

SAR TEST REPORT



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

Equipment Under Test	Notebook Computer
Brand Name	HP
Model No.	HSN-I09C
Company Name	HP Inc.
Company Address	3390 East Harmony Road Fort Collins, Colorado 80528 United States
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013, KDB248227D01v02r02, KDB865664D01v01r04, KDB865664D02v01r02, KDB447498D01v06, KDB616217D04v01r02,
FCC ID	B94-8265D2WM
Date of Receipt	Nov. 01, 2017
Date of Test(s)	Nov. 06, 2017 ~ Nov. 10, 2017
Date of Issue	Dec. 21, 2017

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

Remarks:

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

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Signed on behalf of SGS

Sr. Engineer

Afu Chen

Date: Dec. 21, 2017

Supervisor

Ricky Huang

Date: Dec. 21, 2017

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Revision History

Report Number	Revision	Description	Issue Date
EN/2017/B0001	Rev.00	Initial creation of document	Nov. 21, 2017
EN/2017/B0001	Rev.01	1 st modification	Nov. 30, 2017
EN/2017/B0001	Rev.02	2 nd modification	Dec. 12, 2017
EN/2017/B0001	Rev.03	3 rd modification	Dec. 21, 2017

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
No.8, Nei Hu Road, New Taipei Industrial Park, NeiHu District, New Taipei City, Taiwan	
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

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

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1.3 Description of EUT

Equipment Under Test	Notebook Computer		
Brand Name	HP		
Model No.	HSN-I09C		
FCC ID	B94-8265D2WM		
Mode of Operation	<input checked="" type="checkbox"/> WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) <input checked="" type="checkbox"/> Bluetooth		
Duty Cycle	WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M)	1	
	Bluetooth	1	
TX Frequency Range (MHz)	WLAN802.11 b/g/n(20M)	2412	— 2462
	WLAN802.11 n(40M)	2422	— 2452
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	— 5240
	WLAN802.11 n(40M)/ac(40M) 5.2G	5190	— 5230
	WLAN802.11 ac(80M) 5.2G	5210	
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260	— 5320
	WLAN802.11 n(40M)/ac(40M) 5.3G	5270	— 5310
	WLAN802.11 ac(80M) 5.3G	5290	
	WLAN802.11 a/n/ac(20M) 5.6G	5500	— 5720
	WLAN802.11 n/ac(40M) 5.6G	5510	— 5710
	WLAN802.11 ac(80M) 5.6G	5530	— 5690
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	5745	— 5825
	WLAN802.11 n(40M)/ac(40M) 5.8G	5710	— 5795
	WLAN802.11 ac(80M) 5.8G	5775	
	Bluetooth	2402	— 2480

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Channel Number (ARFCN)	WLAN802.11 b/g/n(20M)	1	—	11
	WLAN802.11 n(40M)	3	—	9
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	36	—	48
	WLAN802.11 n(40M)/ac(40M) 5.2G	38	—	46
	WLAN802.11 ac(80M) 5.2G			42
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	52	—	64
	WLAN802.11 n(40M)/ac(40M) 5.3G	54	—	62
	WLAN802.11 ac(80M) 5.3G			58
	WLAN802.11 a/n/ac(20M) 5.6G	100	—	144
	WLAN802.11 n/ac(40M) 5.6G	102	—	142
	WLAN802.11 ac(80M) 5.6G	106	—	138
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	149	—	165
	WLAN802.11 n(40M)/ac(40M) 5.8G	142	—	159
	WLAN802.11 ac(80M) 5.8G			155
	Bluetooth	0	—	78

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Antenna Information:

Notebook mode								
Vendor	INPAQ							
Antenna	Main (PIFA)				Aux (PIFA)			
Part Number	6036B0188701 (WA-P-LB-02-414)				6036B0188801 (WA-P-LB-02-415)			
Frequency (MHz)	2400-2500	5150-5350	5470-5725	5725-5850	2400-2500	5150-5350	5470-5725	5725-5850
Gain (dBi)	1.81	-0.23	-1.90	-1.90	0.79	-1.07	-2.31	-2.34
Tablet mode								
Vendor	INPAQ							
Antenna	Main (PIFA)				Aux (PIFA)			
Part Number	6036B0188701 (WA-P-LB-02-414)				6036B0188801 (WA-P-LB-02-415)			
Frequency (MHz)	2400-2500	5150-5350	5470-5725	5725-5850	2400-2500	5150-5350	5470-5725	5725-5850
Gain (dBi)	0.66	0.13	-0.28	0.38	1.22	-0.38	-0.14	-0.99

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The highest SAR values of Flat Mode

Max. SAR (1 g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Main	WLAN802.11 b	0.87	0.95	6	Back side
	WLAN802.11 n(40M)	0.95	0.95	8	Back side
	WLAN802.11 ac(80M) 5.2G	1.05	1.07	42	Back side
	WLAN802.11 ac(80M) 5.3G	1.10	1.11	58	Back side
	WLAN802.11 ac(80M) 5.6G	0.92	0.93	138	Back side
	WLAN802.11 ac(80M) 5.8G	0.99	1.00	155	Back side
Aux	WLAN802.11 b	0.98	0.99	1	Back side
	WLAN802.11 n(40M)	0.96	0.97	6	Back side
	Bluetooth (GFSK)	0.24	0.34	39	Back side
	WLAN802.11 ac(80M) 5.2G	1.02	1.04	42	Back side
	WLAN802.11 ac(80M) 5.3G	1.08	1.09	58	Back side
	WLAN802.11 ac(80M) 5.6G	0.99	0.99	106	Back side
	WLAN802.11 ac(80M) 5.8G	1.17	1.18	155	Back side

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The highest SAR values of Tablet Mode

Max. SAR (1 g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Main	WLAN802.11 b	0.36	0.36	1	Top side
	WLAN802.11 n(40M)	0.39	0.40	6	Top side
	WLAN802.11 n(40M) 5.2G	1.07	1.08	46	Top side
	WLAN802.11 a 5.3G	1.13	1.15	56	Top side
	WLAN802.11 n(40M) 5.3G	1.10	1.13	54	Top side
	WLAN802.11 n(40M) 5.6G	1.18	1.19	110	Top side
	WLAN802.11 ac(80M) 5.6G	1.17	1.17	138	Top side
	WLAN802.11 ac(80M) 5.8G	1.15	1.16	155	Top side
Aux	WLAN802.11 b	0.42	0.42	2	Top side
	WLAN802.11 n(40M)	0.46	0.47	6	Top side
	Bluetooth (GFSK)	0.07	0.10	39	Top side
	WLAN802.11 n(40M) 5.2G	1.00	1.00	46	Top side
	WLAN802.11 a 5.3G	1.17	1.18	60	Top side
	WLAN802.11 n(40M) 5.3G	1.10	1.10	54	Top side
	WLAN802.11 n(40M) 5.6G	1.15	1.16	110	Top side
	WLAN802.11 ac(80M) 5.6G	0.93	0.93	138	Top side
WLAN802.11 n(40M) 5.8G	1.02	1.03	159	Top side	

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The highest SAR values of Tent Mode

Max. SAR (1 g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Main	WLAN802.11 b	0.63	0.64	1	Tent
	WLAN802.11 n(40M)	0.68	0.69	6	Tent
	WLAN802.11 n(40M) 5.2G	1.09	1.10	46	Tent
	WLAN802.11 a 5.3G	1.07	1.09	52	Tent
	WLAN802.11 n(40M) 5.3G	1.02	1.04	54	Tent
	WLAN802.11 n(40M) 5.6G	1.12	1.13	110	Tent
	WLAN802.11 ac(80M) 5.6G	1.07	1.07	138	Tent
	WLAN802.11 ac(80M) 5.8G	1.07	1.08	155	Tent
Aux	WLAN802.11 b	0.65	0.65	2	Tent
	WLAN802.11 n(40M)	0.64	0.65	6	Tent
	Bluetooth (GFSK)	0.10	0.14	39	Tent
	WLAN802.11 n(40M) 5.2G	1.14	1.14	46	Tent
	WLAN802.11 a 5.3G	1.17	1.18	60	Tent
	WLAN802.11 n(40M) 5.3G	1.16	1.16	54	Tent
	WLAN802.11 n(40M) 5.6G	1.18	1.19	110	Tent
	WLAN802.11 ac(80M) 5.6G	1.08	1.08	138	Tent
WLAN802.11 n(40M) 5.8G	1.17	1.18	159	Tent	

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The highest SAR values of Stand Mode

Max. SAR (1 g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Main	WLAN802.11 b	0.02	0.02	1	Stand
	WLAN802.11 g	0.02	0.02	2	Stand
	WLAN802.11 a 5.2G	0.04	0.04	40	Stand
	WLAN802.11 n(40M) 5.2G	0.03	0.03	46	Stand
	WLAN802.11 a 5.3G	0.07	0.07	60	Stand
	WLAN802.11 n(40M) 5.3G	0.04	0.04	54	Stand
	WLAN802.11 n(40M) 5.6G	0.04	0.04	110	Stand
	WLAN802.11 ac(80M) 5.6G	0.10	0.10	138	Stand
	WLAN802.11 n(40M) 5.8G	0.04	0.04	155	Stand
Aux	WLAN802.11 b	0.01	0.01	2	Stand
	WLAN802.11 g	0.01	0.01	2	Stand
	Bluetooth (GFSK)	0.001	0.001	39	Stand
	WLAN802.11 a 5.2G	0.04	0.04	44	Stand
	WLAN802.11 n(40M) 5.2G	0.03	0.03	46	Stand
	WLAN802.11 a 5.3G	0.04	0.04	52	Stand
	WLAN802.11 n(40M) 5.3G	0.04	0.04	54	Stand
	WLAN802.11 n(40M) 5.6G	0.04	0.04	110	Stand
	WLAN802.11 ac(80M) 5.6G	0.04	0.04	138	Stand
WLAN802.11 n(40M) 5.8G	0.05	0.05	151	Stand	

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

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

Flat mode

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	17.00	16.96
		6	2437		17.00	16.62
		11	2462		17.00	16.61
		12	2467		16.50	16.45
		13	2472		8.50	8.44
	802.11g	1	2412	6Mbps	17.00	16.96
		6	2437		17.00	16.94
		11	2462		17.00	16.92
		12	2467		11.50	11.45
		13	2472		-2.50	-2.51
	802.11n-HT20	1	2412	MCS0	17.00	16.92
		6	2437		17.00	16.94
		11	2462		17.00	16.95
		12	2467		11.50	11.45
		13	2472		-2.50	-2.54
	802.11n-HT40	3	2422	MCS0	17.00	16.89
		6	2437		17.00	16.99
		8	2447		17.00	16.97
		9	2452		16.00	15.96
		10	2457		12.50	12.45
11		2462	-2.50		-2.57	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	11.00	10.85
		40	5200		11.00	10.89
		44	5220		11.00	10.87
		48	5240		11.00	10.83
	802.11n-HT20	36	5180	MCS0	11.00	10.89
		40	5200		11.00	10.90
		44	5220		11.00	10.84
		48	5240		11.00	10.86
	802.11n-VHT20	36	5180	MCS0	11.00	10.90
		40	5200		11.00	10.88
		44	5220		11.00	10.84
		48	5240		11.00	10.89
	802.11n-HT40	38	5190	MCS0	11.00	10.90
		46	5230		11.00	10.83
	802.11n-VHT40	38	5190	MCS0	11.00	10.82
		46	5230		11.00	10.85
802.11n-VHT80	42	5210	MCS0	11.00	10.91	

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	11.00	10.92
		56	5280		11.00	10.92
		60	5300		11.00	10.93
		64	5320		11.00	10.95
	802.11n-HT20	52	5260	MCS0	11.00	10.91
		56	5280		11.00	10.93
		60	5300		11.00	10.92
		64	5320		11.00	10.96
	802.11n-VHT20	52	5260	MCS0	11.00	10.93
		56	5280		11.00	10.92
		60	5300		11.00	10.92
		64	5320		11.00	10.96
	802.11n-HT40	54	5270	MCS0	11.00	10.93
		62	5310		11.00	10.95
	802.11n-VHT40	54	5270	MCS0	11.00	10.93
		62	5310		11.00	10.92
802.11n-VHT80	58	5290	MCS0	11.00	10.97	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	11.00	10.92
		116	5580		11.00	10.94
		120	5600		11.00	10.95
		124	5620		11.00	10.92
		128	5640		11.00	10.92
		132	5660		11.00	10.95
	802.11n-HT20	140	5700	MCS0	11.00	10.93
		100	5500		11.00	10.92
		116	5580		11.00	10.94
		120	5600		11.00	10.92
		124	5620		11.00	10.94
		128	5640		11.00	10.96
	802.11n-VHT20	132	5660	MCS0	11.00	10.96
		140	5700		11.00	10.92
		100	5500		11.00	10.95
		116	5580		11.00	10.92
		120	5600		11.00	10.93
		124	5620		11.00	10.97
	802.11n-HT40	128	5640	MCS0	11.00	10.92
		132	5660		11.00	10.94
		140	5700		11.00	10.92
		144	5720		11.00	10.94
		102	5510		11.00	10.95
		110	5550		11.00	10.93
	802.11n-VHT40	118	5590	MCS0	11.00	10.96
		126	5630		11.00	10.92
		134	5670		11.00	10.93
		102	5510		11.00	10.93
		110	5550		11.00	10.96
		118	5590		11.00	10.92
	802.11n-VHT80	126	5630	MCS0	11.00	10.91
		134	5670		11.00	10.93
		142	5710		11.00	10.92
		106	5530		11.00	10.99
		122	5610		11.00	10.89
		138	5690		11.00	10.95

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Main Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	11.50	11.45
		157	5785		11.50	11.43
		165	5825		11.50	11.45
	802.11n-HT20	149	5745	MCS0	11.50	11.42
		157	5785		11.50	11.47
		165	5825		11.50	11.44
	802.11n-VHT20	149	5745	MCS0	11.50	11.42
		157	5785		11.50	11.46
		165	5825		11.50	11.42
	802.11n-HT40	151	5755	MCS0	11.50	11.41
		159	5795		11.50	11.43
	802.11n-VHT40	151	5755	MCS0	11.50	11.46
		159	5795		11.50	11.43
	802.11n-VHT80	155	5775	MCS0	11.50	11.48

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	17.50	17.46
		6	2437		17.50	17.42
		11	2462		17.50	17.28
		12	2467		16.00	15.98
		13	2472		8.50	8.45
	802.11g	1	2412	6Mbps	17.50	17.38
		6	2437		17.50	17.41
		10	2457		17.50	17.43
		11	2462		17.00	16.97
		12	2467		10.50	10.43
		13	2472		-2.50	-2.53
	802.11n-HT20	1	2412	MCS0	17.50	17.42
		6	2437		17.50	17.43
		10	2457		17.50	17.41
		11	2462		17.00	16.93
		12	2467		10.50	10.47
		13	2472		-2.50	-2.53
	802.11n-HT40	3	2422	MCS0	17.00	16.92
		4	2427		17.50	17.37
		6	2437		17.50	17.44
		8	2447		16.50	16.44
		9	2452		16.00	15.93
		10	2457		12.50	12.45
		11	2462		-2.50	-2.54

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	12.00	11.89
		40	5200		12.00	11.86
		44	5220		12.00	11.88
		48	5240		12.00	11.84
	802.11n-HT20	36	5180	MCS0	12.00	11.87
		40	5200		12.00	11.90
		44	5220		12.00	11.92
	802.11n-VHT20	48	5240	MCS0	12.00	11.83
		36	5180		12.00	11.92
		40	5200		12.00	11.87
		44	5220		12.00	11.83
	802.11n-HT40	38	5190	MCS0	12.00	11.87
		46	5230		12.00	11.89
	802.11n-VHT40	38	5190	MCS0	12.00	11.82
46		5230	12.00		11.84	
802.11n-VHT80	42	5210	MCS0	12.00	11.93	

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.00	11.93
		56	5280		12.00	11.95
		60	5300		12.00	11.92
		64	5320		12.00	11.90
	802.11n-HT20	52	5260	MCS0	12.00	11.94
		56	5280		12.00	11.92
		60	5300		12.00	11.97
		64	5320		12.00	11.94
	802.11n-VHT20	52	5260	MCS0	12.00	11.96
		56	5280		12.00	11.92
		60	5300		12.00	11.96
		64	5320		12.00	11.92
	802.11n-HT40	54	5270	MCS0	12.00	11.93
		62	5310		12.00	11.95
	802.11n-VHT40	54	5270	MCS0	12.00	11.92
		62	5310		12.00	11.96
802.11n-VHT80	58	5290	MCS0	12.00	11.98	

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Aux Antenna								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
5600 MHz	802.11a	100	5500	6Mbps	11.50	11.45		
		116	5580		11.50	11.43		
		120	5600		11.50	11.42		
		124	5620		11.50	11.46		
		128	5640		11.50	11.43		
		132	5660		11.50	11.47		
	802.11n-HT20	802.11n-HT20	100	5500	MCS0	11.50	11.43	
			116	5580		11.50	11.48	
			120	5600		11.50	11.43	
			124	5620		11.50	11.46	
			128	5640		11.50	11.41	
			132	5660		11.50	11.40	
	802.11n-VHT20	802.11n-VHT20	100	5500	MCS0	11.50	11.38	
			116	5580		11.50	11.44	
			120	5600		11.50	11.47	
			124	5620		11.50	11.43	
			128	5640		11.50	11.43	
			132	5660		11.50	11.47	
	802.11n-HT40	802.11n-HT40	140	5700	MCS0	11.50	11.45	
			144	5720		11.50	11.43	
			102	5510		MCS0	11.50	11.47
			110	5550			11.50	11.43
			118	5590			11.50	11.46
			126	5630			11.50	11.43
	802.11n-VHT40	802.11n-VHT40	134	5670	MCS0	11.50	11.45	
			102	5510		11.50	11.46	
			110	5550		11.50	11.43	
			118	5590		11.50	11.47	
			126	5630		11.50	11.43	
			134	5670		11.50	11.42	
	802.11n-VHT80	802.11n-VHT80	142	5710	MCS0	11.50	11.43	
			106	5530		11.50	11.49	
			122	5610		11.50	11.37	
			138	5690		11.50	11.48	

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Aux Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	13.00	12.92
		157	5785		13.00	12.95
		165	5825		13.00	12.94
	802.11n-HT20	149	5745	MCS0	13.00	12.93
		157	5785		13.00	12.97
		165	5825		13.00	12.92
	802.11n-VHT20	149	5745	MCS0	13.00	12.92
		157	5785		13.00	12.94
		165	5825		13.00	12.92
	802.11n-HT40	151	5755	MCS0	13.00	12.96
		159	5795		13.00	12.92
	802.11n-VHT40	151	5755	MCS0	13.00	12.95
		159	5795		13.00	12.93
	802.11n-VHT80	155	5775	MCS0	13.00	12.98

Tablet mode & Tent mode

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	19.00	18.98
		6	2437		19.00	18.64
		11	2462		19.00	18.58
		12	2467		16.50	16.44
		13	2472		8.50	8.45
	802.11g	1	2412	6Mbps	18.00	17.98
		2	2417		19.00	18.96
		6	2437		19.00	18.93
		11	2462		17.50	17.46
		12	2467		11.50	11.47
	802.11n-HT20	1	2412	MCS0	-2.50	-2.53
		2	2417		18.00	17.93
		6	2437		19.00	18.91
		11	2462		19.00	18.93
		12	2467		17.50	17.46
	802.11n-HT40	13	2472	MCS0	11.50	11.46
		3	2422		18.00	17.98
		4	2427		18.50	18.32
		6	2437		19.00	18.95
		8	2447		17.00	16.97
		9	2452		16.00	15.97
		10	2457		12.50	12.46
		11	2462		-2.50	-2.54

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	17.00	16.98
		40	5200		17.00	16.95
		44	5220		17.00	16.97
		48	5240		17.00	16.96
	802.11n-HT20	36	5180	MCS0	17.00	16.93
		40	5200		17.00	16.97
		44	5220		17.00	16.95
		48	5240		17.00	16.95
	802.11n-VHT20	36	5180	MCS0	17.00	16.93
		40	5200		17.00	16.90
		44	5220		17.00	16.97
		48	5240		17.00	16.94
	802.11n-HT40	38	5190	MCS0	17.00	16.99
		46	5230		17.00	16.98
	802.11n-VHT40	38	5190	MCS0	17.00	16.93
		46	5230		17.00	16.95
802.11n-VHT80	42	5210	MCS0	14.00	13.98	

