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.07, 10.07, 10.07); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA: Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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 = 61.74 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.71 W/kg SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 3.26 W/kg



0 dB = 3.26 W/kg = 5.13 dBW/kg

Certificate No: D835V2-4d063, Aug17

Page 5 of 8

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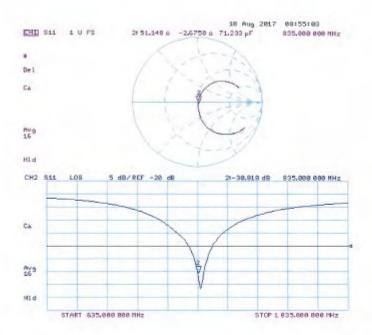
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Page: 271 of 328

Impedance Measurement Plot for Head TSL



Certificate No: D835V2-4d063_Aug17

Page 6 of 8

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Page: 272 of 328

DASY5 Validation Report for Body TSL

Date: 21.08.2017

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; $\sigma = 0.98$ S/m; $\varepsilon_r = 55.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

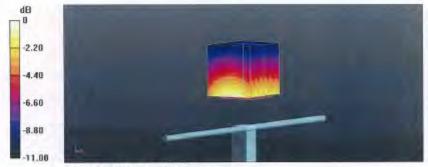
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.2, 10.2, 10.2); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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 = 59.86 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.58 W/kg Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg

Certificate No: D835V2-4d063_Aug17

Page 7 of 8

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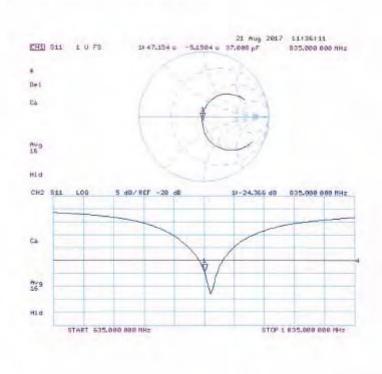
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Page: 273 of 328

Impedance Measurement Plot for Body TSL



Certificate No: D835V2-4d063_Aug17

Page 8 of 8

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Page: 274 of 328



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Page: 275 of 328

Calibration Laboratory of Schmid & Partner Engineering AG





S Schweizenscher Kalibrerde Sérvice suisse d'étatonnage C Servizio svizzero di taralura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

strasse 43, 6504 Zurich, Switzerland

The Swiss Accreditation Service is one of the signatones to the EA Wuitilateral Agreement for the recognition of calibration cortificates

Glossary:

basue simulating liquid TSL ConvE 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
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) 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.
- Anienna 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 D1750V2-1008_Aug17

Page 2 of B

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台灣檢驗科技股份有限公司

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www.tw.sas.com



Page: 276 of 328

Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantern	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperatura	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mbolm
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.1 ± 6 %	1,35 mha/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	1-1	-

SAR result with Head TSL

SAR averaged over 1 cm² (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	8.98 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.0 Wrkg ± 17.0 % (k=2)

SAR averaged over 10 cm ¹ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.75 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.0 W/kg ± 16.5 % (k=2)

Body TSL parameters

he following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53,4	1 49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.9 ± 8 %	1.47 m/m/m ± 8 %
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	9.09 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	36.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	at the state
SAR measured	250 mW input power	4.87 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	19.6 W/kg ± 16.5 % (k=2)

Certificate No. D1750V2-1008_Aug17

Page 3 of B

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Page: 277 of 328

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point.	49.911 - 0.4 /(1
Return Loss	= 46,7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.3 Ω - 1.4 jΩ	
Return Loss	- 27.6 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.221 ns
are a second desired	1404,110

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The pipole is made of standard semingid ocessal 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 dipple 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_Aug17

Page 4 of E

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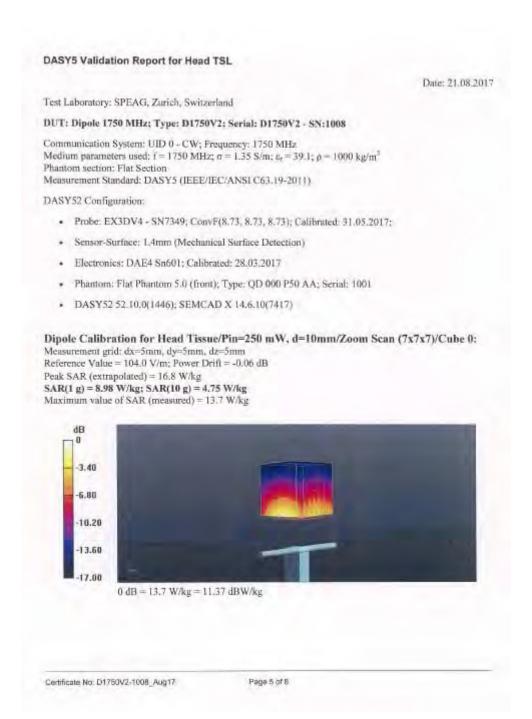
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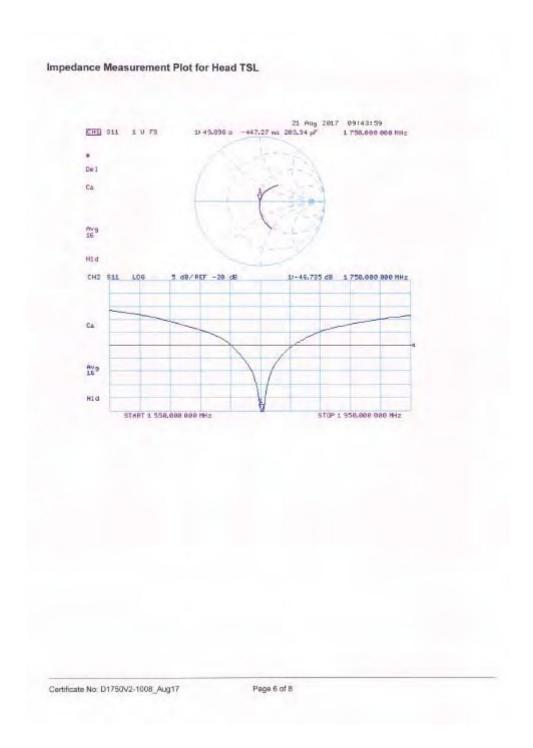
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Page: 280 of 328

DASY5 Validation Report for Body TSL

Date: 18.08.2017

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; $\alpha = 1.47 \text{ S/m}$; $\epsilon_r = 53.9$; $p = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.46, 8.46, 8.46); Calibrated: 31.05,2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated; 28:03:2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

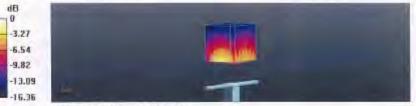
Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 99.85 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 9.09 W/kg; SAR(10 g) = 4.87 W/kg

Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg = 11.24 dBW/kg

Certificate No: D1750V2-1008_Aug17

Page 7 of 8

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Page: 281 of 328

Impedance Measurement Plot for Body TSL 18 Aug 2017 11128148 [CHI] 911 21 46,262 o -1,4863 o 64,672 of 1 758,686 888 HHz H1d CHZ 5 dB/REF -28 dB 21-27,644 dB 1 756,000 000 HHz L06 16 Hid START 1 558,000 000 NHz STOP 1 950.000 000 HHz

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Page: 282 of 328

Calibration Laboratory of Schmid & Partner Engineering AG aughausstrasse 43, 8004 Zurich, Switzerland





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SGS-TW (Auden)

Certificate No: D1900V2-5d173_May17

Calibration procedure(s) QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MH Calibration date; May 31, 2017	Z
Calibration date: May 31, 2017	
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the All collonations have been conducted in the closed laboratory facility: anwironment temperature (22 ± 3)°C and humidity Calibration Equipment used (M&TE critical for colloration)	
Primary Standards ID # Cal Date (Certificate No.) Schedu	iled Calibration
Power mater NRP SN: 104778 04-Apr-17 (No. 217-02521/02522) Apr-18	
Power sensor NEIP-Z91 SN: 100244 04-Apr-17 (No. 217-02521) Apr-18	
Power sensor NRP-291 SN: 103245 (4-Apr-17 (No. 217-02522) Apr-18	
Reference 20 dB Attenuelon SN: 5058 (20k) 07-Apr-17 (No. 217-02528) Apr-18	
Type-N mismatch combination SN: 5047-2 / 06327 07-Apr-17 (No. 217-02529) Apr-18	
Preference Probe EX3DV4 SN: 7460 19-May-17 (No. EX3-7460 _Miny17) May-18	
DAE4 SN: 601 28-Man 17 (No. DAE4-601_Mar 17) Man 18	
Secondary Standards ID # Check Date (in house) Sched	illed Check
	ie check: Oct-16
	e check: Oct-18
	e diece Oct-18
RF generator R&S SMT-06 SN 100972 15-Jun-15 (in house check Cor-15) In house	se check: Oct-18.
Network Analyzer HF 6753E SN: US37390565 18-Dot-01 (in house check Oct-18) In house	se check: Oct-17
Name Function Signs	ture
Calibrated by Jejon Kastrati Laboratory Technician	1/
Citation cy.	
Approved by: Kalja Poxovio Tochnica Manager	-47-

Certificate No: D1900V2-5d173_May17

Page 1 of II

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Multiwieral Agreement for the recognition of coloration certificates

Glossary:

TSL Itssue simulating liquid
ConvF sensitivity in TSL / NORM x.y.z
N/A not applicable or not measured

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- 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 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.
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- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

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- 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
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- 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%.

Demicase No: D1900V2-5d175 May17

Page 2 al B

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Page: 284 of 328

Measurement Conditions

edem configuration, as far as not given on page 1

DASY Version	DASY5	V52,10,0
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 mito/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	413±6%	1.40 mho/m ±.6 %
Head TSL temperature change during test	< 0.5 °C	- James ()-	-

SAR result with Head TSL

SAR averaged over 1 cm ² (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	40.7 W/kg ± 17.0 % (k=2)

SAR everaged over 10 cm2 (10 g) of Head TSL	condition	
SAR measured	250 mW Input power	5.26 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.1 W/kg ± 16.5 % (k=2)

Body TSL parameters

	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	54.2±6 %	1.51 mha/m.± 6 %
Body TSL temperature change during test	< 0.5 °C	1-44	-

SAR result with Body TSL

SAR averaged over 1 cm ⁵ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.98 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	40.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5,30 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.3 W/kg ± 16.5 % (k=2)

Certificate No: D1900V2-5d173_May17

Page 3 of 8

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Page: 285 of 328

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to food point	51,3 Ω + 4,9 jΩ
Return Loss	- 26.1 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47,5 Ω + 6,0 jΩ
Return Loss	-23.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.199 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small and 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 SAFI 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 feedbold may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	June 06, 2012

Certificate No: D1980V2-50173_May17

Page 4 01 8

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Page: 286 of 328

DASY5 Validation Report for Head TSL

Date: 31.05.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d173

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.4 \text{ S/m}$; $\epsilon_s = 41.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

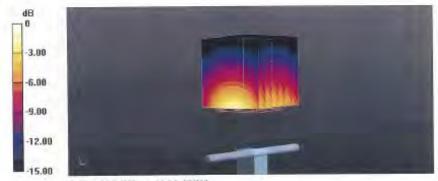
DASY52 Configuration:

- Probe: EX3DV4 SN7460; ConvF(7.98, 7.98, 7.98); Calibrated: 19.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type; QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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 = 107.7 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.26 W/kgMaximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.85 dBW/kg

Certificate No. D1900V2-5d173_May17

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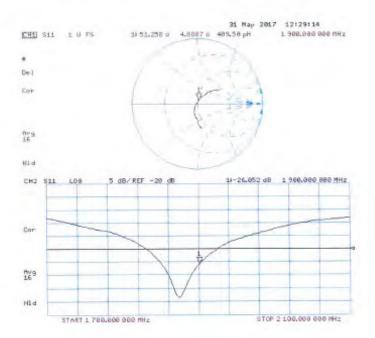
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Page: 287 of 328

Impedance Measurement Plot for Head TSL



Certificate No: D1900V2-5d173_May17

Page 6 of 8

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Page: 288 of 328

DASY5 Validation Report for Body TSL

Date: 31.05.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d173

Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m²

Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7460; ConvF(7.82, 7.82, 7.82); Calibrated: 19.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28,03,2017
- Phantom: Flat Phantom 5.0 (back); Type; QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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 = 102.9 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 17.5 W/kg SAR(1 g) = 9.98 W/kg; SAR(10 g) = 5.3 W/kg Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 14.3 W/kg = 11.55 dBW/kg

Certificate No: D1900V2-5d173_May17

Page 7 of 8

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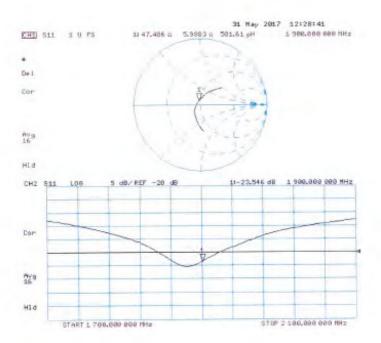
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Page: 289 of 328