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	17.00	16.93
		56	5280		17.00	16.91
		60	5300		17.00	16.90
		64	5320		16.00	15.90
	802.11n-HT20	52	5260	MCS0	17.00	16.98
		56	5280		17.00	16.95
		60	5300		17.00	16.98
		64	5320		16.00	15.97
	802.11n-VHT20	52	5260	MCS0	17.00	16.98
		56	5280		17.00	16.97
		60	5300		17.00	16.95
		64	5320		16.00	15.98
	802.11n-HT40	54	5270	MCS0	17.00	16.90
		62	5310		14.50	14.49
	802.11n-VHT40	54	5270	MCS0	17.00	16.98
		62	5310		14.50	14.46
802.11n-VHT80	58	5290	MCS0	12.00	11.98	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	16.50	16.47
		104	5520		17.00	16.98
		116	5580		17.00	16.96
		120	5600		17.00	16.94
		124	5620		17.00	16.97
		128	5640		17.00	16.93
		132	5660		17.00	16.96
		136	5680		17.00	16.97
	140	5700	16.00	15.98		
	802.11n-HT20	100	5500	MCS0	16.50	16.47
		104	5520		17.00	16.98
		116	5580		17.00	16.97
		120	5600		17.00	16.93
		124	5620		17.00	16.97
		128	5640		17.00	16.95
		132	5660		17.00	16.93
		136	5680		17.00	16.93
	140	5700	16.00	15.96		
	802.11n-VHT20	100	5500	MCS0	16.50	16.47
		104	5520		17.00	16.98
		116	5580		17.00	16.95
		120	5600		17.00	16.94
		124	5620		17.00	16.97
		128	5640		17.00	16.94
		132	5660		17.00	16.98
		136	5680		17.00	16.94
	140	5700	16.00	15.92		
	144	5720	17.00	16.89		
	802.11n-HT40	102	5510	MCS0	16.50	16.46
		110	5550		17.00	16.97
		118	5590		17.00	16.71
		126	5630		17.00	16.81
	802.11n-VHT40	134	5670	MCS0	17.00	16.82
		102	5510		16.50	16.47
		110	5550		17.00	16.98
		118	5590		17.00	16.96
		126	5630		17.00	16.94
	802.11n-VHT80	134	5670	MCS0	17.00	16.93
		142	5710		17.00	16.96
		106	5530		13.50	13.42
			122	MCS0	17.00	16.81
			138		5690	17.00

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Main Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	17.00	16.90
		157	5785		17.00	16.89
		165	5825		17.00	16.87
	802.11n-HT20	149	5745	MCS0	17.00	16.93
		157	5785		17.00	16.96
		165	5825		17.00	16.90
	802.11n-VHT20	149	5745	MCS0	17.00	16.93
		157	5785		17.00	16.96
		165	5825		17.00	16.92
	802.11n-HT40	151	5755	MCS0	17.00	16.94
		159	5795		17.00	16.95
	802.11n-VHT40	151	5755	MCS0	17.00	16.91
		159	5795		17.00	16.92
	802.11n-VHT80	155	5775	MCS0	17.00	16.97

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	18.00	17.98
		2	2417		19.00	18.99
		6	2437		19.00	18.87
		10	2457		19.00	18.66
		11	2462		18.50	18.44
		12	2467		16.00	15.98
		13	2472		8.50	8.45
	802.11g	1	2412	6Mbps	18.00	17.98
		2	2417		19.00	18.95
		6	2437		19.00	18.92
		10	2457		17.50	17.46
		11	2462		17.00	16.94
		12	2467		10.50	10.44
	802.11n-HT20	13	2472	MCS0	-2.50	-2.56
		1	2412		18.00	17.95
		2	2417		19.00	18.94
		6	2437		19.00	18.92
		10	2457		17.50	17.46
		11	2462		17.00	16.93
	802.11n-HT40	12	2467	MCS0	10.50	10.46
		13	2472		-2.50	-2.51
		3	2422		17.00	16.99
		4	2427		17.50	17.37
		6	2437		19.00	18.93
		8	2447		16.50	16.44
		9	2452		16.00	15.93
	10	2457	12.50	12.46		
	11	2462	-2.50	-2.57		

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	17.50	17.45
		40	5200		18.00	17.96
		44	5220		18.00	17.92
		48	5240		18.00	17.94
	802.11n-HT20	36	5180	MCS0	17.50	17.45
		40	5200		18.00	17.98
		44	5220		18.00	17.94
		48	5240		18.00	17.97
	802.11n-VHT20	36	5180	MCS0	17.50	17.43
		40	5200		18.00	17.97
		44	5220		18.00	17.93
		48	5240		18.00	17.96
	802.11n-HT40	38	5190	MCS0	18.00	17.94
		46	5230		18.00	17.99
	802.11n-VHT40	38	5190	MCS0	18.00	17.93
		46	5230		18.00	17.90
802.11n-VHT80	42	5210	MCS0	14.00	13.89	

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	18.00	17.94
		56	5280		18.00	17.92
		60	5300		18.00	17.95
		64	5320		16.50	16.42
	802.11n-HT20	52	5260	MCS0	18.00	17.97
		56	5280		18.00	17.95
		60	5300		18.00	17.97
		64	5320		16.50	16.47
	802.11n-VHT20	52	5260	MCS0	18.00	17.98
		56	5280		18.00	17.93
		60	5300		18.00	17.95
		64	5320		16.50	16.45
	802.11n-HT40	54	5270	MCS0	18.00	17.99
		62	5310		15.00	14.97
	802.11n-VHT40	54	5270	MCS0	18.00	17.98
		62	5310		15.00	14.95
802.11n-VHT80	58	5290	MCS0	12.00	11.97	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	17.50	17.45
		104	5520		18.00	17.98
		116	5580		18.00	17.95
		120	5600		18.00	17.96
		124	5620		18.00	17.95
		128	5640		18.00	17.93
		132	5660		18.00	17.94
		136	5680		18.00	17.97
		140	5700		16.00	15.97
	802.11n-HT20	100	5500	MCS0	17.50	17.48
		104	5520		18.00	17.98
		116	5580		18.00	17.92
		120	5600		18.00	17.94
		124	5620		18.00	17.95
		128	5640		18.00	17.93
		132	5660		18.00	17.95
		136	5680		18.00	17.91
	802.11n-VHT20	100	5500	MCS0	17.50	17.40
		104	5520		18.00	17.94
		116	5580		18.00	17.94
		120	5600		18.00	17.96
		124	5620		18.00	17.93
		128	5640		18.00	17.91
		132	5660		18.00	17.96
		136	5680		18.00	17.93
		140	5700		16.00	15.98
	802.11n-HT40	102	5510	MCS0	16.50	16.49
		110	5550		18.00	17.98
		118	5590		18.00	17.71
		126	5630		18.00	17.81
		134	5670		17.00	16.87
	802.11n-VHT40	102	5510	MCS0	16.50	16.45
		110	5550		18.00	17.90
		118	5590		18.00	17.92
		126	5630		18.00	17.95
		134	5670		17.00	16.98
	802.11n-VHT80	106	5530	MCS0	14.00	13.93
		122	5610		18.00	17.92
		138	5690		18.00	17.99

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Aux Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	18.00	17.86
		157	5785		18.00	17.87
		165	5825		18.00	17.88
	802.11n-HT20	149	5745	MCS0	18.00	17.93
		157	5785		18.00	17.92
		165	5825		18.00	17.94
	802.11n-VHT20	149	5745	MCS0	18.00	17.92
		157	5785		18.00	17.89
		165	5825		18.00	17.90
	802.11n-HT40	151	5755	MCS0	18.00	17.93
		159	5795		18.00	17.95
	802.11n-VHT40	151	5755	MCS0	18.00	17.91
		159	5795		18.00	17.93
802.11n-VHT80	155	5775	MCS0	17.50	17.45	

Stand mode / laptop mode

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	20.00	19.94
		6	2437		20.00	19.63
		11	2462		20.00	19.57
		12	2467		16.50	16.45
		13	2472		8.50	8.43
	802.11g	1	2412	6Mbps	18.00	17.94
		2	2417		20.00	19.95
		6	2437		20.00	19.66
		11	2462		17.50	17.49
		12	2467		11.50	11.43
		13	2472		-2.50	-2.57
	802.11n-HT20	1	2412	MCS0	18.00	17.98
		2	2417		20.00	19.89
		6	2437		20.00	19.93
		11	2462		17.50	17.43
		12	2467		11.50	11.46
		13	2472		-2.50	-2.58
	802.11n-HT40	3	2422	MCS0	18.00	17.88
		4	2427		18.50	18.45
		6	2437		19.00	18.93
		8	2447		17.00	16.94
		9	2452		16.00	15.94
		10	2457		12.50	12.46
		11	2462		-2.50	-2.52

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	18.00	17.99
		40	5200		20.00	19.99
		44	5220		20.00	19.97
		48	5240		19.50	19.46
	802.11n-HT20	36	5180	MCS0	18.00	17.98
		40	5200		20.00	19.94
		44	5220		20.00	19.93
		48	5240		19.50	19.45
	802.11n-VHT20	36	5180	MCS0	18.00	17.98
		40	5200		20.00	19.93
		44	5220		20.00	19.94
		48	5240		19.50	19.46
	802.11n-HT40	38	5190	MCS0	18.00	17.88
		46	5230		20.00	19.98
	802.11n-VHT40	38	5190	MCS0	18.00	17.98
		46	5230		20.00	19.94
802.11n-VHT80	42	5210	MCS0	14.00	13.95	

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	20.00	18.10
		56	5280		20.00	19.91
		60	5300		20.00	19.92
		64	5320		16.00	15.99
	802.11n-HT20	52	5260	MCS0	20.00	19.98
		56	5280		20.00	19.94
		60	5300		20.00	19.97
		64	5320		16.00	15.98
	802.11n-VHT20	52	5260	MCS0	20.00	19.94
		56	5280		20.00	19.97
		60	5300		20.00	19.98
		64	5320		16.00	15.94
	802.11n-HT40	54	5270	MCS0	20.00	19.96
		62	5310		14.50	14.39
	802.11n-VHT40	54	5270	MCS0	20.00	19.93
		62	5310		14.50	14.47
802.11n-VHT80	58	5290	MCS0	12.00	11.79	

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	16.50	16.45
		104	5520		20.00	19.97
		116	5580		20.00	19.95
		120	5600		20.00	19.94
		124	5620		20.00	19.93
		128	5640		20.00	19.95
		132	5660		20.00	19.98
		136	5680		20.00	19.92
		140	5700		16.00	15.98
	802.11n-HT20	100	5500	MCS0	16.50	16.44
		104	5520		20.00	19.93
		116	5580		20.00	19.91
		120	5600		20.00	19.94
		124	5620		20.00	19.96
		128	5640		20.00	19.92
		132	5660		20.00	19.93
		136	5680		20.00	19.92
	802.11n-VHT20	100	5500	MCS0	16.50	16.47
		104	5520		20.00	19.97
		116	5580		20.00	19.93
		120	5600		20.00	19.96
		124	5620		20.00	19.93
		128	5640		20.00	19.91
		132	5660		20.00	19.98
		136	5680		20.00	19.96
		140	5700		16.00	15.94
	802.11n-HT40	102	5510	MCS0	16.50	16.44
		110	5550		20.00	19.99
		118	5590		20.00	19.80
		126	5630		20.00	19.95
		134	5670		17.00	16.92
	802.11n-VHT40	102	5510	MCS0	16.50	16.41
		110	5550		20.00	19.95
		118	5590		20.00	19.85
		126	5630		20.00	19.91
		134	5670		17.00	16.93
		142	5710		20.00	19.94
	802.11n-VHT80	106	5530	MCS0	13.50	13.35
		122	5610		17.50	17.31
		138	5690		20.00	19.93

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Main Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	20.00	19.98
		157	5785		20.00	19.96
		165	5825		20.00	19.93
	802.11n-HT20	149	5745	MCS0	20.00	19.94
		157	5785		20.00	19.91
		165	5825		20.00	19.96
	802.11n-VHT20	149	5745	MCS0	20.00	19.93
		157	5785		20.00	19.97
		165	5825		20.00	19.90
	802.11n-HT40	151	5755	MCS0	20.00	19.96
		159	5795		20.00	19.62
	802.11n-VHT40	151	5755	MCS0	20.00	19.95
159		5795	20.00		19.93	
802.11n-VHT80	155	5775	MCS0	17.50	17.45	

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	18.00	17.98
		2	2417		20.00	19.92
		6	2437		20.00	19.73
		10	2457		20.00	19.53
		11	2462		18.50	18.44
		12	2467		16.00	15.98
		13	2472		8.50	8.45
	802.11g	1	2412	6Mbps	18.00	17.96
		2	2417		20.00	19.88
		6	2437		20.00	19.74
		10	2457		17.50	17.48
		11	2462		17.00	16.98
		12	2467		10.50	10.45
		13	2472		-2.50	-2.57
	802.11n-HT20	1	2412	MCS0	18.00	17.98
		2	2417		20.00	19.88
		6	2437		20.00	19.91
		10	2457		17.50	17.45
		11	2462		17.00	16.98
		12	2467		10.50	10.46
		13	2472		-2.50	-2.56
	802.11n-HT40	3	2422	MCS0	17.00	16.98
		4	2427		17.50	17.45
		6	2437		19.00	18.96
		8	2447		16.50	16.46
		9	2452		16.00	15.98
		10	2457		12.50	12.45
		11	2462		-2.50	-2.54

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	17.50	17.47
		40	5200		19.50	19.48
		44	5220		20.00	19.95
		48	5240		19.50	19.45
	802.11n-HT20	36	5180	MCS0	17.50	17.43
		40	5200		19.50	19.46
		44	5220		20.00	19.89
		48	5240		19.50	19.46
	802.11n-VHT20	36	5180	MCS0	17.50	17.43
		40	5200		19.50	19.43
		44	5220		20.00	19.98
		48	5240		19.50	19.46
	802.11n-HT40	38	5190	MCS0	18.00	17.94
		46	5230		20.00	19.91
	802.11n-VHT40	38	5190	MCS0	18.00	17.90
		46	5230		20.00	19.88
802.11n-VHT80	42	5210	MCS0	14.00	13.98	

Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	20.00	19.92
		56	5280		20.00	19.91
		60	5300		20.00	19.90
		64	5320		16.50	16.42
	802.11n-HT20	52	5260	MCS0	20.00	19.89
		56	5280		20.00	19.94
		60	5300		20.00	19.95
		64	5320		16.50	16.43
	802.11n-VHT20	52	5260	MCS0	20.00	19.97
		56	5280		20.00	19.92
		60	5300		20.00	19.88
		64	5320		16.50	16.43
	802.11n-HT40	54	5270	MCS0	20.00	19.86
		62	5310		15.00	14.90
	802.11n-VHT40	54	5270	MCS0	20.00	19.88
		62	5310		15.00	14.98
802.11n-VHT80	58	5290	MCS0	12.00	11.87	

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Aux Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	17.50	17.46
		104	5520		20.00	19.94
		116	5580		20.00	19.93
		120	5600		20.00	19.91
		124	5620		20.00	19.97
		128	5640		20.00	19.92
		132	5660		20.00	19.93
		136	5680		20.00	19.91
		140	5700		16.00	15.98
	802.11n-HT20	100	5500	MCS0	17.50	17.43
		104	5520		20.00	19.95
		116	5580		20.00	19.91
		120	5600		20.00	19.93
		124	5620		20.00	19.97
		128	5640		20.00	19.92
		132	5660		20.00	19.91
		136	5680		20.00	19.93
	802.11n-VHT20	100	5500	MCS0	17.50	17.47
		104	5520		20.00	19.91
		116	5580		20.00	19.93
		120	5600		20.00	19.95
		124	5620		20.00	19.91
		128	5640		20.00	19.96
		132	5660		20.00	19.92
		136	5680		20.00	19.97
	802.11n-HT40	102	5510	MCS0	16.50	16.48
		110	5550		20.00	19.99
		118	5590		20.00	19.40
		126	5630		20.00	19.66
		134	5670		17.00	16.89
	802.11n-VHT40	102	5510	MCS0	16.50	16.44
		110	5550		20.00	19.94
		118	5590		20.00	19.43
		126	5630		20.00	19.61
		134	5670		17.00	16.92
		142	5710		20.00	19.92
	802.11n-VHT80	106	5530	MCS0	14.00	13.69
		122	5610		18.50	18.42
		138	5690		20.00	19.93

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Aux Antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	20.00	19.93
		157	5785		20.00	19.96
		165	5825		20.00	19.92
	802.11n-HT20	149	5745	MCS0	20.00	19.95
		157	5785		20.00	19.93
		165	5825		20.00	19.92
	802.11n-VHT20	149	5745	MCS0	20.00	19.97
		157	5785		20.00	19.94
		165	5825		20.00	19.92
	802.11n-HT40	151	5755	MCS0	20.00	19.94
		159	5795		20.00	19.92
	802.11n-VHT40	151	5755	MCS0	20.00	19.97
159		5795	20.00		19.93	
802.11n-VHT80	155	5775	MCS0	17.50	17.45	

Bluetooth conducted power table

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)			Max. Rated Avg. Power + Max. Tolerance (dBm)		
			1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps
BR/EDR	CH 00	2402	9.86	6.78	5.95	11.50	8.00	7.00
	CH 39	2441	9.91	6.97	6.12			
	CH 78	2480	9.54	6.57	5.78			

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)
			GFSK	
LE	CH 00	2402	2.51	7
	CH 19	2440	2.71	
	CH 39	2480	2.15	

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1.4 Test Environment

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

1.5 Operation Description

Use chipset specific software to control the EUT, and makes it transmit in maximum power. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

EUT was tested as below and confirmed by KDB inquiry

Flat mode

Back/top/right/left sides_0mm with power reduction

Tablet mode

Back/top/right/left sides_0mm with power reduction

Tent mode

Tent_0mm with power reduction

Stand mode

Stand_0mm with full power

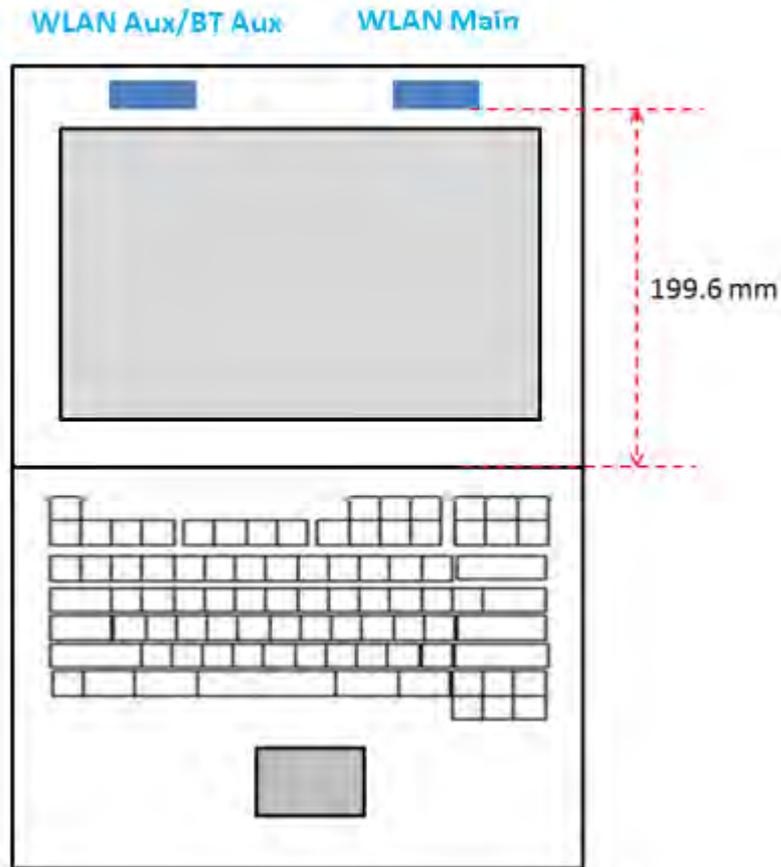
Laptop mode

SAR measurement for laptop mode with full power is not required based on KDB447498D01 test exclusion calculation.