Impedance Measurement Plot for Body TSL



Certificate No: D1900V2-5d173_May17

Page 8 of 8

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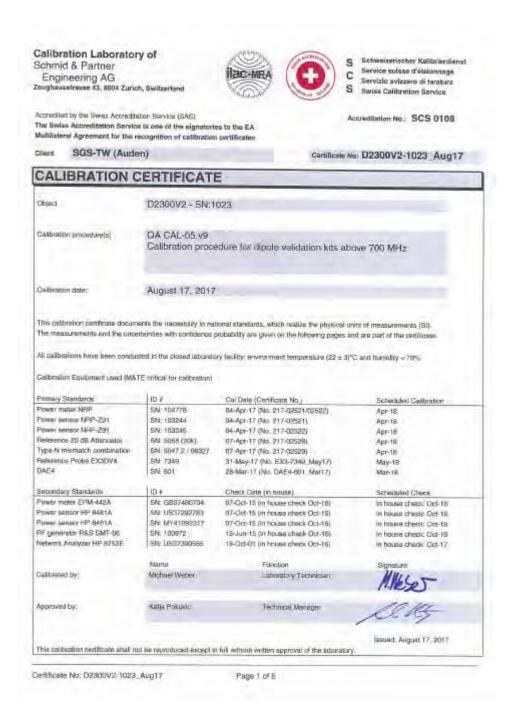
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Page: 290 of 328



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Page: 291 of 328

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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S Swiss Calibration Service

Accreditation No.: SCS 0108

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The Swiss Appreciation Service is one of the signalories to the EA Multilateral Agreement for the recognition of cultivation pertitions

Glossary:

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:

- 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, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)". March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) 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%.

Dertificate No: D2300V2-1023_Aug17

Page 2 of E

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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Page: 292 of 328

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Varsion	DASYS	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Pharsom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	ds. dy. dz = 5 mm	
Frequency	2300 MHz ± f MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22,0 °C	39.5	1.67 mno/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.3 ± 6 %	1.70 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	12.0 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	47,2 W/kg ± 17,0 % (k=2)

SAR averaged over 10 cm² (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.74 W/kg
SAR for nominal Head TSL parameters	Wt of besilemon	22.7 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	52.9	1.81 mbolm
Massured Body TSL parameters	(29.0 ± 0.2) °C	52.3 ± 6 %	1.86 mbs/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm2 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	11.8 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	45,4 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL.	condition	
SAR measured	250 mW input power	5.68 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.5 W/kg ± 16.5 % (R=2)

Certificate No. D2306V2-1023_Aug17

Page 3 of 8

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Page: 293 of 328

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.4 Ω − 3.1 JΩ	
Return Loss	- 29.0 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	44.9 \(\O = 2.2 \) \(\O = 2.2 \)	
Return Loss	- 24.7 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.171 ns	7
----------------------------------	----------	---

After long term use with 100W radiated power, only a slight warming of the dipote near the feedpoint can be measured.

The dipole is made of standard semingid 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 clipole 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 30, 2009

Certificate No: D2300V2-1023_Aug17

Page 4 of 8

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Page: 294 of 328

DASY5 Validation Report for Head TSL

Date: 17.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medium parameters used: f = 2300 MHz; $\sigma = 1.7 \text{ S/m}$; $\epsilon_i = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

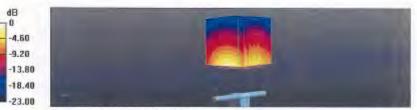
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.31, 8.31, 8.31); Calibrated: 31.05,2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6,10(7417)

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 = 109.5 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 23.6 W/kg SAR(1 g) = 12 W/kg; SAR(10 g) = 5.74 W/kgMaximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.5 W/kg = 12.67 dBW/kg

Certificate No: D2300V2-1023 Aug 17

Page 5 of 8

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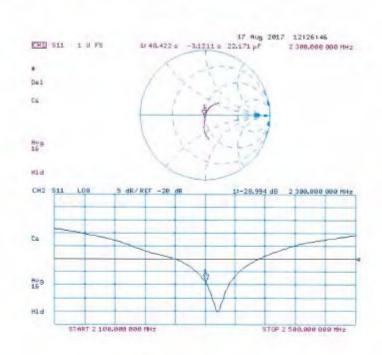
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Page: 295 of 328

Impedance Measurement Plot for Head TSL



Certificate No: D2300V2-1023_Aug17

Page 6 of 8

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Page: 296 of 328

DASY5 Validation Report for Body TSL

Date: 17.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medium parameters used: f = 2300 MHz; $\sigma = 1.86$ S/m; $\epsilon_c = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

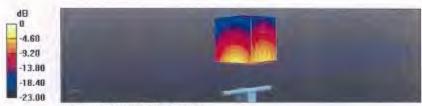
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.22, 8.22, 8.22); Calibrated; 31.05.2017;
- · Sensor-Surface: J Amm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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 = 102.2 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 22.3 W/kg SAR(1 g) = 11.8 W/kg; SAR(10 g) = 5.68 W/kg

Maximum value of SAR (measured) = 17.6 W/kg



0 dD = 17.6 W/kg = 12.46 dDW/kg

Certificate No: D2300V2-1023_Aug17

Page 7 of 8

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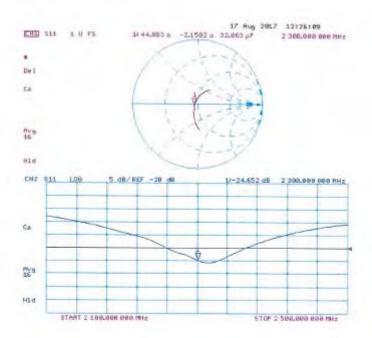
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Page: 297 of 328

Impedance Measurement Plot for Body TSL



Certificate No: D2300V2-1023_Aug17 Page 8 of 8

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Page: 298 of 328

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	ERTIFICATE		
Object	D2450V2 - SN: 7	27	
Calibration procedure(s)	QA CAL-05.v9	dure for dipole validation kits abo	700 MHz
	Galibralion proce	oute for oppose vandation kits abo	We 700 WINZ
Calibration data.	April 21, 2017		
he measurements and the uncer	rtainties with confidence p	ional standards, which realize the physical un rebebility are given on the following pages an ry facility: environment temperature (22 ± 3)*(d are part of the certificate.
Calibration Equipment used (MS)		у коле, симпонных стрекаме (22.2.3) у	o and reminding C 10 m.
Primary Standards	10.6	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apri18
OMSE LIBRRET LALLE.			
	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
rawer sensor NAP-Z91	SN: 100244 SN: 100245	04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02522)	Apr-18 Apr-18
Power sensor NRP-ZB1 Power sensor NRP-ZB1			
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attanuato/	SN: 103245	D4-Apr-17 (No. 217-02522)	Apr-18
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Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EXSCW4	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327	01-Apr-17 (No. 217-02522) 07-Apr-17 (No. 217-02528) 07-Apr-17 (No. 217-02529)	Apr-18 Apr-18 Apr-18
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Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Power manuals Power manuals Power maker EPM-442A	SN: 103245 SN: 5058 (20k) SN: 5057.2 / 06327 SN: 7348 SN: 601	01-Apr-17 (No. 217-02522) 07-Apr-17 (No. 217-02528) 07-Apr-17 (No. 217-02529) 31-Dec-16 (No. EX3-7349, Dec16) 28-Mar-17 (No. DAE-4-601, Mar 17) Check Date (in house)	Apr-18 Apr-18 Apr-18 Dec-17 Mar-18 Scheduled Check
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Certificate No: D2450V2-727_Apr17

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Page 1 of 8

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Page: 299 of 328

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Accredited by the Selse Accreditation Service (SAS)

The Swize Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration pertificates

Glossary:

TSL tissue simulating liquid sensitivity in TSL / NORM x,y,z ConvF 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
- 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) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010 d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) 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 Réturn 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: D2460V2-727_April7

Page 2 of E

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Page: 300 of 328

Measurement Conditions

as far as not given on page 1 DASY 6

DASY Version	DASY5	V52.10.0
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

rs 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	37.7 ± 6 %	1.87 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	13.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.3 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	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.5 ± 6 %	2.03 mha/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.01 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.8 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-727_Apr17

Page 3 of 8

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Page: 301 of 328

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	56.3 Ω + 2.1 jΩ
Return Loss	- 24.0 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	51.1 Ω + 4.1 jΩ
Return Loss	- 27.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.148 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the cipole. The antenna is therefore short-circuited for DC-signals. On some of the cipoles, 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 Apr17 Page 4 of 8

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Page: 302 of 328

DASY5 Validation Report for Head TSL

Date: 21.04.2017

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; $\sigma = 1.87 \text{ S/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section

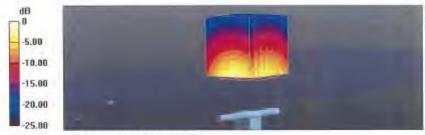
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.72, 7.72, 7.72); Calibrated: 31,12,2016;
- · Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front): Type: QD 000 P50 AA; Serial: 1001
- DASY52 52,10.0(1442); SEMCAD X 14.6.10(7413)

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 = 109.8 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 27.3 W/kg SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.18 W/kgMaximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg = 13.24 dBW/kg

Certificate No: D2450V2-727_Apr17

Page 5 of 8

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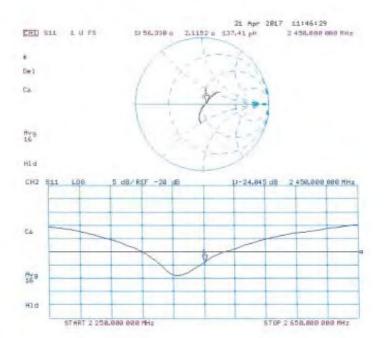
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Page: 303 of 328

Impedance Measurement Plot for Head TSL



Certificate No: D2450V2-727_Apr17

Page 6 of 8

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Page: 304 of 328

DASY5 Validation Report for Body TSL

Date: 21.04.2017

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; $\sigma = 2.03 \text{ S/m}$; $\epsilon_i = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

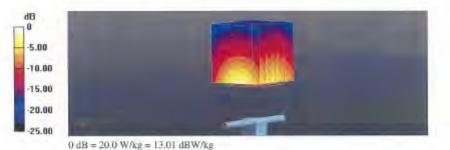
- Probe: EX3DV4 SN7349; ConvF(7.79, 7.79, 7.79); Calibrated: 31.12,2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1442); SEMCAD X 14.6.10(7413)

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 = 105.0 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 25.4 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.01 W/kgMaximum value of SAR (measured) = 20.0 W/kg



Certificate No: D2450V2-727_April7

Page 7 of 8

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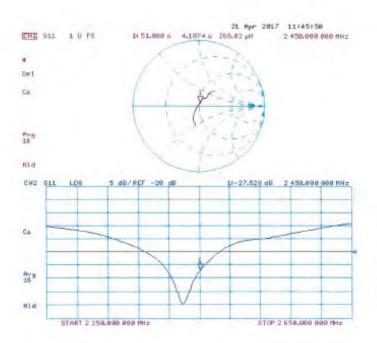
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Page: 305 of 328

Impedance Measurement Plot for Body TSL



Certificate No: D2450V2-727, Apr17

Page 8 of 8

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Page: 306 of 328

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S Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No. SCS 0108

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SGS-TW (Auden)