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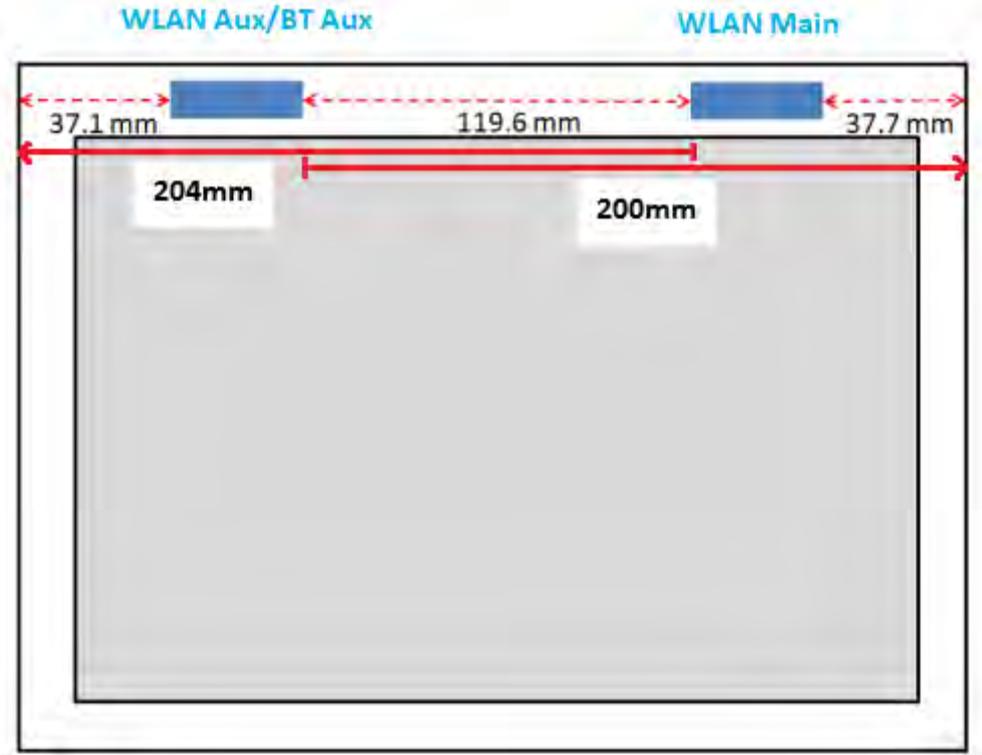


Antenna location (laptop mode)

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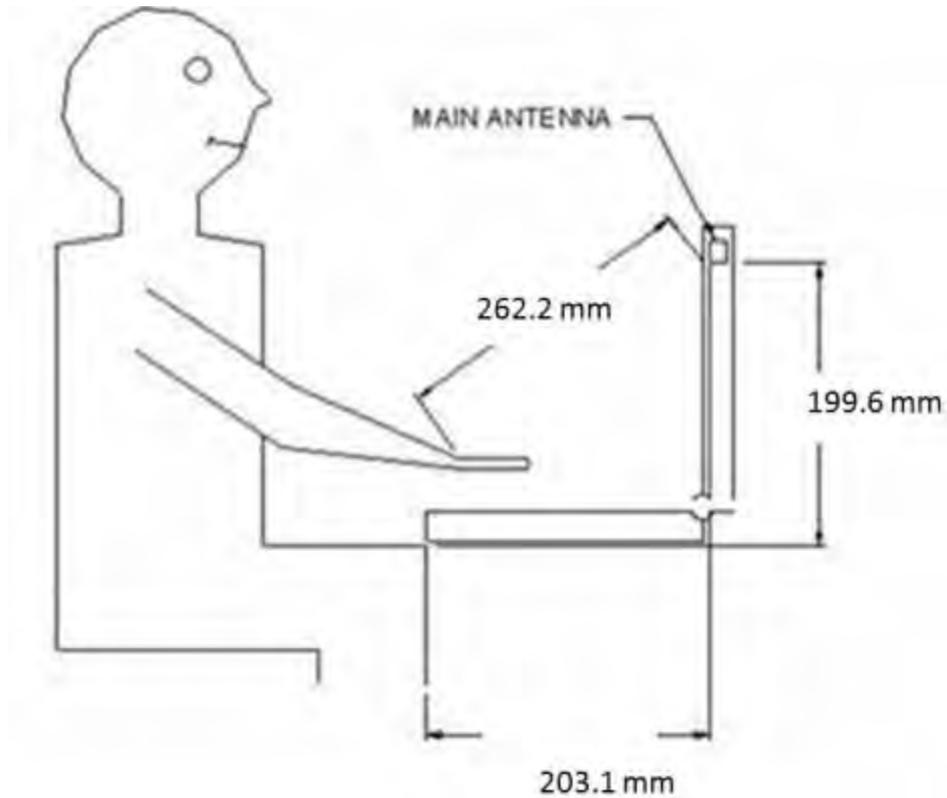


**Antenna location
(tablet mode, front view)**

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Antenna location (laptop mode)

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Note:

802.11b DSSS SAR Test Requirements:

1. 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.
2. 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:

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

Initial Test Configuration:

4. 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.
5. 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.
6. For flat mode Main & Aux, 5.2 ac(80) / 5.3 ac(80) / 5.6 ac(80) / 5.8 ac(80) is chosen to be the initial test configurations.
7. For tablet/tent modes Main, 5.2 n(40) / 5.3 a/n(40) / 5.6 n(40)/ac(80) / 5.8 ac(80) is chosen to be the initial test configurations.
8. For tablet/tent modes Aux, 5.2 n(40) / 5.3 a/n(40) / 5.6 n(40)/ac(80) / 5.8 n(40) is chosen to be the initial test configurations.
9. For stand mode Main & Aux, 5.2 a/n(40) / 5.3 a/n(40) / 5.6 n(40)/ac(80) / 5.8 n(40) is chosen to be the initial test configurations.

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10. For all the modes tested, 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.
11. BT and WLAN Aux use the same antenna path, but they can't transmit at the same time.
12. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.
13. According to KDB865664 D01, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~10% from the 1-g SAR limit)

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14. Based on KDB447498D01, SAR test exclusion is evaluated as below,

Laptop mode / stand mode		WLAN Main 2.45GHz	WLAN Main 5GHz	Laptop mode / stand mode		WLAN Aux 2.45GHz	WLAN Aux 5GHz	BT Aux
Max. tune-up power(dBm)		20	20	Max. tune-up power(dBm)		20	20	11.5
Max. tune-up power(mW)		100.00	100.00	Max. tune-up power(mW)		100.00	100.00	14.13
Bottom side	Test separation distance (mm)	199.6	199.6	Top side / backside	Test separation distance	199.6	199.6	199.6
	test exclusion threshold (mW)	1499.138	1500.827		test exclusion threshold (mW)	1499.138	1500.827	1496.445
	Require SAR testing?	NO	NO		Require SAR testing?	NO	NO	NO
Flat mode		WLAN Main 2.45GHz	WLAN Main 5GHz	Laptop mode / stand mode		WLAN Aux 2.45GHz	WLAN Aux 5GHz	BT Aux
Max. tune-up power(dBm)		17	11.5	Max. tune-up power(dBm)		17.5	13	11.5
Max. tune-up power(mW)		50.12	14.13	Max. tune-up power(mW)		56.23	19.95	14.13
backside / top side	Test separation distance (mm)	5	5	backside / top side	Test separation distance (mm)	5	5	5
	test exclusion calculation	15.728	6.818		test exclusion calculation	17.647	9.631	4.449
	Require SAR testing?	YES	YES		Require SAR testing?	YES	YES	YES
right side	Test separation distance (mm)	37.7	37.7	right side	Test separation distance (mm)	200	200	200
	test exclusion calculation	2.086	0.904		Require SAR testing?	NO	NO	NO
	Require SAR testing?	NO	NO		Require SAR testing?	NO	NO	NO
left side	Test separation distance (mm)	204	204	left side	Test separation distance (mm)	37.1	37.1	37.1
	Require SAR testing?	NO	NO		test exclusion calculation	2.378	0.844	0.600
bottom side	Test separation distance (mm)	> 200	> 200	bottom side	Test separation distance (mm)	> 200	> 200	> 200
	Require SAR testing?	NO	NO		Require SAR testing?	NO	NO	NO
Tablet mode / tent mode		WLAN Main 2.45GHz	WLAN Main 5GHz	Tablet mode / tent mode		WLAN Aux 2.45GHz	WLAN Aux 5GHz	BT Aux
Max. tune-up power(dBm)		19	17	Max. tune-up power(dBm)		19	18	11.5
Max. tune-up power(mW)		79.43	50.12	Max. tune-up power(mW)		79.43	63.10	14.13
backside / top side / tent	Test separation distance (mm)	5	5	backside / top side / tent	Test separation distance (mm)	5	5	5
	test exclusion calculation	24.927	24.192		test exclusion calculation	24.927	30.456	4.449
	Require SAR testing?	YES	YES		Require SAR testing?	YES	YES	YES
right side	Test separation distance (mm)	37.7	37.7	right side	Test separation distance (mm)	200	200	200
	test exclusion calculation	2.086	0.904		Require SAR testing?	NO	NO	NO
	Require SAR testing?	NO	NO		Require SAR testing?	NO	NO	NO
left side	Test separation distance (mm)	204	204	left side	Test separation distance (mm)	37.1	37.1	37.1
	Require SAR testing?	NO	NO		test exclusion calculation	2.378	0.844	0.600
Bottom side	Test separation distance (mm)	199.6	199.6	Bottom side	Test separation distance (mm)	199.6	199.6	199.6
	test exclusion threshold (mW)	1498.493	1498.419		test exclusion threshold (mW)	1498.493	1499.046	1496.445
	Require SAR testing?	NO	NO		Require SAR testing?	NO	NO	NO

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1.6 triggering verification for power reduction

The device is a convertible laptop computer with a lid open up to x360 degree. Device modes are defined for different use scenarios. For those device modes under RF exposure concern, the radio power reduction will be triggered. There are the sensors within this device, and the sensors can calculate the angle between the screen and the keyboard base, and then reduce the maximum power based on each device mode accordingly.

Also, the G-sensor will calculate the hinge angle for power reduction and its operation is no related the triggering distance and coverage.

When the device is operated at the laptop/stand mode, the power reduction will not be triggered, but when it is operating at flat/tent/tablet modes, the power reduction will be triggered. Besides, the power reduction is a single fixed level of power reduction.

Also, the power reduction will be triggered on WLAN Main & Aux, and the sensor can tell if the device is in stand or tent mode even though the two modes have the same hinge angles between the screen and keyboard base. For the triggering verification, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively, versus hinge angle, as similar with the procedures in KDB616217D04.

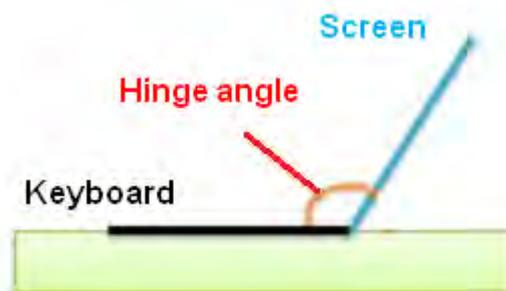


Illustration of hinge angle

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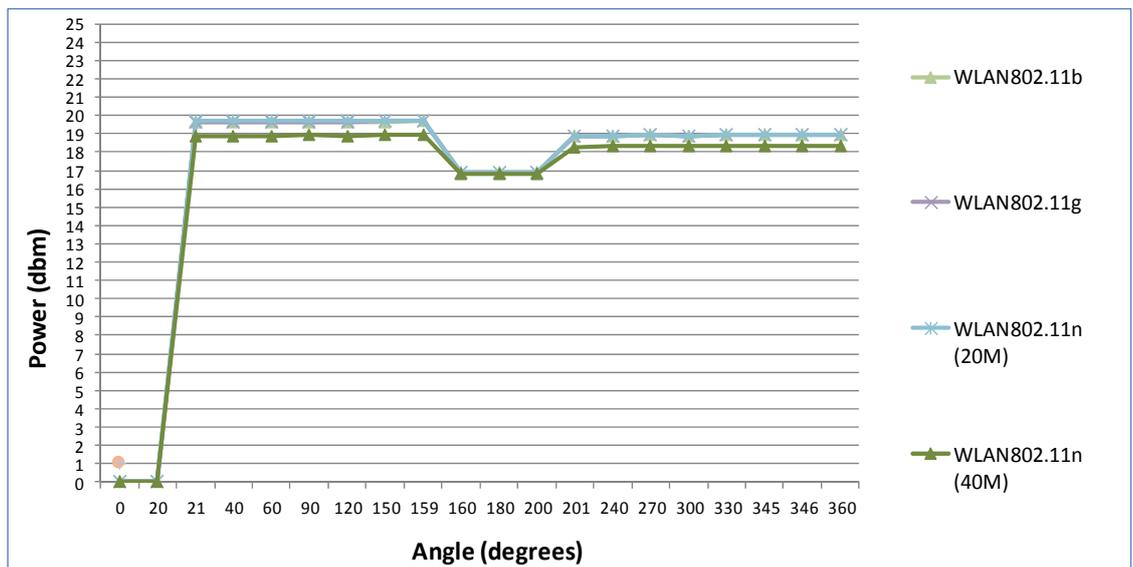
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1.6.1 Results and conclusion

The measured output power versus hinge angle is tabulated in the following table, and the triggering verification complies with the device mode / power level declared by the manufacturer.

All modes except for stand mode

2.4G Main

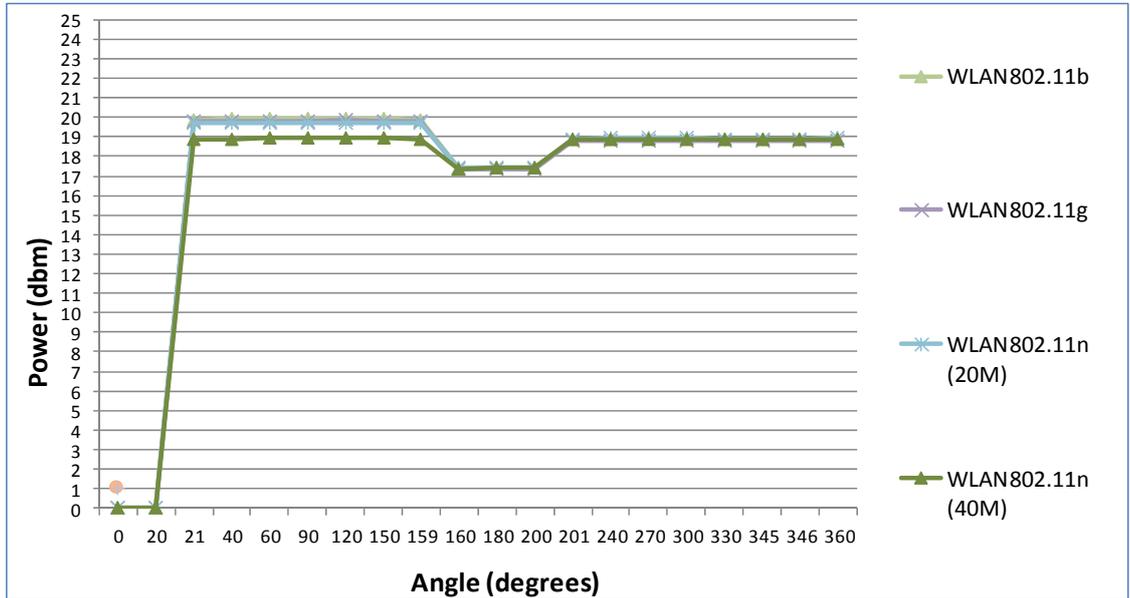


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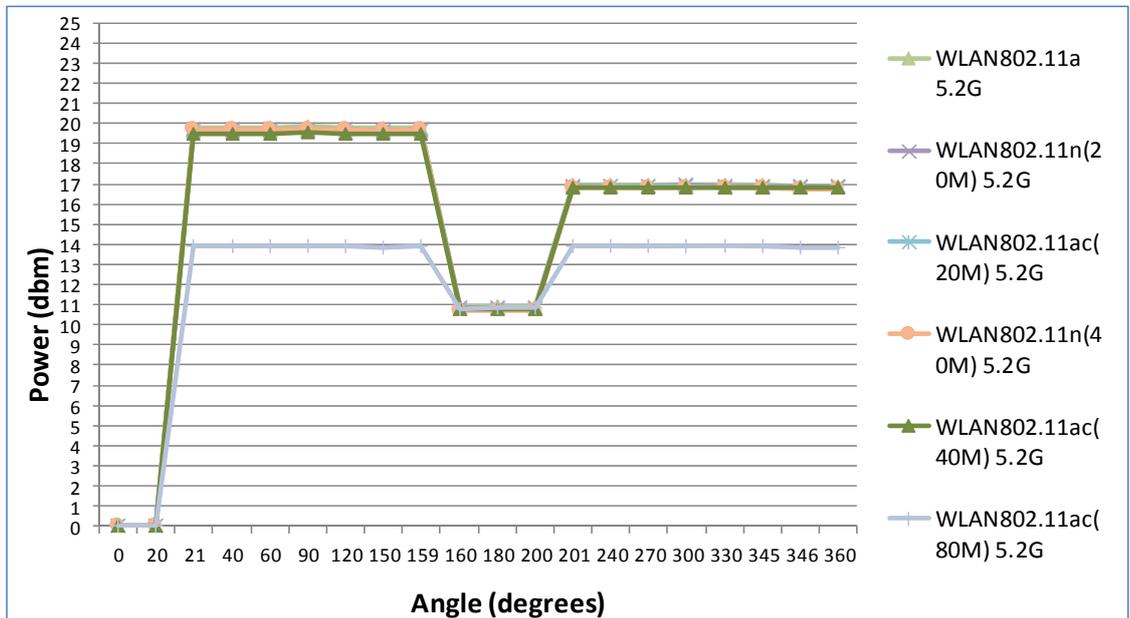
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2.4G Aux



5.2G Main

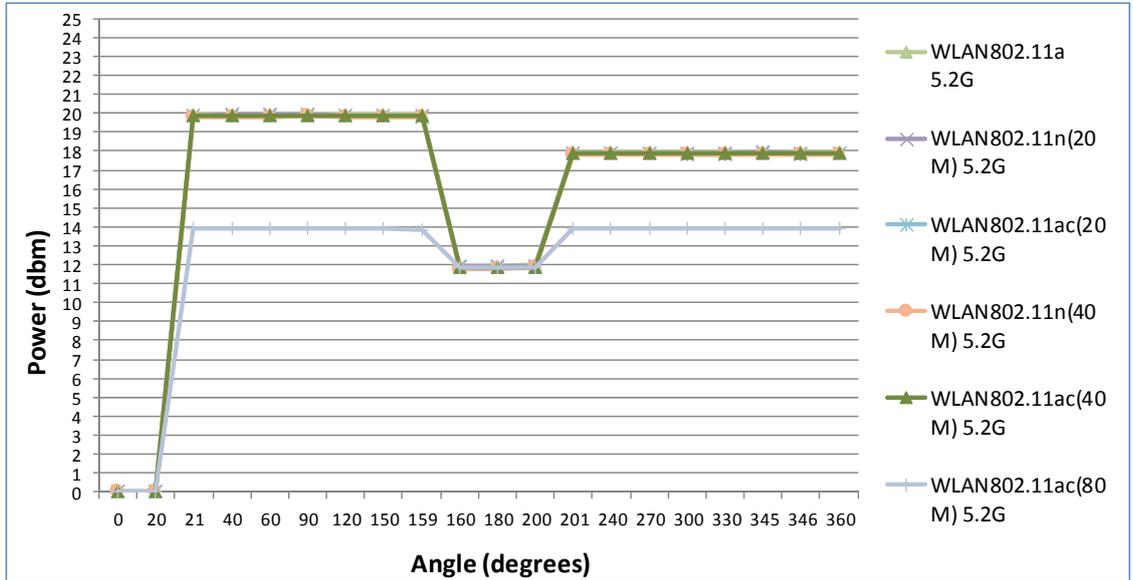


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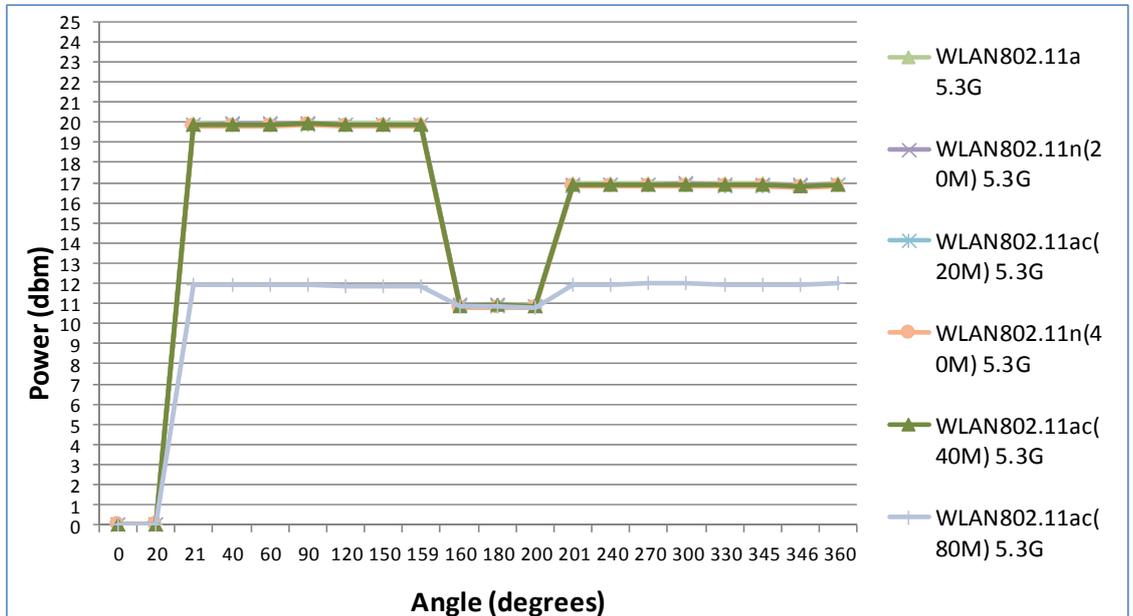
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5.2G Aux



5.3G Main

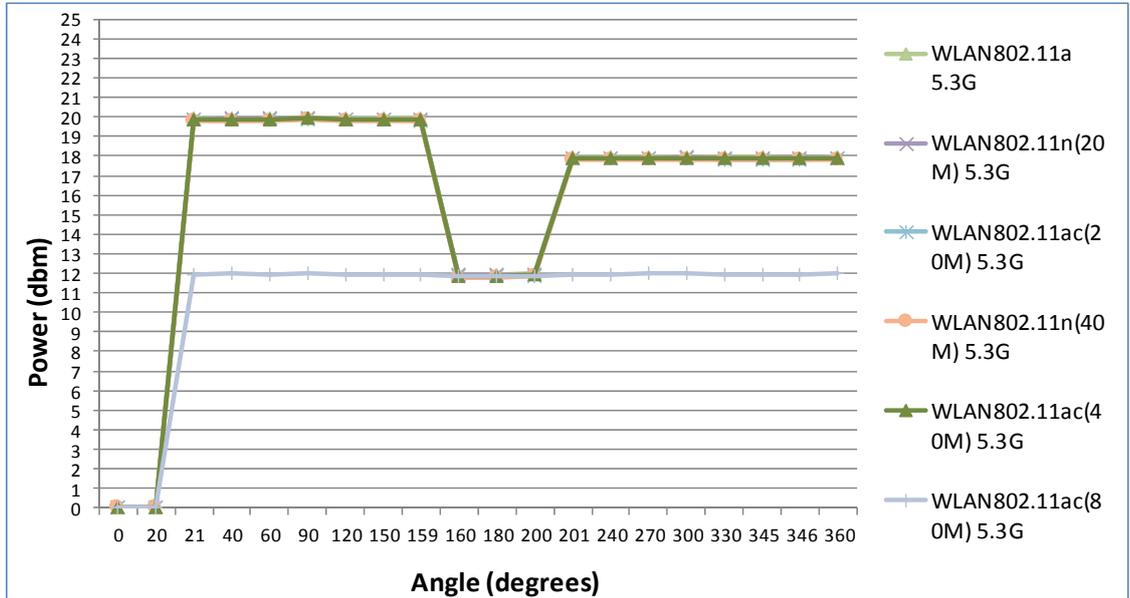


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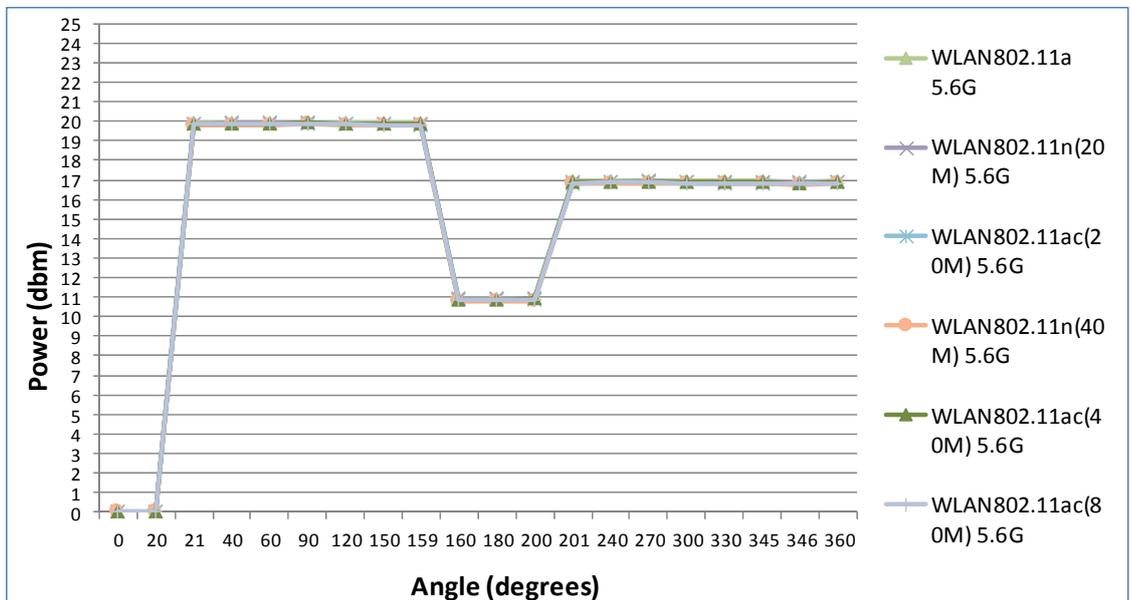
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5.3G Aux



5.6G Main

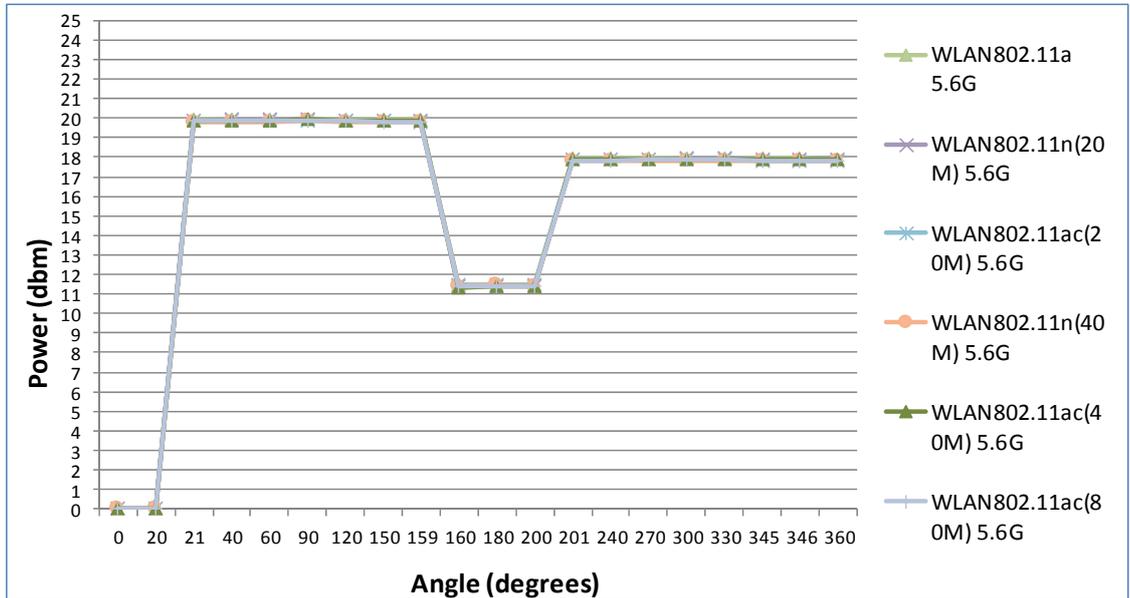


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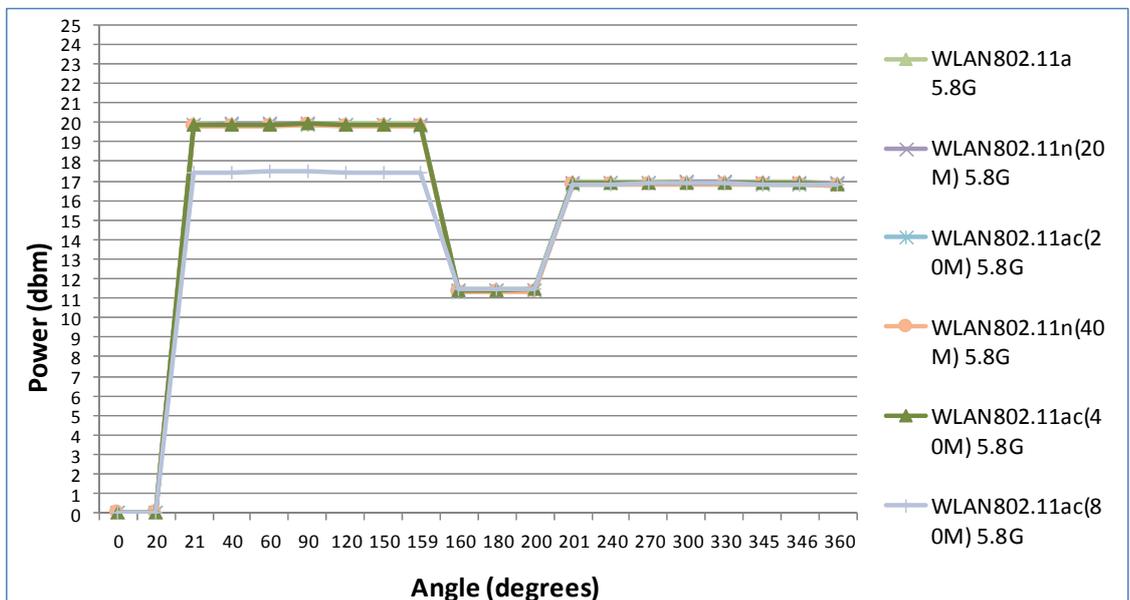
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5.6G Aux



5.8G Main

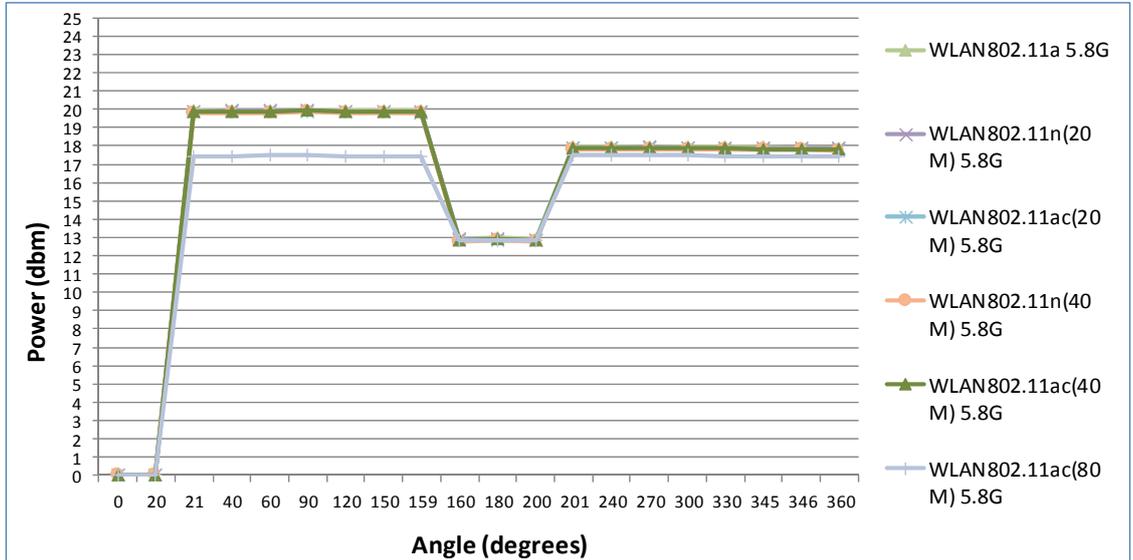


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5.8G Aux



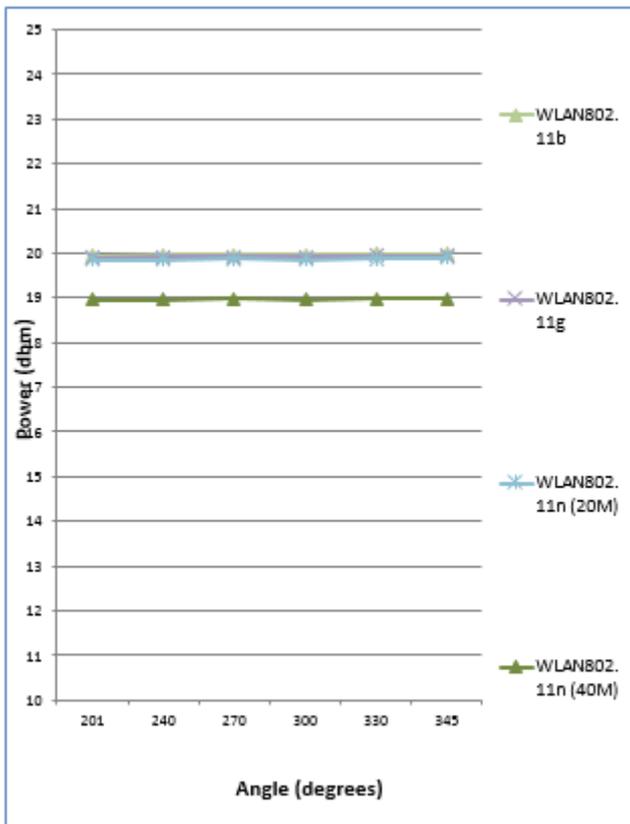
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Stand mode

2.4G Main

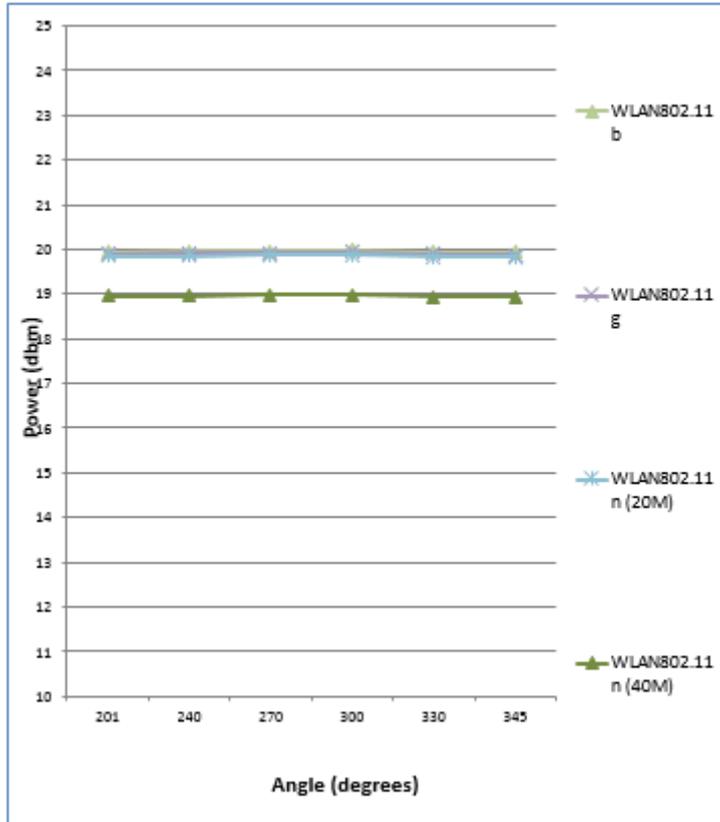


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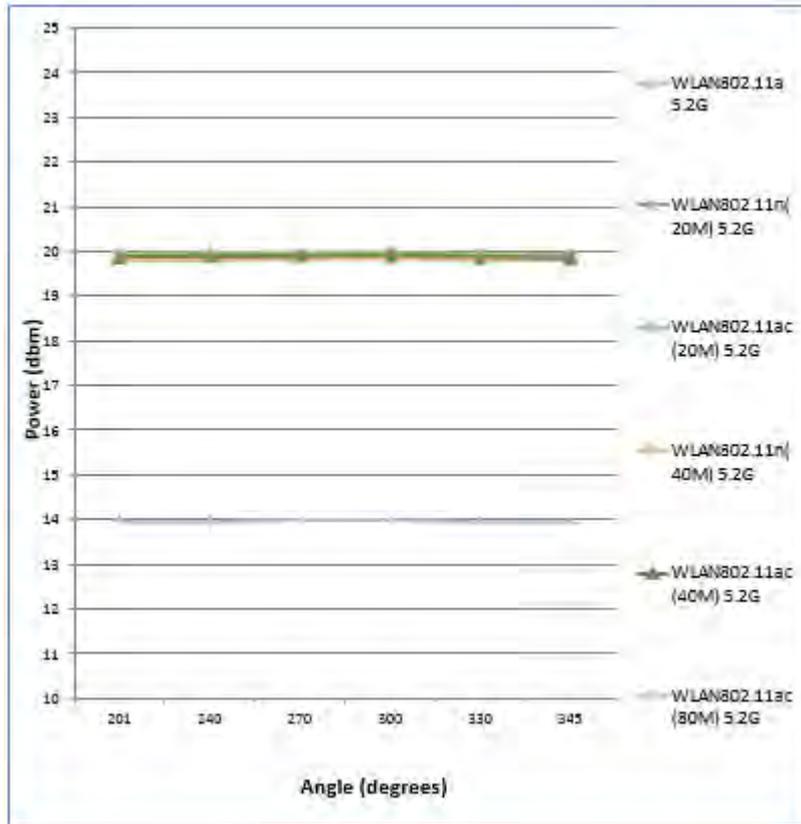