Certificate No: D2600V2-1005 Jan17

Doject	D2600V2 - SN:10	005	
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz		we 700 MHz
Self-breation delta:	January 25, 2017		
		onel standards, which realize the physical un	
		robsbifty are given on the following pages an	
III salkintuus haus tans seedis	and in the closest laborate	ry facility: environment temperature (22 ± 3)*1	C and humisty - 70%
ut cauprations have been conduc	sed in the closed laborato	ry tackry: any fortiment temperature (22 ± 3) t	and numbery < 18%
Calibration Equipment used (MS)	E cetical for calibration)		
Primary Standards	ID #	Cal Calo (Certificate No.)	Scheduled Caroninon
Power meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
ower sensor NRP-Z91	SN: 103244	06-April 16 (No. 217-02288)	Apr-17
	SN: 103245	06-Apri-15 (No. 217-02289)	Apr-17
ower sensor NRP-Z91			Apr-17
	SN: 5058 (20k)	05-Apr-16 (No. 217-02292)	Marin.
Power sensor NRP-ZB1 Reference 20 dB Attenuator Type-N mismatch combination	SN: 5056 (20k) SN: 5047.2 / 06327	05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02296)	Apr-17
Reference 20 dB Attenuator Type-N mismatch combination	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
Reference 20 dB Attenuator	SN: 5047.2 / 06327	05-Apr-16 (No. 217-02296)	Apr-17
Reference 20 dB Attenuator Type-N mismatch complination Reference Proce EX3DV4	SN: 5047.2 / 06327 SN: 7349	05-Apr-16 (No. 217-02296) 31-Dec-16 (No. EX3-7346_Dec/16)	Apr-17 Dec-17
Reference 20 dB Attenuator Type-N mismatch combination Reference Proce EX3DV4 ME4 Secondary Stendards	SN: 5047.2 / 06327 SN: 7348 SN: 601	05-Apr-16 (No. 217-0296) 31-Dec-16 (No. EX3-7346, Dec16) 04-Jun-17 (No. DAE4-601_Jan17)	Apr-17 Dec-17 Jan-18
Reference 20 dB Attenuation ype-N mismatch combination reference Probe EX3DV4 MAE4 Secondary Standards	SN: 5047.2 / 06327 SN: 7348 SN: 601	05-Apr-16 (No. 217-02296) 31-Dac-16 (No. EX3-7346, Dec15) 04-Jim-17 (No. DAE4-601_Jan17) Check Date (in house)	Apr-17 Dec-17 Jan-18 Scheduled Check
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elegance 20 dB Attenuator ype-N mismatch comeination reference Proce EX3DV4 AE4 econology Stendards speciment EPM-442A rosers sensor HP 8451A briefs sensor HP 8451A	SN: 5047.2 / 06327 SN: 7346 SN: 601 ID 4 SN: GB37480704 SN: US37292783	05-Apr-16 (No. 217-02296) 31-Dec-16 (No. EX3-7349, Dec16) 04-Jan-17 (No. DAE4-601, Jan-17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)	Apr-17 Dec-17 Jan-18 Scheduled Check In nouse check: Oct-18 In house check: Oct-18
Selerance 20 dB Attenuator Type-N mismisch combination Tedratence Proce EX3DV4 ME4 Secondary Standards Tower mater EPM-442A Tower sensor HP 8481A Tower sensor HP 8481A Tower sensor HP 8481A	SN: 5047.2 / 06327 SN: 7348 SN: 601 D 4 SN: GB37480704 SN: US37292763 SN: MY41082317	05-Apr-16 (No. 217-02296) 31-Dec-16 (No. EX3-7949, Dec16) 04-Jan-17 (No. DAE-4-601, Jan-17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)	Apr-17 Dec-17 Jan-18 Scheduled Check In house check: Oct-18 In house check: Oct-18 In house check: Oct-18
Reference 20 dB Attenuator Type-N mismatch combination Reference Proce EX3DV4 DAE4	SN: 5047.2 / 06327 SN: 7548 SN: 801 ID 4 SN: GB37480704 SN: US37292783 SN: MV41082817 SN: 100972	05-Apn-16 (No. 217-02296) 31-Dae-16 (No. EX3-7346, Dec15) 04-Jian-17 (No. DAE-4-601 Jan17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-18)	Apr-17 Dec-17 Jan-18 Scheduled Check In nouse check: Oct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-18
Selerance 20 dB Attenuator Type-N mismatch combination sederance Proce EX3DV4 MAE4 Secondary Stendards Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Metwork Analyzer HP 8753E	SN: 5047.2 / 06327 SN: 7048 SN: 801 ED 4 SN: GB37480Y04 SN: US37292783 SN: MY4102317 SN: 1003772 SN: US37380565	05-Apn-16 (No. 217-02296) 31-Dec-16 (No. EX3-7349, Dec16) 04-Jan-17 (No. DAE4-601_Jan-17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-18) 16-Oct-07 (in house check Oct-16)	Apr-17 Dec-17 Jan-18 Scheduled Check In house check: Dct-18 In house check: Dct-18 In house check: Dct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-17
Reference 20 dB Attenuator Type-N mismatch combination Reference Proce EX3DV4 DAE4 Secondary Standards Power mater EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E	SN: 5047.2 / 06327 SN: 7048 SN: 801 ED 4 SN: GB37480 / 04 SN: US37292783 SN: MY41032317 SN: 1003772 SN: US37380565 Name Johannes Kurikka	05-Apn-16 (No. 217-02296) 21-Dac-16 (No. EX3-7349, Dec15) 04-Jian-17 (No. DAE-4-601 Jan17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-16) 16-Oct-01 (in house check Oct-16) Function Laboratory Technician	Apr-17 Dec-17 Jan-18 Scheduled Check In house check: Dct-18 In house check: Dct-18 In house check: Dct-18 In house check: Dct-18 In house check: Dct-18 In house check: Dct-18
Reference 20 dB Attenuator Type-N mismisch combination Reference Proce EX3DV4 DAE4 Secondary Stenderds Power melor EPM-142A Power sensor HP 8481A Prower sensor HP 8481A RF generator R&S SMT-05 Network Analyzer HP 8753E	SN: 5047.2 / 06327 SN: 7346 SN: 601 D 4 SN: GB37480704 SN: US37292783 SN: MY41082317 SN: 100972 SN: US37390565 Name	05-Apn-16 (No. 217-02296) 31-One-16 (No. EX3-7346, Dec16) 04-Jan-17 (No. DAE4-601, Jan-17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-16) 18-Oct-01 (in house check Oct-16)	Apr-17 Dec-17 Jan-18 Scheduled Check In house check: Dct-18 In house check: Dct-18 In house check: Dct-18 In house check: Dct-18 In house check: Dct-18 In house check: Dct-18

Certificate No: D2600V2-1005_Jan17

Page 1 of 8

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Page: 307 of 328

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Glossary:

tissue simulating liquid TSL ConvE 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.
- 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
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)". March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) 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%

Commissio No: D9600VS-1006 Jan 17

Page 2 nl B

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Page: 308 of 328

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	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.95 mho/m
Measured Head TSL parameters	(22,0 ± 0.2) °C	37.4 ± 6 %	2.05 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-	-

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW Input power	14.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.5 W/kg = 17.0 % (k=2)

SAR averaged over 10 cm ⁸ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.32 W/kg
SAR for nominal Head TSL parameters	normalized to TW	24.8 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.8 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.3 ± 6%	2.20 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	(400)	

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	55.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ^S (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6:20 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.7 W/kg ± 16.5 % (k=2)

Certificate No: D2600V2-1005, Jan 17

Page 8 of 8

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Page: 309 of 328

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.9 Ω - 4.7 µ2	
Return Loss	- 26.5 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	44.7 (1 - 3.2)()
Return Loss	-23.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.154 ns
	1

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 semitigid coaxial cable. The canter conductor of the feeding line is directly connected to the second arm of the dipole. The entenna 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 23, 2006

Cemticate No: D2600V2-1005_Jan17

Page 4 of 8

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Page: 310 of 328

DASY5 Validation Report for Head TSL

Date: 25.01.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.05 \text{ S/m}$; $\varepsilon_k = 37.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.56, 7.56, 7.56); Calibrated: 31.12.2016;
- Sensor-Surface: 1,4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.01.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