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5.2G Main

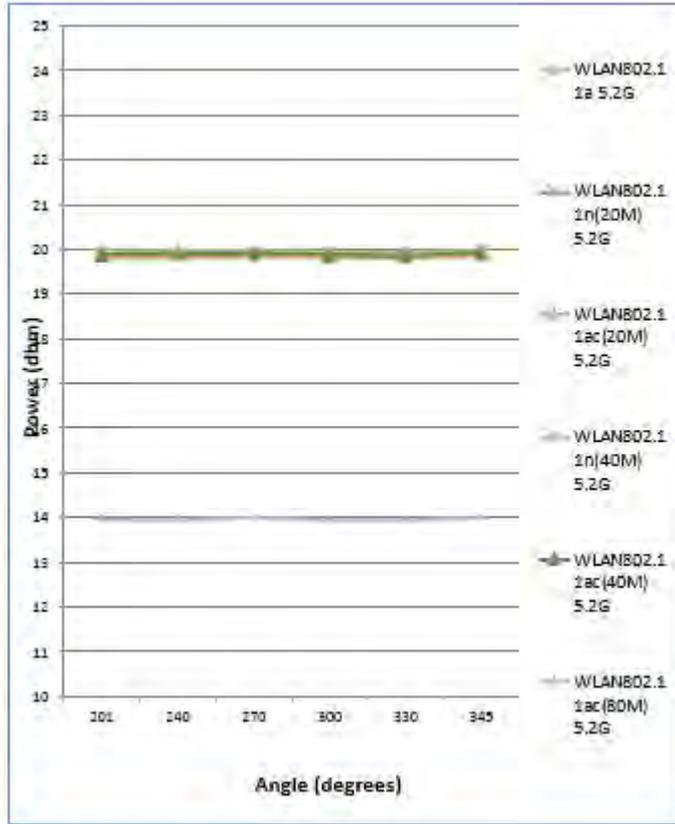


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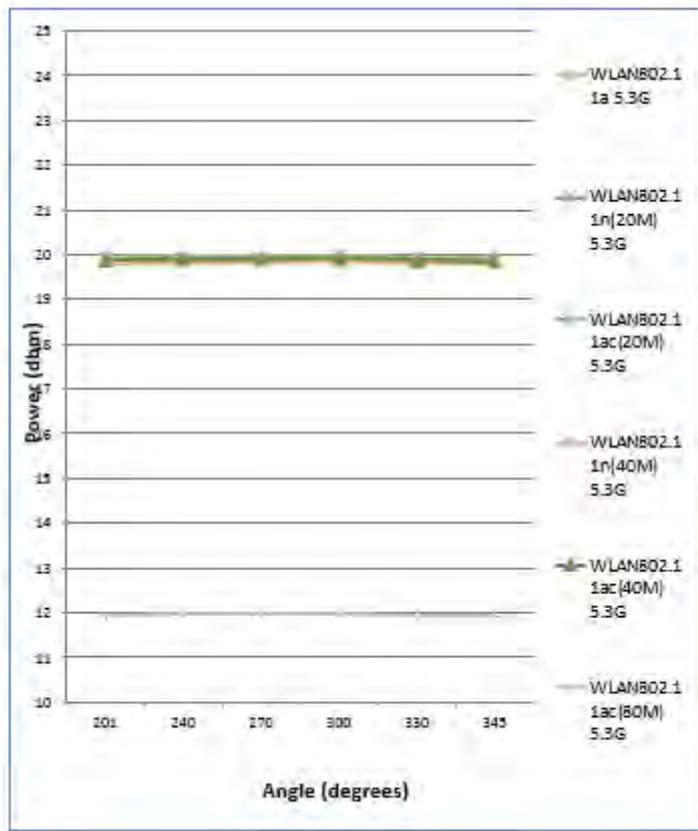


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5.3G Main

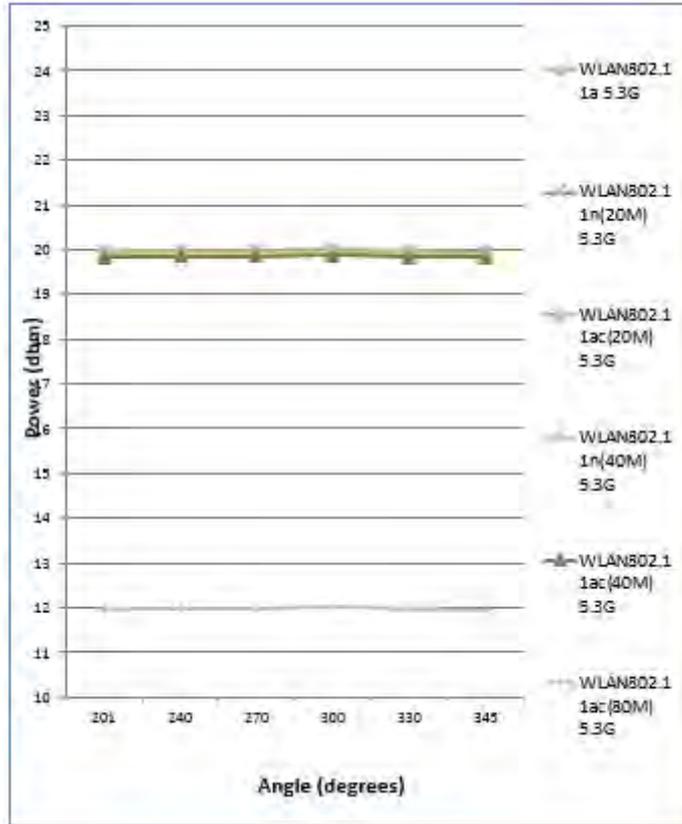


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5.3G Aux

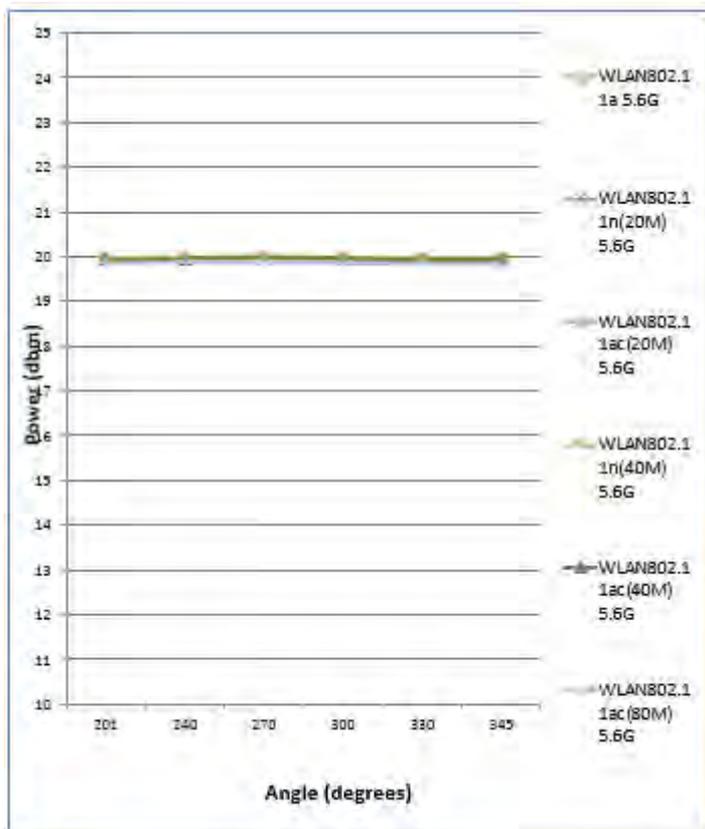


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5.6G Main

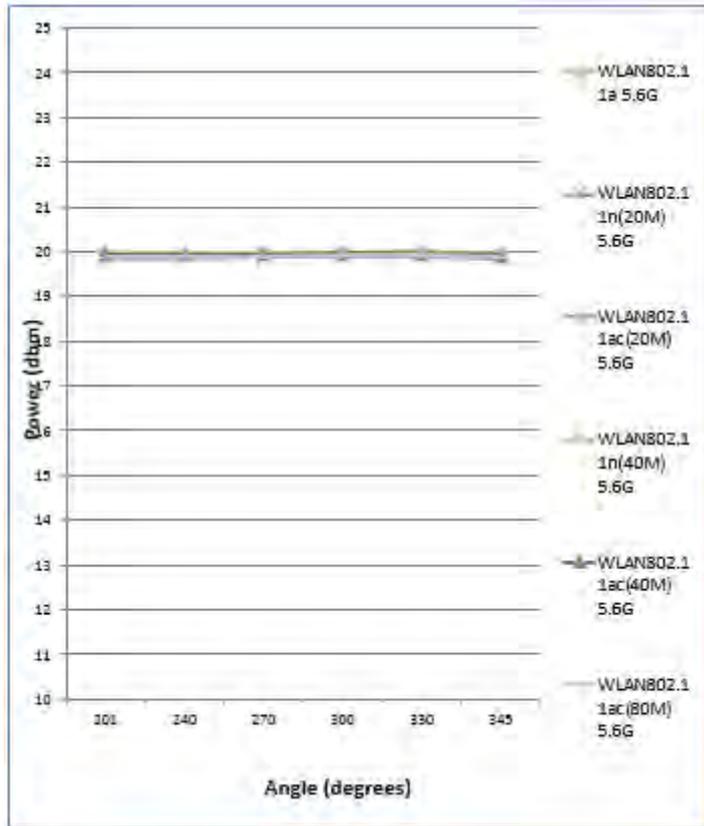


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5.6G Aux

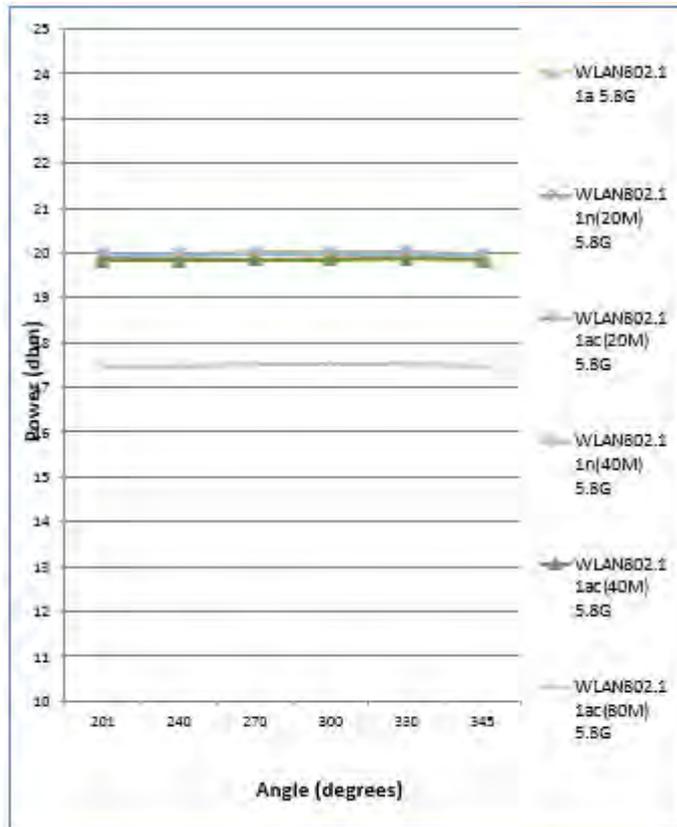


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5.8G Main

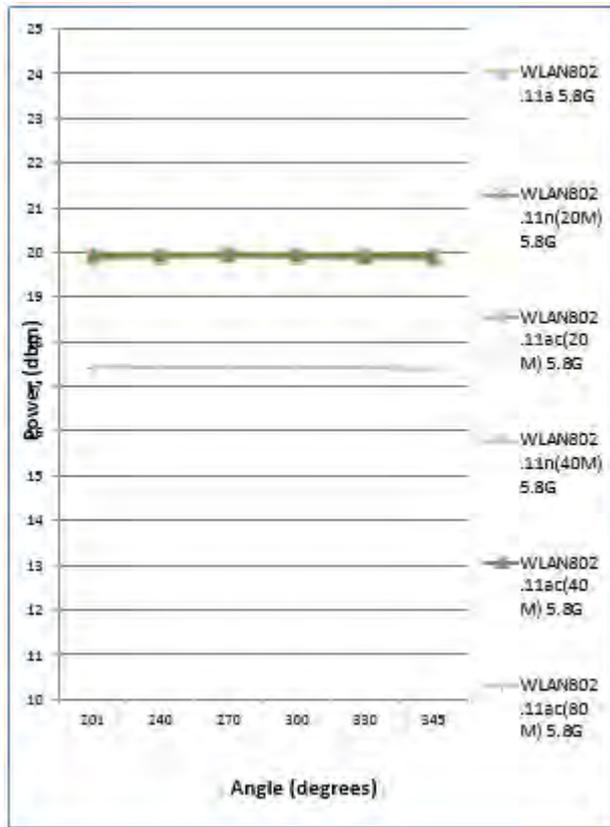


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5.8G Aux



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1.7 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ 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.

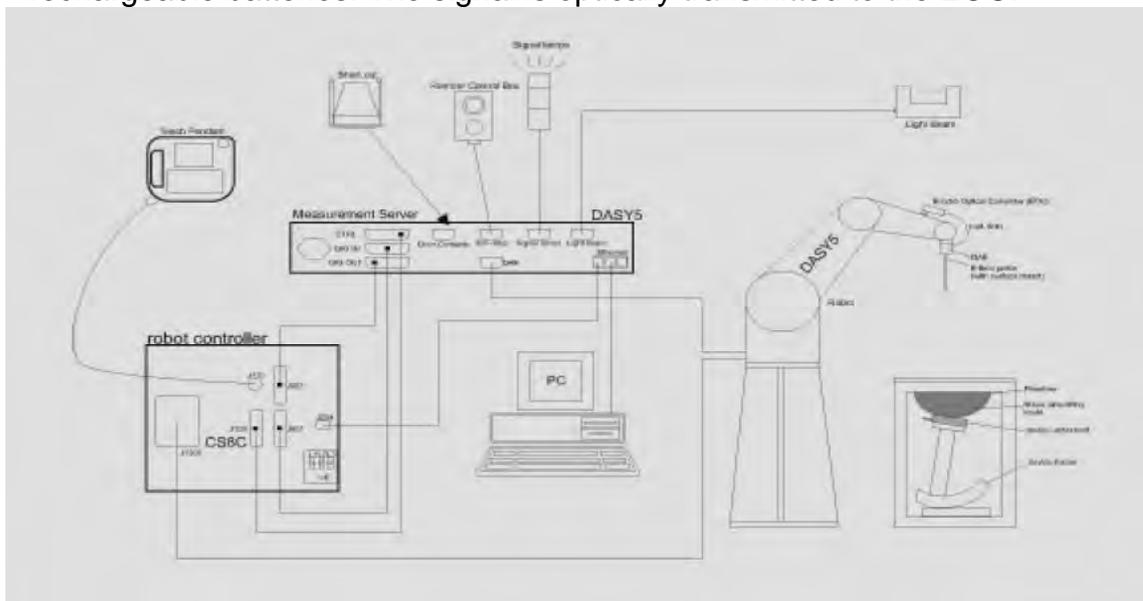


Fig. a The block diagram of SAR system

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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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1.8 System Components

EX3DV4 E-Field Probe

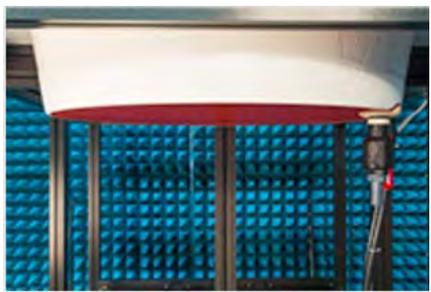
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5200/5300/5600/5800 MHz Additional CF for other liquids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

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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

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	 <p style="text-align: center;">Device Holder</p>
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1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 2450/5200/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was $\geq 15 \text{ cm} \pm 5 \text{ mm}$ (frequency $\leq 3 \text{ GHz}$) or $\geq 10 \text{ cm} \pm 5 \text{ mm}$ (frequency $> 3 \text{ GHz}$) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

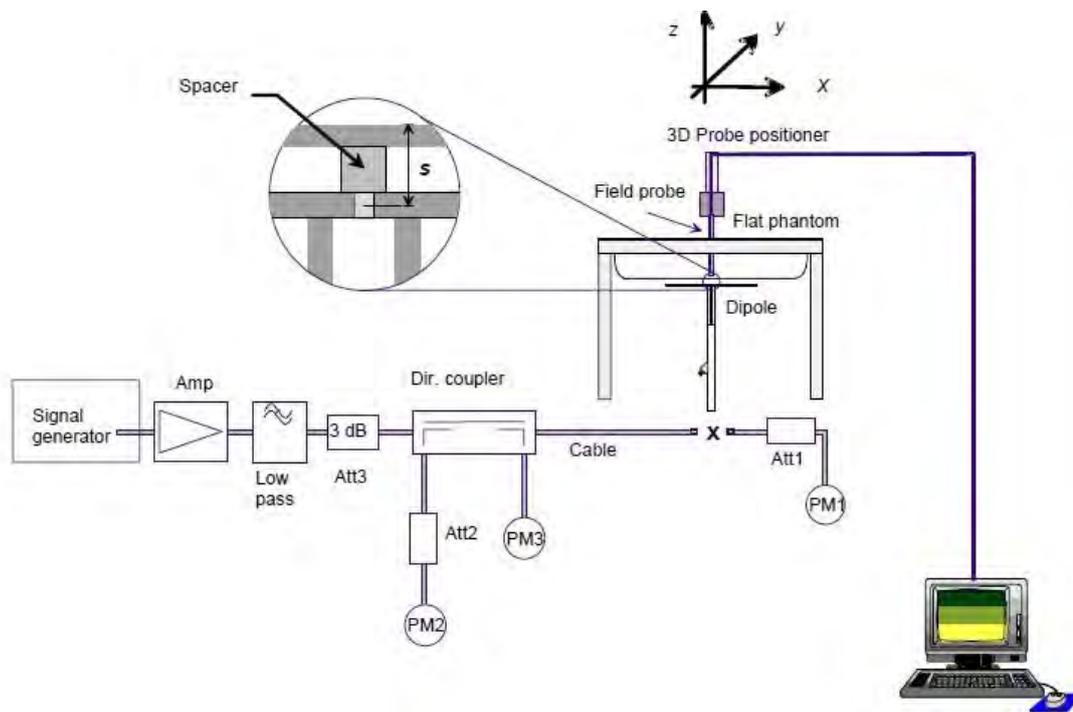


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D2450V2	727	2450	Body	50.6	12.9	51.6	1.98%	Nov. 06, 2017
D5GHzV2	1023	5200	Body	72.8	7.46	74.6	2.47%	Nov. 07, 2017
		5300	Body	76.1	7.39	73.9	-2.89%	Nov. 08, 2017
		5600	Body	79.6	8.13	81.3	2.14%	Nov. 09, 2017
		5800	Body	75.9	7.56	75.6	-0.40%	Nov. 10, 2017

Table 1. Results of system validation

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1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this body-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer (30 KHz-6000 MHz).

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

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	
Body	Nov. 6, 2017	2402	52.764	1.904	53.122	1.862	-0.68%	2.21%	
		2412	52.751	1.914	53.142	1.847	-0.74%	3.48%	
		2417	52.744	1.918	53.065	1.871	-0.61%	2.47%	
		2422	52.736	1.910	53.154	1.870	-0.79%	2.11%	
		2427	52.731	1.928	53.043	1.884	-0.59%	2.28%	
		2437	52.717	1.938	52.926	1.883	-0.40%	2.82%	
		2441	52.711	1.937	52.973	1.887	-0.50%	2.59%	
		2447	52.704	1.947	53.044	1.896	-0.65%	2.63%	
		2450	52.700	1.950	52.943	1.916	-0.46%	1.74%	
		2457	52.691	1.960	52.902	1.925	-0.40%	1.78%	
		2462	52.684	1.961	52.831	1.918	-0.28%	2.22%	
	2480	52.660	1.979	52.783	1.956	-0.23%	1.15%		
	Nov. 7, 2017	5180	49.041	5.276	50.221	5.094	-2.41%	3.45%	
		5190	49.028	5.288	50.200	5.112	-2.39%	3.32%	
		5200	49.014	5.299	50.178	5.124	-2.37%	3.31%	
		5210	49.001	5.311	50.146	5.140	-2.34%	3.22%	
		5220	48.987	5.323	50.117	5.156	-2.31%	3.13%	
		5230	48.974	5.334	50.088	5.170	-2.28%	3.08%	
		5240	48.960	5.346	50.050	5.183	-2.23%	3.05%	
	Nov. 8, 2017	5260	48.933	5.369	49.971	5.217	-2.12%	2.84%	
		5270	48.919	5.381	49.936	5.236	-2.08%	2.70%	
		5280	48.906	5.393	49.909	5.255	-2.05%	2.55%	
		5290	48.892	5.404	49.889	5.270	-2.04%	2.49%	
		5300	48.879	5.416	49.861	5.285	-2.01%	2.42%	
		5310	48.865	5.428	49.832	5.302	-1.98%	2.32%	
			5320	48.851	5.439	49.803	5.315	-1.95%	2.29%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Body	Nov. 9, 2017	5510	48.594	5.661	49.213	5.624	-1.27%	0.66%
		5530	48.566	5.685	49.157	5.656	-1.22%	0.50%
		5550	48.539	5.708	49.086	5.684	-1.13%	0.42%
		5600	48.471	5.766	48.947	5.772	-0.98%	-0.10%
		5610	48.458	5.778	48.912	5.787	-0.94%	-0.15%
		5670	48.376	5.848	48.723	5.887	-0.72%	-0.66%
	Nov. 10, 2017	5690	48.349	5.872	48.680	5.925	-0.68%	-0.91%
		5755	48.261	5.947	48.496	6.024	-0.49%	-1.29%
		5775	48.234	5.971	48.430	6.064	-0.41%	-1.56%
		5795	48.207	5.994	48.390	6.099	-0.38%	-1.75%
		5800	48.200	6.000	48.382	6.107	-0.38%	-1.78%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

The composition of the tissue simulating liquid:

Frequency (MHz)	Mode	Ingredient						Total amount
		DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	
2450M	Body	301.7ml	698.3ml	—	—	—	—	1.0L(Kg)

Body Simulating Liquids for 5 GHz, Manufactured by SPEAG:

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

Table 3. Recipes for Tissue Simulating Liquid

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1.11 Evaluation Procedures

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

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

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

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

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

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

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

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

1.12.2 Calibration with Analytical Fields

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

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

- The setup must enable accurate determination of the incident power.
- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.

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

References

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

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1.13 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 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

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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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2. Summary of Results

Flat Mode

WLAN802.11 - Main Antenna

Antenna	Mode	Position	Mode	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	WLAN802.11 b	Back side	Flat	0	1	2412	17	16.96	100.93%	0.845	0.853	-
		Back side	Flat	0	6	2437	17	16.62	109.14%	0.868	0.947	87
		Back side*	Flat	0	6	2437	17	16.62	109.14%	0.855	0.933	-
		Top side	Flat	0	1	2412	17	16.96	100.93%	0.291	0.294	-
		Right side	Flat	0	1	2412	17	16.96	100.93%	0.028	0.028	-
	WLAN802.11 n(40M)	Back side	Flat	0	6	2437	17	16.99	100.23%	0.937	0.939	-
		Back side	Flat	0	8	2447	17	16.97	100.69%	0.947	0.954	88
		Back side*	Flat	0	8	2447	17	16.97	100.69%	0.941	0.948	-
		Top side	Flat	0	6	2437	17	16.99	100.23%	0.329	0.330	-
		Right side	Flat	0	6	2437	17	16.99	100.23%	0.032	0.032	-
	WLAN802.11 ac(80M) 5.2G	Back side	Flat	0	42	5210	11	10.91	102.09%	1.050	1.072	-
		Back side*	Flat	0	42	5210	11	10.91	102.09%	1.010	1.031	-
		Top side	Flat	0	42	5210	11	10.91	102.09%	0.150	0.153	89
	WLAN802.11 ac(80M) 5.3G	Right side	Flat	0	42	5210	11	10.91	102.09%	0.012	0.012	-
		Back side	Flat	0	58	5290	11	10.97	100.69%	1.100	1.108	90
		Back side*	Flat	0	58	5290	11	10.97	100.69%	1.060	1.067	-
		Top side	Flat	0	58	5290	11	10.97	100.69%	0.181	0.182	-
	WLAN802.11 ac(80M) 5.6G	Right side	Flat	0	58	5290	11	10.97	100.69%	0.016	0.016	-
		Back side	Flat	0	106	5530	11	10.99	100.23%	0.876	0.878	-
		Back side	Flat	0	138	5690	11	10.95	101.16%	0.920	0.931	91
		Back side*	Flat	0	138	5690	11	10.95	101.16%	0.905	0.915	-
		Top side	Flat	0	106	5530	11	10.99	100.23%	0.122	0.122	-
	WLAN802.11 ac(80M) 5.8G	Right side	Flat	0	106	5530	11	10.99	100.23%	0.014	0.014	-
		Back side	Flat	0	155	5775	11.5	11.48	100.46%	0.993	0.998	92
Back side*		Flat	0	155	5775	11.5	11.48	100.46%	0.968	0.972	-	
Top side		Flat	0	155	5775	11.5	11.48	100.46%	0.145	0.146	-	
Right side	Flat	0	155	5775	11.5	11.48	100.46%	0.012	0.012	-		

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

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WLAN802.11 - Aux Antenna

Antenna	Mode	Position	Mode	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Aux	WLAN802.11 b	Back side	Flat	0	1	2412	17.5	17.46	100.93%	0.979	0.988	93
		Back side*	Flat	0	1	2412	17.5	17.46	100.93%	0.957	0.966	-
		Back side	Flat	0	11	2462	17.5	17.42	101.86%	0.945	0.963	-
		Top side	Flat	0	1	2412	17.5	17.46	100.93%	0.312	0.315	-
	WLAN802.11 n(40M)	Left side	Flat	0	1	2412	17.5	17.46	100.93%	0.029	0.029	-
		Back side	Flat	0	4	2427	17.5	17.37	103.04%	0.932	0.960	-
		Back side*	Flat	0	6	2437	17.5	17.44	101.39%	0.958	0.971	94
		Back side	Flat	0	6	2437	17.5	17.44	101.39%	0.948	0.961	-
		Top side	Flat	0	6	2437	17.5	17.44	101.39%	0.370	0.375	-
	Bleuttho (GFSK)	Left side	Flat	0	6	2437	17.5	17.44	101.39%	0.025	0.025	-
		Back side	Flat	0	39	2441	11.5	9.91	144.21%	0.235	0.339	95
		Top side	Flat	0	39	2441	11.5	9.91	144.21%	0.090	0.130	-
	WLAN802.11 ac(80M) 5.2G	Left side	Flat	0	39	2441	11.5	9.91	144.21%	0.010	0.014	-
		Back side	Flat	0	42	5210	12	11.93	101.62%	1.020	1.037	96
		Back side*	Flat	0	42	5210	12	11.93	101.62%	0.991	1.007	-
		Top side	Flat	0	42	5210	12	11.93	101.62%	0.165	0.168	-
	WLAN802.11 ac(80M) 5.3G	Left side	Flat	0	42	5210	12	11.93	101.62%	0.010	0.010	-
		Back side	Flat	0	58	5290	12	11.98	100.46%	1.080	1.085	97
		Back side*	Flat	0	58	5290	12	11.98	100.46%	1.010	1.015	-
		Top side	Flat	0	58	5290	12	11.98	100.46%	0.175	0.176	-
	WLAN802.11 ac(80M) 5.6G	Left side	Flat	0	58	5290	12	11.98	100.46%	0.013	0.013	-
		Back side	Flat	0	106	5530	11.5	11.49	100.23%	0.991	0.993	98
		Back side*	Flat	0	106	5530	11.5	11.49	100.23%	0.978	0.980	-
		Back side	Flat	0	138	5690	11.5	11.48	100.46%	0.915	0.919	-
	WLAN802.11 ac(80M) 5.8G	Top side	Flat	0	106	5530	11.5	11.49	100.23%	0.151	0.151	-
		Left side	Flat	0	106	5530	11.5	11.49	100.23%	0.015	0.015	-
		Back side	Flat	0	155	5775	13	12.98	100.46%	1.170	1.175	99
		Back side*	Flat	0	155	5775	13	12.98	100.46%	1.110	1.115	-
WLAN802.11 ac(80M) 5.8G	Top side	Flat	0	155	5775	13	12.98	100.46%	0.219	0.220	-	
	Left side	Flat	0	155	5775	13	12.98	100.46%	0.012	0.012	-	

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

Note:

$$\text{Scaling} = \frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P_2(\text{mW})}{P_1(\text{mW})} = 10^{\frac{(P_2 - P_1)}{10}} (\text{dBm})$$

Reported SAR = measured SAR * (scaling)

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

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Tablet Mode

WLAN802.11 - Main Antenna

Antenna	Mode	Position	Mode	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	WLAN802.11 b	Back side	Tablet	0	1	2412	19	18.98	100.46%	0.214	0.215	-
		Top side	Tablet	0	1	2412	19	18.98	100.46%	0.357	0.359	100
		Right side	Tablet	0	1	2412	19	18.98	100.46%	0.053	0.053	-
	WLAN802.11 n(40M)	Back side	Tablet	0	6	2437	19	18.95	101.16%	0.242	0.245	-
		Top side	Tablet	0	6	2437	19	18.95	101.16%	0.392	0.397	101
		Right side	Tablet	0	6	2437	19	18.95	101.16%	0.063	0.064	-
	WLAN802.11 n(40M) 5.2G	Back side	Tablet	0	38	5190	17	16.99	100.23%	0.459	0.460	-
		Top side	Tablet	0	38	5190	17	16.99	100.23%	0.957	0.959	-
		Top side	Tablet	0	46	5230	17	16.98	100.46%	1.070	1.075	102
		Top side*	Tablet	0	46	5230	17	16.98	100.46%	1.000	1.005	-
	WLAN802.11 a 5.3G	Back side	Tablet	0	38	5190	17	16.99	100.23%	0.046	0.046	-
		Back side	Tablet	0	52	5260	17	16.93	101.62%	0.445	0.452	-
		Top side	Tablet	0	52	5260	17	16.93	101.62%	1.120	1.138	-
		Top side	Tablet	0	56	5280	17	16.91	102.09%	1.130	1.154	103
	WLAN802.11 n(40M) 5.3G	Top side*	Tablet	0	56	5280	17	16.91	102.09%	1.100	1.123	-
		Right side	Tablet	0	52	5260	17	16.93	101.62%	0.052	0.053	-
		Back side	Tablet	0	54	5270	17	16.90	102.33%	0.427	0.437	-
		Top side	Tablet	0	54	5270	17	16.90	102.33%	1.100	1.126	104
	WLAN802.11 n(40M) 5.6G	Top side	Tablet	0	54	5270	17	16.90	102.33%	1.050	1.074	-
		Top side	Tablet	0	62	5310	14.5	14.49	100.23%	0.685	0.687	-
		Right side	Tablet	0	54	5270	17	16.90	102.33%	0.048	0.049	-
		Back side	Tablet	0	110	5550	17	16.97	100.69%	0.511	0.515	-
	WLAN802.11 n(40M) 5.6G	Top side	Tablet	0	102	5510	16.5	16.46	100.93%	1.120	1.130	-
		Top side	Tablet	0	110	5550	17	16.97	100.69%	1.180	1.188	105
		Top side*	Tablet	0	110	5550	17	16.97	100.69%	1.150	1.158	-
		Top side	Tablet	0	134	5670	17	16.82	104.23%	1.130	1.178	-
	WLAN802.11 ac(80M) 5.6G	Right side	Tablet	0	110	5550	17	16.97	100.69%	0.063	0.063	-
		Back side	Tablet	0	138	5690	17	16.99	100.23%	0.578	0.579	-
		Top side	Tablet	0	106	5530	13.5	13.42	101.86%	0.628	0.640	-
		Top side	Tablet	0	122	5610	17	16.81	104.47%	1.140	1.191	-
Top side		Tablet	0	138	5690	17	16.99	100.23%	1.170	1.173	106	
WLAN802.11 ac(80M) 5.8G	Top side*	Tablet	0	138	5690	17	16.99	100.23%	1.150	1.153	-	
	Right side	Tablet	0	138	5690	17	16.99	100.23%	0.061	0.061	-	
	Back side	Tablet	0	155	5775	17	16.97	100.69%	0.560	0.564	-	
	Top side	Tablet	0	155	5775	17	16.97	100.69%	1.150	1.158	107	
WLAN802.11 ac(80M) 5.8G	Top side*	Tablet	0	155	5775	17	16.97	100.69%	1.120	1.128	-	
	Right side	Tablet	0	155	5775	17	16.97	100.69%	0.051	0.052	-	
	Back side	Tablet	0	155	5775	17	16.97	100.69%	0.051	0.052	-	

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

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WLAN802.11 - Aux Antenna

Antenna	Mode	Position	Mode	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Aux	WLAN802.11 b	Back side	Tablet	0	2	2417	19	18.99	100.23%	0.214	0.214	-
		Top side	Tablet	0	2	2417	19	18.99	100.23%	0.420	0.421	108
		Left side	Tablet	0	2	2417	19	18.99	100.23%	0.120	0.120	-
	WLAN802.11 n(40M)	Back side	Tablet	0	6	2437	19	18.93	101.62%	0.228	0.232	-
		Top side	Tablet	0	6	2437	19	18.93	101.62%	0.461	0.468	109
		Left side	Tablet	0	6	2437	19	18.93	101.62%	0.130	0.132	-
	Bluetooth (GFSK)	Back side	Tablet	0	39	2441	11.5	9.91	144.21%	0.033	0.047	-
		Top side	Tablet	0	39	2441	11.5	9.91	144.21%	0.070	0.102	110
		Left side	Tablet	0	39	2441	11.5	9.91	144.21%	0.019	0.027	-
	WLAN802.11 n(40M) 5.2G	Back side	Tablet	0	46	5230	18	17.99	100.23%	0.416	0.417	-
		Top side	Tablet	0	38	5190	18	17.94	101.39%	0.909	0.922	-
		Top side	Tablet	0	46	5230	18	17.99	100.23%	0.999	1.001	111
		Top side*	Tablet	0	46	5230	18	17.99	100.23%	0.985	0.987	-
		Left side	Tablet	0	46	5230	18	17.99	100.23%	0.051	0.052	-
	WLAN802.11 a 5.3G	Back side	Tablet	0	60	5300	18	17.95	101.16%	0.442	0.447	-
		Top side	Tablet	0	52	5260	18	17.94	101.39%	1.070	1.085	-
		Top side	Tablet	0	60	5300	18	17.95	101.16%	1.170	1.184	112
		Top side*	Tablet	0	60	5300	18	17.95	101.16%	1.150	1.163	-
		Left side	Tablet	0	60	5300	18	17.95	101.16%	0.069	0.070	-
	WLAN802.11 n(40M) 5.3G	Back side	Tablet	0	54	5270	18	17.99	100.23%	0.469	0.470	-
		Top side	Tablet	0	54	5270	18	17.99	100.23%	1.100	1.103	113
		Top side*	Tablet	0	54	5270	18	17.99	100.23%	1.030	1.032	-
		Top side	Tablet	0	62	5310	15	14.97	100.69%	0.582	0.586	-
		Left side	Tablet	0	54	5270	18	17.99	100.23%	0.065	0.065	-
	WLAN802.11 n(40M) 5.6G	Back side	Tablet	0	110	5550	18	17.98	100.46%	0.482	0.484	-
		Top side	Tablet	0	110	5550	18	17.98	100.46%	1.150	1.155	114
		Top side*	Tablet	0	110	5550	18	17.98	100.46%	1.120	1.125	-
		Top side	Tablet	0	134	5670	17	16.87	103.04%	0.831	0.856	-
		Left side	Tablet	0	110	5550	18	17.98	100.46%	0.081	0.082	-
	WLAN802.11 ac(80M) 5.6G	Back side	Tablet	0	138	5690	18	17.99	100.23%	0.375	0.376	-
Top side		Tablet	0	106	5530	14	13.93	101.62%	0.398	0.404	-	
Top side		Tablet	0	122	5610	18	17.92	101.86%	0.887	0.903	-	
Top side		Tablet	0	138	5690	18	17.99	100.23%	0.930	0.932	115	
Top side*		Tablet	0	138	5690	18	17.99	100.23%	0.918	0.920	-	
WLAN802.11 n(40M) 5.8G	Back side	Tablet	0	159	5795	18	17.95	101.16%	0.396	0.401	-	
	Top side	Tablet	0	151	5755	18	17.93	101.62%	0.994	1.010	-	
	Top side	Tablet	0	159	5795	18	17.95	101.16%	1.020	1.032	116	
	Top side*	Tablet	0	159	5795	18	17.95	101.16%	1.000	1.012	-	
	Left side	Tablet	0	159	5795	18	17.95	101.16%	0.060	0.061	-	

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

Note:

$$\text{Scaling} = \frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P_2(\text{mW})}{P_1(\text{mW})} = 10^{\left(\frac{P_2 - P_1}{10}\right)} (\text{dBm})$$

Reported SAR = measured SAR * (scaling)

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

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Tent Mode

WLAN802.11 - Main Antenna

Antenna	Mode	Position	Mode	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	WLAN802.11 b	Tent	Tent	0	1	2412	19	18.98	100.46%	0.634	0.637	117
	WLAN802.11 n(40M)	Tent	Tent	0	6	2437	19	18.95	101.16%	0.684	0.692	118
	WLAN802.11 n(40M) 5.2G	Tent	Tent	0	38	5190	17	16.99	100.23%	1.060	1.062	-
		Tent	Tent	0	46	5230	17	16.98	100.46%	1.090	1.095	119
		Tent*	Tent	0	46	5230	17	16.98	100.46%	1.050	1.055	-
	WLAN802.11 a 5.3G	Tent	Tent	0	52	5260	17	16.93	101.62%	1.070	1.087	120
		Tent*	Tent	0	52	5260	17	16.93	101.62%	1.050	1.067	-
		Tent	Tent	0	56	5280	17	16.91	102.09%	0.988	1.009	-
	WLAN802.11 n(40M) 5.3G	Tent	Tent	0	54	5270	17	16.90	102.33%	1.020	1.044	121
		Tent*	Tent	0	54	5270	17	16.90	102.33%	0.989	1.012	-
		Tent	Tent	0	62	5310	14.5	14.49	100.23%	0.657	0.659	-
	WLAN802.11 n(40M) 5.6G	Tent	Tent	0	102	5510	16.5	16.46	100.93%	0.988	0.997	-
		Tent	Tent	0	110	5550	17	16.97	100.69%	1.120	1.128	122
		Tent*	Tent	0	110	5550	17	16.97	100.69%	1.080	1.087	-
	WLAN802.11 ac(80M) 5.6G	Tent	Tent	0	134	5670	17	16.82	104.23%	1.110	1.157	-
		Tent	Tent	0	106	5530	13.5	13.42	101.86%	0.506	0.515	-
		Tent	Tent	0	122	5610	17	16.81	104.47%	0.963	1.006	-
	WLAN802.11 ac(80M) 5.8G	Tent	Tent	0	138	5690	17	16.99	100.23%	1.070	1.072	123
		Tent*	Tent	0	138	5690	17	16.99	100.23%	1.050	1.052	-
		Tent	Tent	0	155	5775	17	16.97	100.69%	1.070	1.077	124
Tent*	Tent	0	155	5775	17	16.97	100.69%	1.020	1.027	-		

WLAN802.11 - Aux Antenna

Antenna	Mode	Position	Mode	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Aux	WLAN802.11 b	Tent	Tent	0	2	2417	19	18.99	100.23%	0.646	0.647	125
	WLAN802.11 n(40M)	Tent	Tent	0	6	2437	19	18.93	101.62%	0.644	0.654	126
	Bleutooth (GFSK)	Tent	Tent	0	39	2441	11.5	9.91	144.21%	0.097	0.139	127
	WLAN802.11 n(40M) 5.2G	Tent	Tent	0	38	5190	18	17.94	101.39%	1.040	1.054	-
		Tent	Tent	0	46	5230	18	17.99	100.23%	1.140	1.143	128
		Tent*	Tent	0	46	5230	18	17.99	100.23%	1.110	1.113	-
	WLAN802.11 a 5.3G	Tent	Tent	0	52	5260	18	17.94	101.39%	1.150	1.166	-
		Tent	Tent	0	60	5300	18	17.95	101.16%	1.170	1.184	129
		Tent*	Tent	0	60	5300	18	17.95	101.16%	1.130	1.143	-
	WLAN802.11 n(40M) 5.3G	Tent	Tent	0	54	5270	18	17.99	100.23%	1.160	1.163	130
		Tent*	Tent	0	54	5270	18	17.99	100.23%	1.140	1.143	-
		Tent	Tent	0	62	5310	15	14.97	100.69%	0.648	0.652	-
	WLAN802.11 n(40M) 5.6G	Tent	Tent	0	110	5550	18	17.98	100.46%	1.180	1.185	131
		Tent*	Tent	0	110	5550	18	17.98	100.46%	1.120	1.125	-
		Tent	Tent	0	134	5670	17	16.87	103.04%	1.100	1.133	-
	WLAN802.11 ac(80M) 5.6G	Tent	Tent	0	106	5530	14	13.93	101.62%	0.411	0.418	-
		Tent	Tent	0	122	5610	18	17.92	101.86%	1.010	1.029	-
		Tent	Tent	0	138	5690	18	17.99	100.23%	1.080	1.082	132
		Tent*	Tent	0	138	5690	18	17.99	100.23%	1.050	1.052	-
	WLAN802.11 n(40M) 5.8G	Tent	Tent	0	151	5755	18	17.93	101.62%	1.120	1.138	-
Tent		Tent	0	159	5795	18	17.95	101.16%	1.170	1.184	133	
Tent*		Tent	0	159	5795	18	17.95	101.16%	1.150	1.163	-	