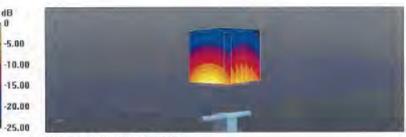
Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 116.2 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 30.5 W/kg

SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.32 W/kgMaximum value of SAR (measured) = 24.2 W/kg



0 dB = 25.2 W/kg = 13.84 dBW/kg

Certificate No: D2600V2-1005_Jan17

Page 5 of 8

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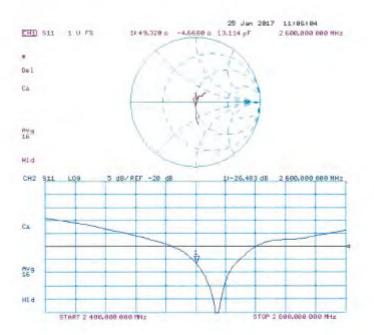
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Page: 311 of 328

Impedance Measurement Plot for Head TSL



Certificate No: D2600V2-1005 Jan17

Page 6 of 8

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Page: 312 of 328

DASY5 Validation Report for Body TSL

Date: 18.01.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1005

Communication System: UID 0 - CW; Frequency: 2600 MHz.

Medium parameters used: f = 2600 MHz; $\sigma = 2.2 \text{ S/m}$; $z_c = 52.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.48, 7.48, 7.48); Calibrated: 31.12.2016;
- · Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.01.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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 = 108.8 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 28.8 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.2 W/kgMaximum value of SAR (measured) = 23.3 W/kg



0 dB = 23.3 W/kg = 13.67 dBW/kg

Certificate No: D2600V2-1005 Jan17

Page 7 of 8

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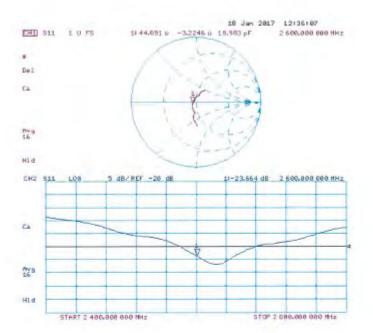
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Page: 313 of 328

Impedance Measurement Plot for Body TSL



Certificate No: D2600V2-1005_Jan17

Page 8 of 8

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Page: 314 of 328

Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio avizzero di taratura S Swiss Calibration Service

Appreditation 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

DECH-V2.1022 Jan17

ALIBRATION	ERTIFICATE		
Object	D5GHzV2 - SN:1	023	
Caribration pricedure(s)	QA CAL-22.v2 Calibration proce	dure for dipole validation kits bet	ween 3-6 GHz
Calibration date:	January 20, 2017		
This calibration portificate docume the measurements and the unce	entil the iraceability to nati rtainties with confidence p	ional standards, which realize the physical un rebability are given on the hillowing pages an	its of measurements (SI), of are part of the certificate
VI calibrations have been conduc	stad in the closed laboration	ry facility, any ronmont temperature (22 \pm 3) $^{\circ}$	Cand humidity < 70%.
Calibration Equipment used (M&	TE critical for calibration)		
Primary Standards	10 +	Cal Date [Centificate No.]	Scheduled Calibration
	SN: 104778	06-Apr-16 (No. 217-02289/02289)	Apr-17
OWET THESE MESS			
Additional files	Sec. 103244	96-Apr-16 (No. 217-02288)	Apr-17
Power sensor NPP-Z91	17.00		
Cower sensor NRP-Z91 Cower sensor NRP-Z91	Sec. 103244	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) 85-Apr-16 (No. 217-02282)	Apr-17 Apr-17 Apr-17
Power sensor NPP-Z91 Power sensor NPP-Z91 Reference 20 dB Attenuator	SN: 103244 SN: 103245	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02282) 05-Apr-16 (No. 217-02295)	Apr-17 Apr-17 Apr-17 Apr-17
Power sensor NRP-Z31 Power sensor NRP-Z31 Reference 20 dB Attenuation Type-N intsmatch combination	58£ 103244 SN: 103245 SN: 5058 (20k)	(96-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-0-6-16 (No. EXS-8503_Dec 16)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17
Power sensor NPP-231 Power sensor NPP-231 Reference 20 dB Attenuator Type-IV internation Reference Probe EX3DV4	5N: 103244 SN: 103245 SN: 5056 (20k) SN: 5047.2 / 06327	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02282) 05-Apr-16 (No. 217-02295)	Apr-17 Apr-17 Apr-17 Apr-17
Power sensor NEP-Z91 Power sensor NEP-Z91 Reference 20 dB Attanuator Type-N mismatch combination Telerance Probe EX30V4 AAE4	SN: 103244 SN: 103245 SN: 5058 (204) SN: 5047.2 / 06327 SN: 3603	(96-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-0-6-16 (No. EXS-8503_Dec 16)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17
Cower sensor NEP-Z91 Power sensor NEP-Z91 Reference 20 dB Attanuator type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Stanzantis	SN: 103244 SN: 103245 SN: 5056 (20k) SN: 5057.2 / 06327 SN: 3503 SN: 801	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-Dec-16 (No. EXS-6503_Dec16) 04-Jen-17 (No. DAE4-601_Jan17)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17 Jan-18
Power sensor NPP-291 Power sensor NPP-291 Power sensor NPP-291 Power nemous NPP-291 Power nemous NPP-291 Power meer EPM-442A	5%: 103244 5N: 103245 5N: 5056 (20k) 5N: 5047.2 / 06327 5N: 3603 5N: 501	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 31-Dec-16 (No. EXS-8593_Dec16) 04-Jen-17 (No. DAE4-GOL_Jan17) Check Date (in house)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17 Jan-18 Schedulet Check In house check Oct-18 In house check Oct-18
Power sensor NPP-Z31 Power sensor NPP-Z31 telerence 20 dB Atlanuator type-N internation combination fallerance Probe EX3DV4 DAE4 Secondary Stanzards Power meser EPM-442A Power sensor HP 8481A	SN: 103244 SN: 103245 SN: 5058 (204) SN: 5047 2 / 06327 SN: 3608 SN: 601	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02295) 05-Apr-16 (No. 217-02295) 01-Dec-16 (No. 217-02295) 01-Dec-16 (No. 217-02295) 04-Jen-17 (No. DAE4-G01_Jan17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17 Jan-18 Scheduled Check In house check Dith-8 In house check Dith-8 In house check Dith-8
Power sensor NPP-Z91 Power sensor NPP-Z91 Power sensor NPP-Z91 Power sensor NPP-Z91 Power neser EPM-442A Power sensor HP 9481A Power sensor HP 9481A	SN: 103244 SN: 103245 SN: 9086 (20kl) SN: 9087 2 / 96327 SN: 909 SN: 801 SN: 6097480704 SN: 0897480704	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-Dec-16 (No. 217-02295) 31-Dec-16 (No. 217-02295) 06-Jen-17 (No. DAE4-G01_Jan17) Chack Date (in house) 07-Oct-15 (in house chack Oct-16) 07-Oct-15 (in house chack Oct-18)	Apr-17 Apr-17 Apr-17 Dec-17 Jan-18 Schedulet Check In house check Oct-18 In house check Oct-19 In house check Oct-19 In house check Oct-19
Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator (ype-N mismatch combination Reference Probe EX30V4 DAE4 Secondary Stanzards Power major EPM-442A Power sensor HP 8481A RF generator R&S SMT-08	SN: 103244 SN: 103245 SN: 9086 (20kl) SN: 9087 2 / 06327 SN: 3609 SN: 601 SN: 6897480704 SN: US37292789 SN: MY41082317	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02295) 05-Apr-16 (No. 217-02295) 01-Dec-16 (No. 217-02295) 01-Dec-16 (No. 217-02295) 04-Jen-17 (No. DAE4-G01_Jan17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17 Jan-18 Schedulet Check In house check Oct-18 In house check Oct-18 In house check Oct-19
Power sensor NPP-Z91 Power sensor NPP-Z91 Reference 20 dB Attanuator Type-N mismatch combination Telerance Probe EX30V4 NAE4 Secondary Stanzards Power sensor HP 8481A Power sensor HP 8481A Power sensor HP 8481A	SN: 103244 SN: 103245 SN: 9086 (20k) SN: 5047 2 / 06327 SN: 3503 SN: 601 SN: 601 SN: 6087480704 SN: US37282783 SN: MY41082317 SN: 100972	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02282) 05-Apr-16 (No. 217-02282) 05-Apr-16 (No. 217-02282) 05-Dac-16 (No. 217-02282) 07-Dac-17 (No. DAE4-G01_Jan17) Check Date (in house) 07-Dac-15 (in house check Dat-16) 07-Oat-15 (in house check Oat-16) 17-Oat-15 (in house check Oat-16) 15-Jun-15 (in house check Oat-16)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17 Jan-18 Scheduled Check In house check Oct-18 In house check Oct-18 In house check Oct-18 In house check Oct-18
Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-8481A Power sensor NRP-8481A RF generator R&S SMT-08 Notwork Analyzer NR-8753E	SN: 103244 SN: 103245 SN: 9086 (204) SN: 9087 2 / 06327 SN: 3609 SN: 801 SN: 0637480704 SN: US37282783 SN: MY41082317 SN: 100972 SN: US37390585	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02290) 05-Apr-16 (No. 217-02290) 07-06-16 (No. 218-02290) 07-06-16 (No. 218-02290) 07-06-16 (In house) 07-06-15 (In house) 07-06-15 (In house check Oct-16) 07-06-15 (In house check Oct-16) 15-Jun-15 (In house check Oct-16) 18-Oct-01 (In house check Oct-16)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17 Jan-18 Schedulet Check In house check Oct-18 In house check Oct-10 In house check Oct-10 In house check Oct-17
Power sensor NPP-291 Prower sensor NPP-291 Reference 20 dB Attenuator Type-N internation combination Reference Probe EX30V4 DAE4 Secondary Standards Power reser EPM-442A Power sensor IPP 8481A Power sensor IPP 8481A RE generator R&S SMT-08 Network Analyzer IPP 875SE Cellerated by:	SN: 103244 SN: 103245 SN: 9056 (20kl) SN: 9047 2 / 06327 SN: 903 SN: 801 SN: 6097480704 SN: US37282780 SN: MY41082317 SN: US37390585 Name	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-Dec-16 (No. 217-02295) 31-Dec-16 (No. 217-02295) 07-Det-16 (In Dissessing Dec-16) 07-Oet-16 (In house check Dot-16) 07-Oet-15 (In house check Dot-16) 15-Jun-15 (In house check Dot-16) 15-Jun-15 (In house check Dot-16) 15-Oet-01 (In house check Oct-16)	Apr-17 Apr-17 Apr-17 Apr-17 Dec-17 Jan-18 Schedulet Check In house check Oct-18 In house check Oct-18 In house check Oct-18 In house check Oct-18 In house check Oct-18 In house check Oct-17