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Stand Mode

WLAN802.11 - Main Antenna

Antenna	Mode	Position	Mode	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Main	WLAN802.11 b	Stand	Stand	0	1	2412	20	19.94	101.39%	0.023	0.023	134
	WLAN802.11 g	Stand	Stand	0	2	2417	20	19.95	101.16%	0.023	0.023	135
	WLAN802.11 a 5.2G	Stand	Stand	0	40	5200	20	19.99	100.23%	0.041	0.041	136
	WLAN802.11 n(40M) 5.2	Stand	Stand	0	46	5230	20	19.98	100.46%	0.034	0.034	137
	WLAN802.11 a 5.3.G	Stand	Stand	0	60	5300	20	19.92	101.86%	0.073	0.074	138
	WLAN802.11 n(40M) 5.3G	Stand	Stand	0	54	5270	20	19.96	100.93%	0.035	0.035	139
	WLAN802.11 n(40M) 5.6G	Stand	Stand	0	110	5550	20	19.99	100.23%	0.037	0.037	140
	WLAN802.11 ac(80M) 5.6G	Stand	Stand	0	138	5690	20	19.93	101.62%	0.097	0.099	141
WLAN802.11 n(40M) 5.8G	Stand	Stand	0	151	5755	20	19.96	100.93%	0.036	0.036	142	

WLAN802.11 - Aux Antenna

Antenna	Mode	Position	Mode	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Aux	WLAN802.11 b	Stand	Stand	0	2	2417	20	19.92	101.86%	0.012	0.012	143
	WLAN802.11 g	Stand	Stand	0	2	2417	20	19.88	102.80%	0.014	0.014	144
	Bleutoh (GFSK)	Stand	Stand	0	39	2441	11.5	9.91	144.21%	0.001	0.001	145
	WLAN802.11 a 5.2G	Stand	Stand	0	44	5220	20	19.95	101.16%	0.036	0.036	146
	WLAN802.11 n(40M) 5.2	Stand	Stand	0	46	5230	20	19.91	102.09%	0.033	0.034	147
	WLAN802.11 a 5.3.G	Stand	Stand	0	52	5260	20	19.92	101.86%	0.036	0.037	148
	WLAN802.11 n(40M) 5.3G	Stand	Stand	0	54	5270	20	19.86	103.28%	0.037	0.038	149
	WLAN802.11 n(40M) 5.6G	Stand	Stand	0	110	5550	20	19.99	100.23%	0.041	0.041	150
	WLAN802.11 ac(80M) 5.6G	Stand	Stand	0	138	5690	20	19.93	101.62%	0.039	0.040	151
WLAN802.11 n(40M) 5.8G	Stand	Stand	0	151	5755	20	19.94	101.39%	0.047	0.047	152	

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
2.4GHz WLAN MIMO	Yes
5GHz WLAN MIMO	Yes
BT + 2.4GHz WLAN Main	Yes
BT + 5GHz WLAN Main	Yes

Note:

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

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3.1 Estimated SAR calculation

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

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

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

3.2 SPLSR evaluation and analysis

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

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

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

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

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

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Flat Mode

2.4 GHz WLAN MIMO

No.	Conditions	Position	Mode	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
1	2.4 GHz WLAN Main + WLAN Aux	Back side	Flat	0.954	0.988	1.942	Analyzed as below
		Top side	Flat	0.330	0.375	0.705	Σ SAR<1.6, Not required
		Right side	Flat	0.032	-	-	Σ SAR<1.6, Not required
		Left side	Flat	-	0.029	-	Σ SAR<1.6, Not required

WLAN MIMO

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.954	10.06	8.82	-0.52	1.942	186.6	0.015	SPLSR<0.04, Not required
WLAN Aux		0.988	10.18	-9.84	-0.53				



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5 GHz WLAN MIMO

No.	Conditions	Position	Mode	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
2	5 GHz WLAN Main + WLAN Aux	Back side	Flat	1.108	1.175	2.283	Analyzed as below
		Top side	Flat	0.182	0.220	0.402	Σ SAR<1.6, Not required
		Right side	Flat	0.016	-	-	Σ SAR<1.6, Not required
		Left side	Flat	-	0.015	-	Σ SAR<1.6, Not required

WLAN MIMO

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.108	98.40	91.20	-5.31	2.283	190.2	0.018	SPLSR<0.04, Not required
WLAN Aux		1.175	99.40	-99.00	-5.31				



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2.4GHz WLAN Main + BT

No.	Conditions	Position	Mode	Max. WLAN Main	BT	SAR Sum	SPLSR
3	2.4 GHz WLAN Main + BT	Back side	Flat	0.954	0.339	1.293	Σ SAR<1.6, Not required
		Top side	Flat	0.330	0.130	0.460	Σ SAR<1.6, Not required
		Right side	Flat	0.032	-	-	Σ SAR<1.6, Not required
		Left side	Flat	-	0.014	-	Σ SAR<1.6, Not required

5GHz WLAN Main + BT

No.	Conditions	Position	Mode	Max. WLAN Main	Bt	SAR Sum	SPLSR
4	5 GHz WLAN Main + BT	Back side	Flat	1.108	0.339	1.447	Σ SAR<1.6, Not required
		Top side	Flat	0.182	0.130	0.312	Σ SAR<1.6, Not required
		Right side	Flat	0.016	-	-	Σ SAR<1.6, Not required
		Left side	Flat	-	0.014	-	Σ SAR<1.6, Not required

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Tablet Mode

2.4 GHz WLAN MIMO

No.	Conditions	Position	Mode	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
1	2.4 GHz WLAN Main + WLAN Aux	Back side	Tablet	0.245	0.232	0.477	Σ SAR<1.6, Not required
		Top side	Tablet	0.397	0.468	0.865	Σ SAR<1.6, Not required
		Right side	Tablet	0.064	-	-	Σ SAR<1.6, Not required
		Left side	Tablet	-	0.132	-	Σ SAR<1.6, Not required

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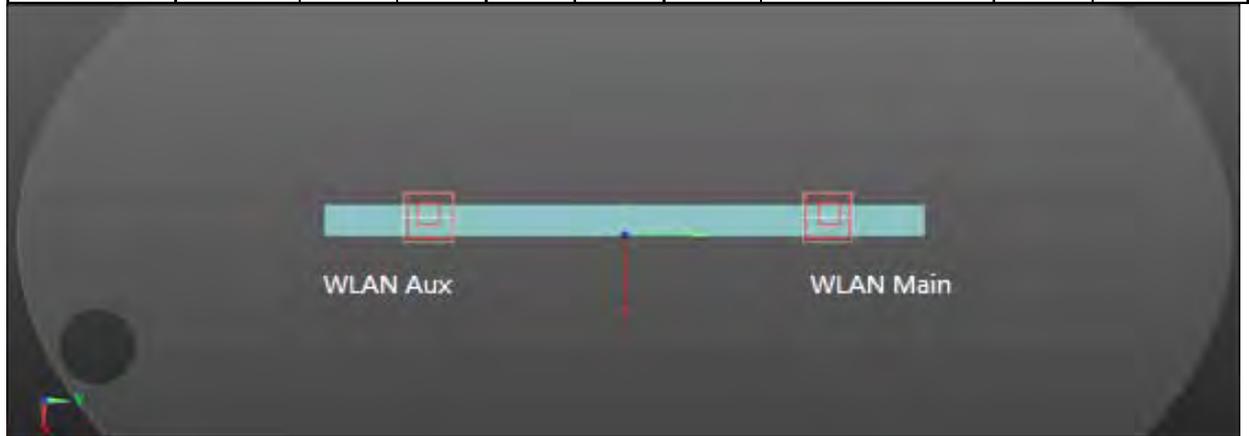
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5 GHz WLAN MIMO

No.	Conditions	Position	Mode	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
2	5 GHz WLAN Main + WLAN Aux	Back side	Tablet	0.579	0.484	1.063	Σ SAR<1.6, Not required
		Top side	Tablet	1.191	1.184	2.375	Analyzed as below
		Right side	Tablet	0.063	-	-	Σ SAR<1.6, Not required
		Left side	Tablet	-	0.082	-	Σ SAR<1.6, Not required

WLAN MIMO

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Top side	1.191	-10.60	98.00	-7.39	2.375	190.6	0.019	SPLSR<0.04, Not required
WLAN Aux		1.184	-10.60	-92.60	-7.51				



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2.4GHz WLAN Main + BT

No.	Conditions	Position	Mode	Max. WLAN Main	BT	SAR Sum	SPLSR
3	2.4 GHz WLAN Main + BT	Back side	Tablet	0.245	0.047	0.292	Σ SAR<1.6, Not required
		Top side	Tablet	0.397	0.102	0.499	Σ SAR<1.6, Not required
		Right side	Tablet	0.064	-	-	Σ SAR<1.6, Not required
		Left side	Tablet	-	0.027	-	Σ SAR<1.6, Not required

5GHz WLAN Main + BT

No.	Conditions	Position	Mode	Max. WLAN Main	Bt	SAR Sum	SPLSR
4	5 GHz WLAN Main + BT	Back side	Tablet	0.579	0.047	0.626	Σ SAR<1.6, Not required
		Top side	Tablet	1.191	0.102	1.293	Σ SAR<1.6, Not required
		Right side	Tablet	0.063	-	-	Σ SAR<1.6, Not required
		Left side	Tablet	-	0.027	-	Σ SAR<1.6, Not required

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Tent Mode

2.4 GHz WLAN MIMO

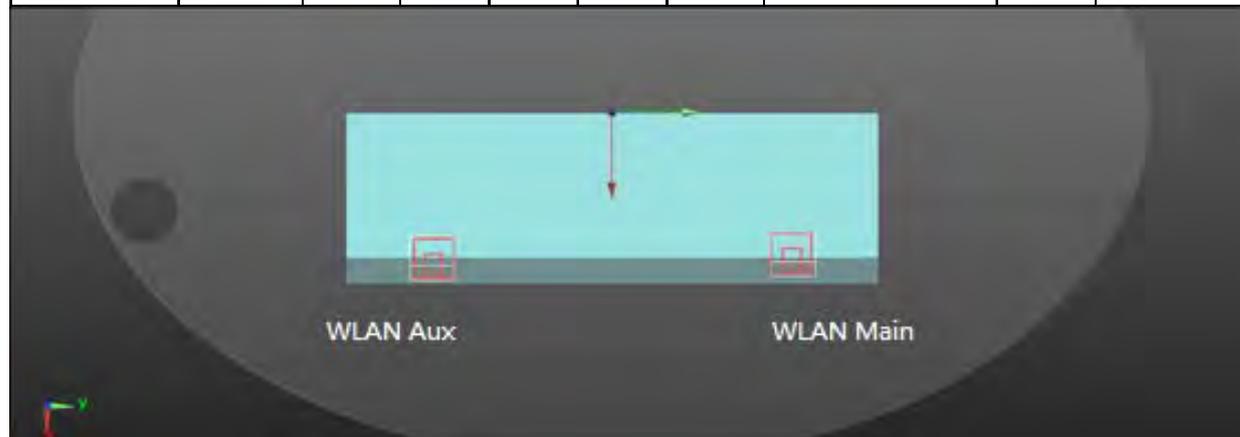
No.	Conditions	Position	Mode	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
1	2.4 GHz WLAN Main + WLAN Aux	Tent	Tent	0.692	0.654	1.346	Σ SAR<1.6, Not required

5 GHz WLAN MIMO

No.	Conditions	Position	Mode	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
2	5 GHz WLAN Main + WLAN Aux	Tent	Tent	1.157	1.185	2.342	Analyzed as below

WLAN MIMO

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Tent	1.157	8.52	8.70	-0.62	2.342	182	0.020	SPLSR<0.04, Not required
WLAN Aux		1.185	8.56	-9.50	-0.61				



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2.4GHz WLAN Main + BT

No.	Conditions	Position	Mode	Max. WLAN Main	BT	SAR Sum	SPLSR
3	2.4 GHz WLAN Main + BT	Tent	Tent	0.692	0.139	0.831	Σ SAR<1.6, Not required

5GHz WLAN Main + BT

No.	Conditions	Position	Mode	Max. WLAN Main	BT	SAR Sum	SPLSR
4	5 GHz WLAN Main + BT	Tent	Tent	1.157	0.139	1.296	Σ SAR<1.6, Not required

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Stand Mode

2.4 GHz WLAN MIMO

No.	Conditions	Position	Mode	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
1	2.4 GHz WLAN Main + WLAN Aux	Stand	Stand	0.023	0.014	0.037	Σ SAR<1.6, Not required

5 GHz WLAN MIMO

No.	Conditions	Position	Mode	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
2	5 GHz WLAN Main + WLAN Aux	Stand	Stand	0.099	0.047	0.146	Σ SAR<1.6, Not required

2.4GHz WLAN Main + BT

No.	Conditions	Position	Mode	Max. WLAN Main	BT	SAR Sum	SPLSR
3	2.4 GHz WLAN Main + BT	Stand	Stand	0.023	0.001	0.024	Σ SAR<1.6, Not required

5GHz WLAN Main + BT

No.	Conditions	Position	Mode	Max. WLAN Main	BT	SAR Sum	SPLSR
4	5 GHz WLAN Main + BT	Stand	Stand	0.099	0.001	0.100	Σ SAR<1.6, Not required

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4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	3938	Sep.29,2017	Sep.28,2018
Schmid & Partner Engineering AG	System Validation Dipole	D2450V2	727	Apr.21,2017	Apr.20,2018
		D5GHzV2	1023	Jan.20,2017	Jan.19,2018
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	1260	Sep.28,2017	Sep.27,2018
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
Agilent	Dual-directional coupler	772D	MY52180142	Apr.13,2017	Apr.12,2018
		778D	MY52180302	Apr.13,2017	Apr.12,2018
Agilent	RF Signal Generator	N5181A	MY50144143	Mar.01,2017	Feb.28,2018
Agilent	Power Meter	E4417A	MY51410006	Jan.20,2017	Jan.19,2018
Agilent	Power Sensor	E9301H	MY51470001	Jan.20,2017	Jan.19,2018
			MY51470002	Jan.20,2017	Jan.19,2018
TECPEL	Digital thermometer	DTM-303A	TP130077	Mar.17,2017	Mar.16,2018

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5. Measurements

Date: 2017/11/6

WLAN 802.11b Flat mode Back side CH 6 Main 0mm

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.883$ S/m; $\epsilon_r = 52.926$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

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

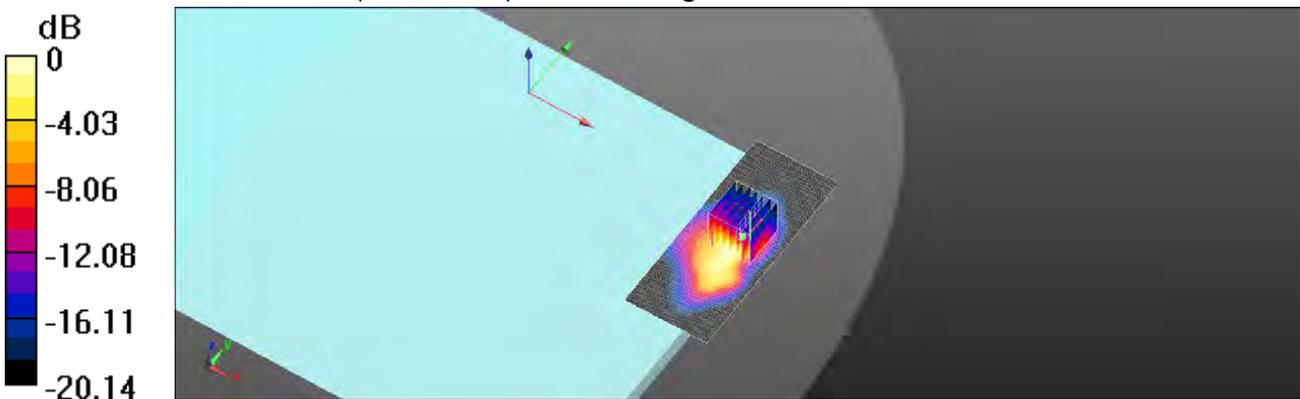
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.535 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 0.868 W/kg; SAR(10 g) = 0.430 W/kg

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



0 dB = 1.58 W/kg = 1.99 dBW/kg

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Date: 2017/11/6

WLAN 802.11n(40M) Flat mode Back side CH 8 Main 0mm

Communication System: WLAN 2.4G; Frequency: 2447 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2447 \text{ MHz}$; $\sigma = 1.896 \text{ S/m}$; $\epsilon_r = 53.044$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.72 W/kg

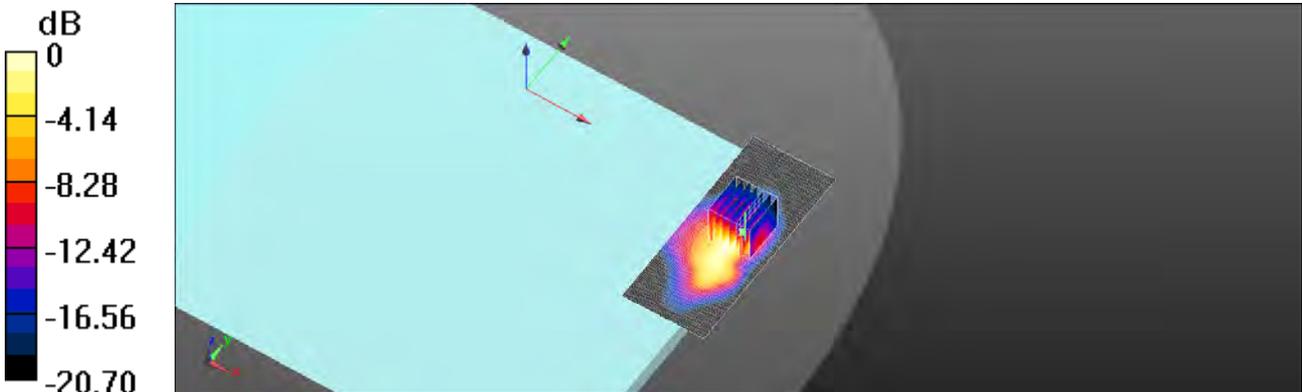
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.598 V/m ; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 0.947 W/kg ; SAR(10 g) = 0.451 W/kg

Maximum value of SAR (measured) = 1.66 W/kg



0 dB = $1.66 \text{ W/kg} = 2.20 \text{ dBW/kg}$

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Date: 2017/11/7

WLAN 802.11ac(80M) 5.2G Flat mode Back side CH 42 Main 0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 5.14 \text{ S/m}$; $\epsilon_r = 50.146$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.28 W/kg