Certificate No: D5GHzV2-1023_Jan17

Page 1 of 15

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Page: 315 of 328

Calibration Laboratory of Schmid & Partner Engineering AG Zeugrapusstance S. 1884 Zurich, Switzerland





S Schweizerischer Kalibrierdienun G Service subste distalerenage Service substend di territori Sevies Calibration Service

Accreditation No.: SCS 0108

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Multipartial Agreement for the recognition of calibration certificates

Glossary:

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:

- EEE 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 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- b) 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 detay 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%.

Detricate No: 05GHzV2 (023 Jan17

Page 2 of 15

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Page: 316 of 328

Measurement Conditions

DASY eystern configuration, as far as not given on page 1.

DASY Version	DASYS	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4,0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

	Temperature	Permittivity	Conductivity.
Nominal Head TSL parameters	22.0 °C	38.0	4.66 mhp/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	4.45 mho/m ± 6.%
Head TSL temperature change during test	<05℃		-

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR meresured	100 mW input power	7.55 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	75.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR messured	100 mW input power	2.16 W/kg
SAR for numinal Head TSL parameters	normalized to 1W	21.5 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1923_Jan17

Page 3 of 16

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Page: 317 of 328

Head TSL parameters at 5300 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35,2 ± 6 %	4.55 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	775	

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.0 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	347 = 6%	4.85 mho/m ± 8 %
Head TSL temperature change during test	₹0.5°C	-	

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm2 (10 g) of Head TSL	condition	
SAR measured	100 mW Input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.1 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1023_Jan17

Page 4 of 15

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Page: 318 of 328

Head TSL parameters at 5800 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	28.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	344±6%	5 05 mha/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-	_

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm2 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.82 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm2 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters.	normalized to 1W	22.0 W/kg ± 19.5 % (k=2)

Gertificate No: D5GHzV2-1025_Jan 17

Page 5 of 45

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Page: 319 of 328

Body TSL parameters at 5200 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 %	49.0	5,30 mha/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.5 ± 6 %	5.36 mho/m ± 6 %
Body TSL temperature change during test	<0.5 ℃		_

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	7,32 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	72.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	.2.05 W/kg
SAR for nominal Body TSL parameters.	normalized to 1W	20.3 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	47.3±6%	5.50 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		-

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm2 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.68 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	76.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	bondition	
SAR measured	100 mW input power	2.15 W/kg
SAR for nominal Body TSL parameters	Normalized to 1V/	21.3 W/kg = 19.5 % (k=2)

Sertificate No: D5Gi+zV2-1023 Jen 17

Page B of 15

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Page: 320 of 328

Body TSL parameters at 5600 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mba/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.5 ± 6 %	5.90 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 ℃	_	-

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL.	Condition	
SAR measured	100 mW input power	8.02 W/kg
SAR for nominal Body TGL passmeters	normalized to 1W	79.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	condition	
SAR measured	100 inW input power	2.26 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.4 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5800 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6,00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.3 ± 6 %	6.17 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	_	-

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm2 (1 g) of Body TSL	Condition	
SAR measured	100 mW Input power	7.64 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR magsured	100 mW input power	2.13 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.1 W/kg ± 19.5 % (k=2)

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Page 7 of 15

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Page: 321 of 328

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	49.6 Ω - 6.7 Ω	
Return Loss	- 23,4 dB	

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	49.0 Ω = 1.8 μΩ	
Return Loss	+33.5 dB	

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.1 Ω - 0,2 jΩ
Fleturn Loss	- 28.2 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	55.4 \O + 2.8 \O	
Fletum Loss	-24.8 dB	

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	48.9 Ω - 7.0 jΩ
Return Loss	- 22.9 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	51.0 Ω - 1.0 Ω
Return Loss	- 37.0 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	55.6 \(\Omega + 1.5 \)
Return Loss	- 25.2 dB

Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	56.6 Ω + 2.7 jΩ
Return Loss	= 23.6 dB

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Page 8 of 15

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Page: 322 of 328

General Antenna Parameters and Design

Electrical Delay (one direction)	Electrical Delay (one direction)	1,199 ns
----------------------------------	----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 05, 2004

Certificate No: D5GHzV2-1023_Jan17 Page 9 of 15

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Page: 323 of 328

DASY5 Validation Report for Head TSL

Date: 20.01.2017

Test Laborntory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; 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; $\alpha = 4.45$ S/m; $\epsilon_r = 35.4$; $\rho = 1000$ kg/m

Medium parameters used: l = 5300 MHz; $\sigma = 4.55 \text{ S/m}$; $l_s = 35.2$; $\rho = 1000 \text{ kg/m}^3$.

Medium parameters used: l = 5600 MHz; n = 4.85 S/m; $\epsilon_r = 34.7$; $\rho = 1000 \text{ kg/m}^2$.

Medium parameters used: f = 5800 MHz; $\pi = 5.05 \text{ S/m}$; $\varepsilon_t = 34.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (JEBE/IEC/ANSI C63 19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.76, 5.76, 5.76); Calibrated: 31.12.2016, ConvF(5.35, 5.35, 5,35); Calibrated. 31.12.2016, ConvF(5.09, 5.09, 5.09); Calibrated: 31.12.2016, ConvF(5.0). 5.01. 5.01); Calibrated: 31.12.2016;
- Sensor-Surface: LAmm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.01.2017
- Phantom: Flut Phuntom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan.

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.58 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 27.6 W/kg

SAR(1 g) = 7.55 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 17.4 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.01 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 31,6 W/kg

SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 19.3 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 = 71.94 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 19.8 W/kg

Cemtionte No: 05GHzV2-1023_Jan17

Page 10 of 15

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Page: 324 of 328

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 = 69.84 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 32.7 W/kg

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg

Certificate No: D5GHzV2-1023_Jan17

Page 11 of 15

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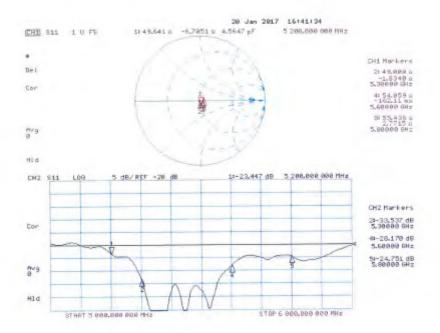
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Page: 325 of 328

Impedance Measurement Plot for Head TSL



Certificate No: D6GHzV2-1023_Jan17

Page 12 of 15

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Page: 326 of 328

DASY5 Validation Report for Body TSL

Date: 19 01:2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; 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; $\sigma = 5.36$ S/m; $\varepsilon_r = 47.5$; $\rho = 1000$ kg/m³

Medium parameters used: f = 5300 MHz: $\sigma = 5.5 \text{ S/m}$: $\varepsilon_i = 47.3$: $\rho = 1000 \text{ kg/m}^3$

Medium parameters used: l = 5600 MHz; $\sigma = 5.9 \text{ S/m}$; $v_i = 46.6$; $\rho = 1000 \text{ kg/m}^3$

Medium parameters used: f = 5800 MHz; $\sigma = 6.17 \text{ S/m}$; $\varepsilon_r = 46.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63, 19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.29, 5.29, 5.29); Calibrated: 31 12.2016, ConvF(5.04, 5.04. 5.04); Calibrated: 31.12.2016, ConvF(4.57, 4.57; 4.57); Calibrated. 11.12.2016, ConvF(4.48, 4.48, 4.48); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601, Calibrated: 04.01.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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 = 65.54 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 28.1 W/kg

SAR(1 g) = 7.32 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 16.6 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 = 66.93 V/m; Power Drift = -0.07 dB

Penk SAR (extrapolated) = 30.1 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.15 W/kg

Maximum value of SAR (measured) = 17.6 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 = 67.09 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 33.7 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.26 W/kg

Maximum value of SAR (measured) = 18.9 W/kg

Certificate No. D5GHzV2-1023 Jan17

Page 12 of 16

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Page: 327 of 328

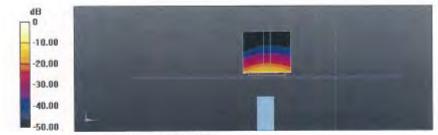
Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.14 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 34.0 W/kg

SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

Certificate No: D5GHzV2-1023_Jan17

Page 14 of 15

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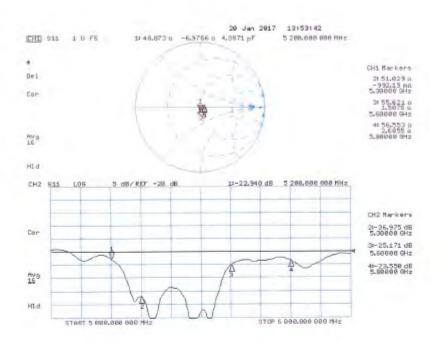
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Page: 328 of 328

Impedance Measurement Plot for Body TSL



Certificate No: D5GHzV2-1023_Jan17

Page 15 of 15

- End of 1st part of report -

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