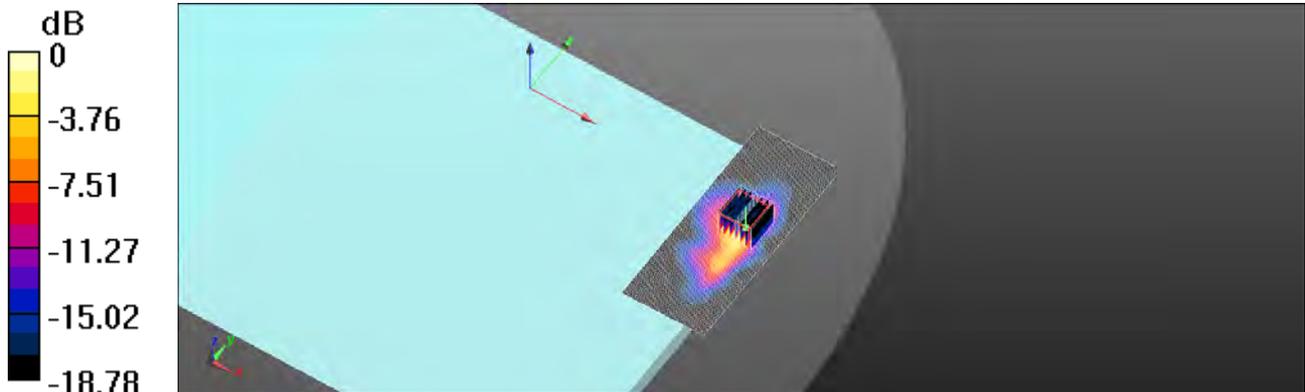
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.880 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 7.00 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.325 W/kg

Maximum value of SAR (measured) = 2.14 W/kg



0 dB = 2.14 W/kg = 3.30 dBW/kg

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Date: 2017/11/8

WLAN 802.11ac(80M) 5.3G Flat mode Back side CH 58 Main 0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 5.27 \text{ S/m}$; $\epsilon_r = 49.889$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.50 W/kg

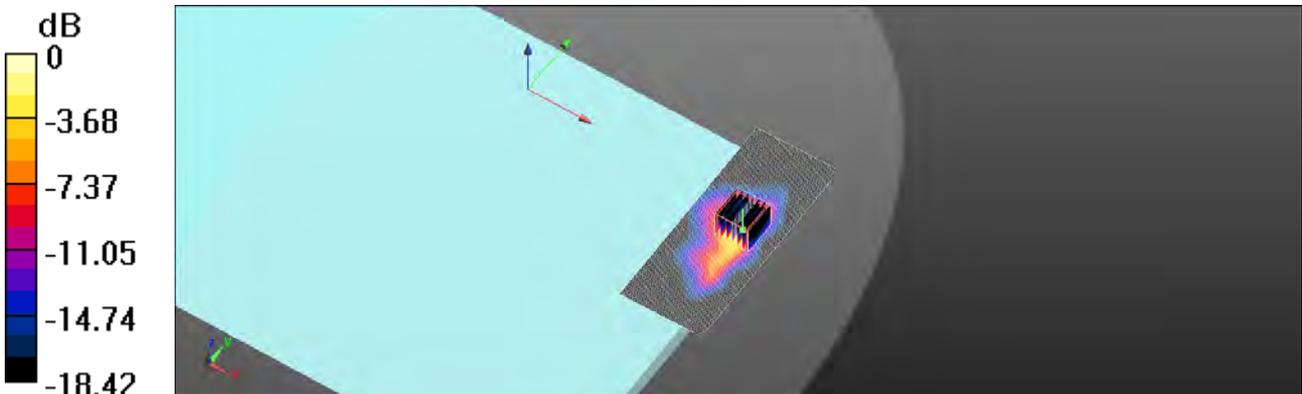
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.865 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 5.62 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.345 W/kg

Maximum value of SAR (measured) = 2.26 W/kg



0 dB = 2.26 W/kg = 3.54 dBW/kg

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Date: 2017/11/9

WLAN 802.11ac(80M) 5.6G Flat mode Back side CH 138 Main 0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.925 \text{ S/m}$; $\epsilon_r = 48.68$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.13 W/kg

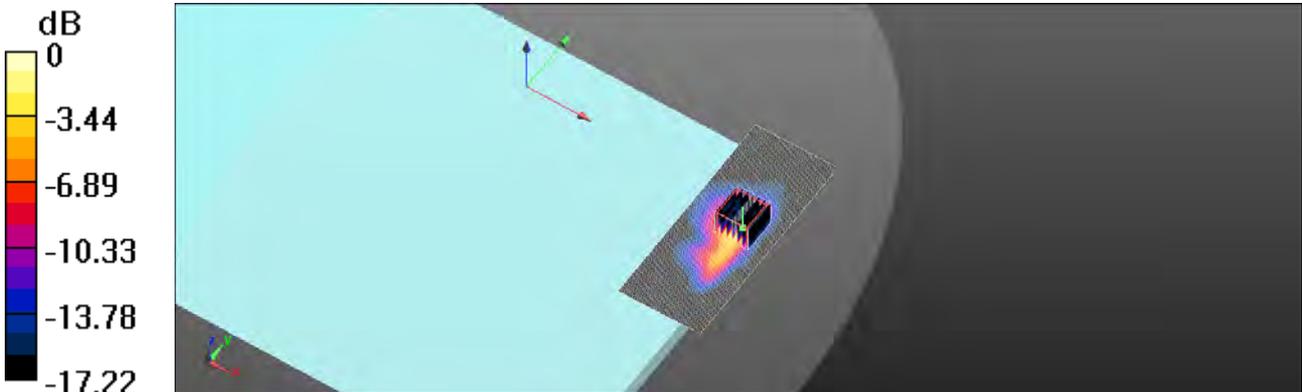
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.013 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 5.88 W/kg

SAR(1 g) = 0.920 W/kg; SAR(10 g) = 0.284 W/kg

Maximum value of SAR (measured) = 1.96 W/kg



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

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Date: 2017/11/10

WLAN 802.11ac(80M) 5.8G Flat mode Back side CH 155 Main 0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 6.064 \text{ S/m}$; $\epsilon_r = 48.43$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.4°C ; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.55 W/kg

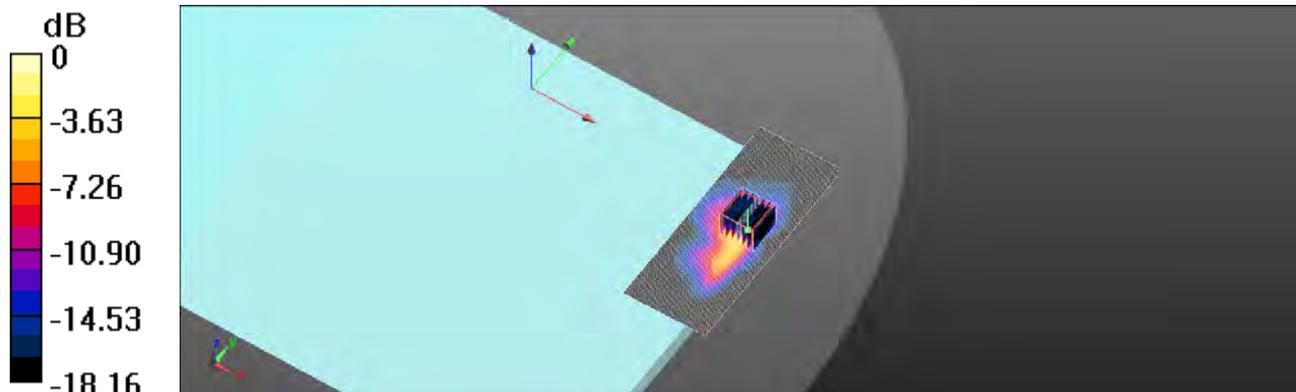
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.249 V/m ; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 6.04 W/kg

SAR(1 g) = 0.993 W/kg ; SAR(10 g) = 0.303 W/kg

Maximum value of SAR (measured) = 2.16 W/kg



0 dB = $2.16 \text{ W/kg} = 3.34 \text{ dBW/kg}$

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Date: 2017/11/6

WLAN 802.11b Flat mode Back side CH 1 Aux 0mm

Communication System: WLAN 2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.847 \text{ S/m}$; $\epsilon_r = 53.142$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.92 W/kg

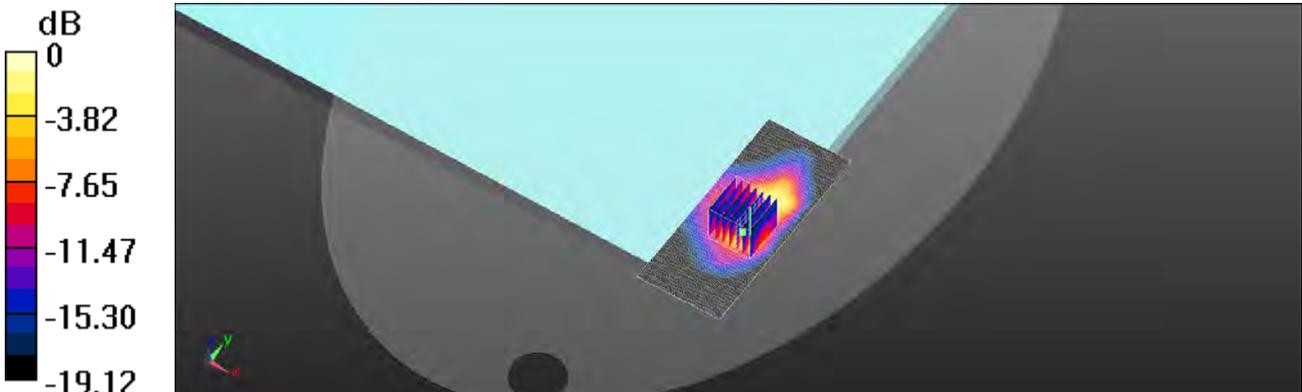
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.674 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 0.979 W/kg ; SAR(10 g) = 0.511 W/kg

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



0 dB = $1.75 \text{ W/kg} = 2.43 \text{ dBW/kg}$

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Date: 2017/11/6

WLAN 802.11n(40M) Flat mode Back side CH 6 Aux 0mm

Communication System: WLAN 2.4G; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.883 \text{ S/m}$; $\epsilon_r = 52.926$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

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

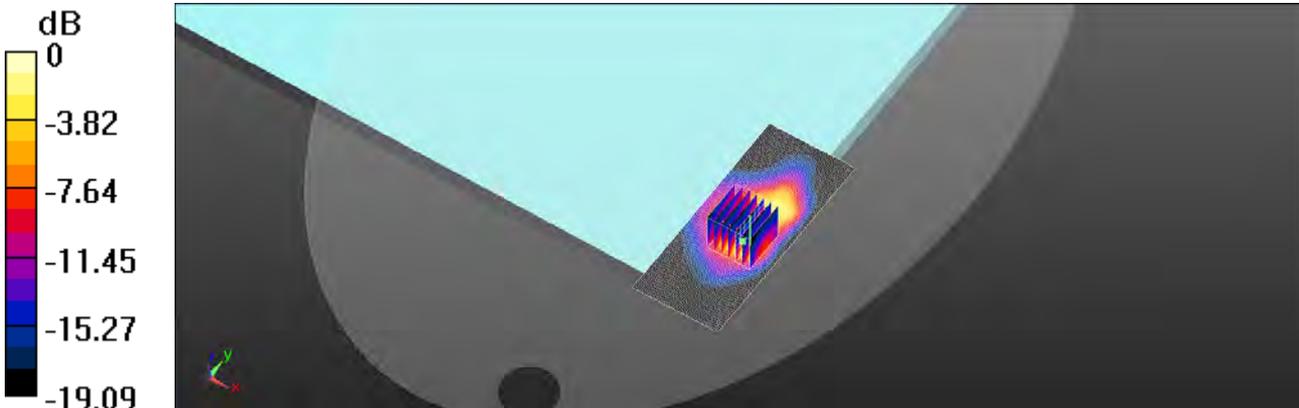
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.810 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 0.958 W/kg; SAR(10 g) = 0.495 W/kg

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



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

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Date: 2017/11/6

Bluetooth(GFSK) Flat mode Back side CH 39 Aux 0mm

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.887 \text{ S/m}$; $\epsilon_r = 52.973$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.5°C; Liquid temperature: 21.9°C
DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.532 W/kg

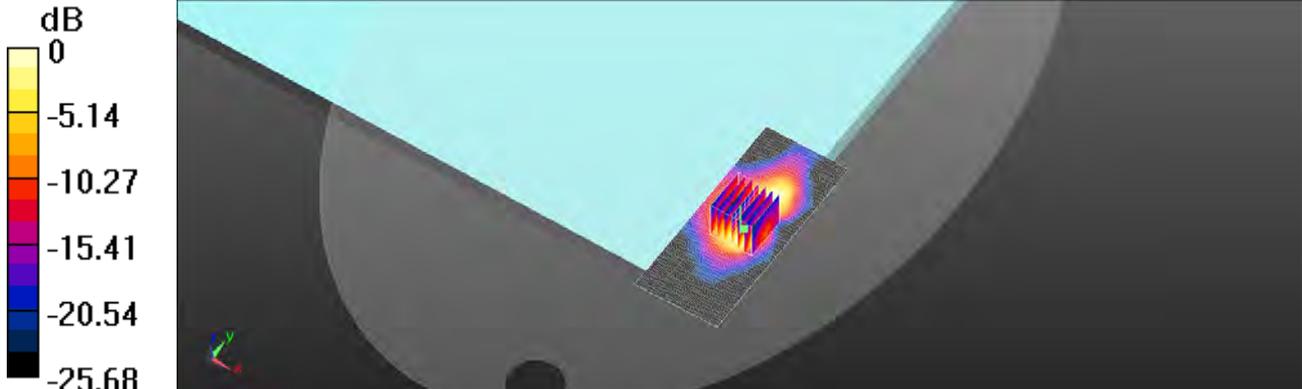
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.437 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.733 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.114 W/kg

Maximum value of SAR (measured) = 0.418 W/kg



0 dB = 0.418 W/kg = -3.79 dBW/kg

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Date: 2017/11/7

WLAN 802.11ac(80M) 5.2G Flat mode Back side CH 42 Aux 0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 5.14 \text{ S/m}$; $\epsilon_r = 50.146$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.41 W/kg

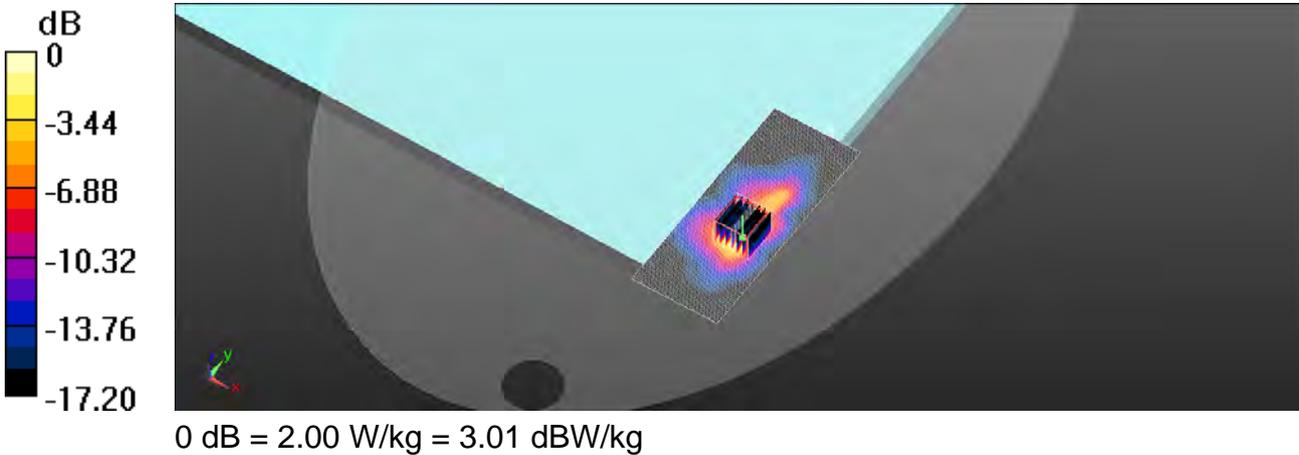
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.166 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 4.96 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.352 W/kg

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



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Date: 2017/11/8

WLAN 802.11ac(80M) 5.3G Flat mode Back side CH 58 Aux 0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 5.27 \text{ S/m}$; $\epsilon_r = 49.889$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.49 W/kg

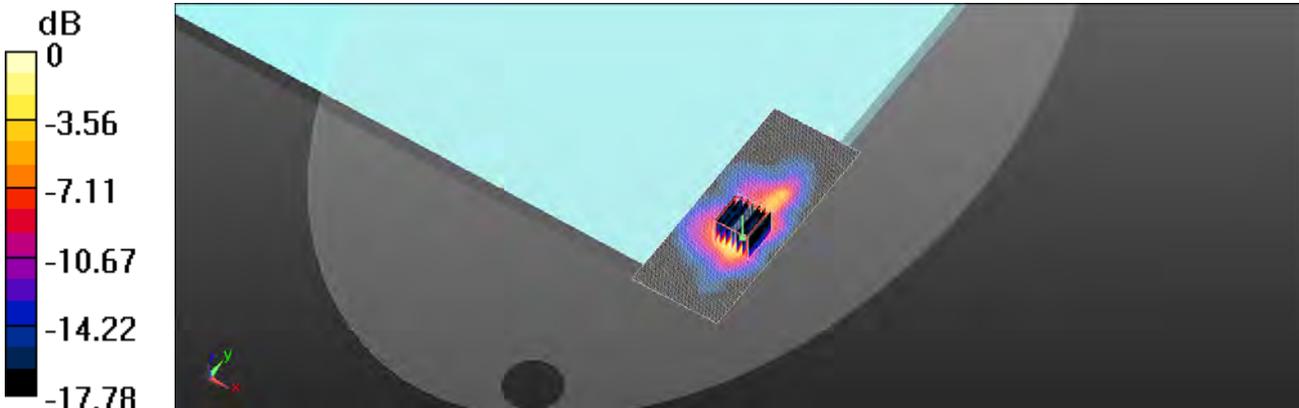
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.048 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 5.64 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.359 W/kg

Maximum value of SAR (measured) = 2.12 W/kg



0 dB = 2.12 W/kg = 3.26 dBW/kg

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Date: 2017/11/9

WLAN 802.11ac(80M) 5.6G Flat mode Back side CH 106 Aux 0mm

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 5.656 \text{ S/m}$; $\epsilon_r = 49.157$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.34 W/kg

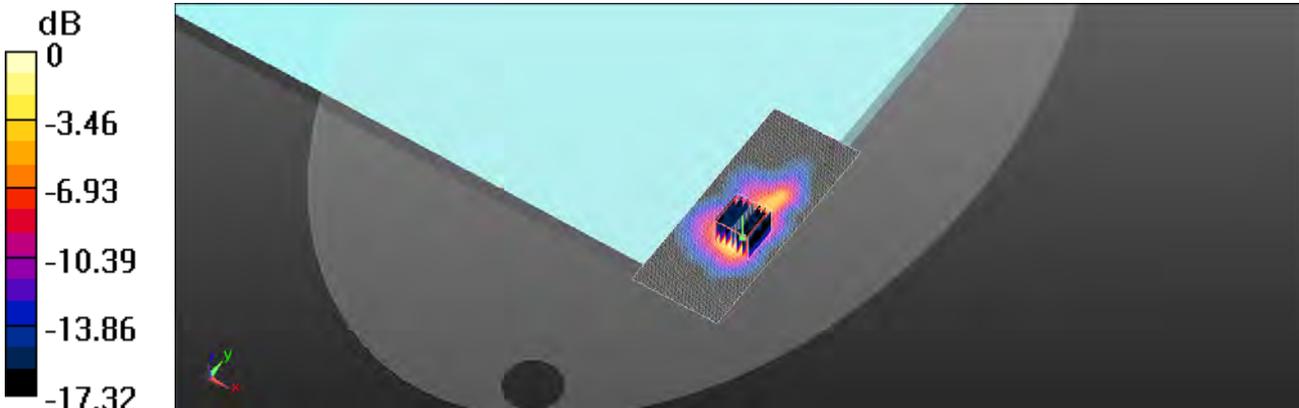
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.955 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 5.33 W/kg

SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.325 W/kg

Maximum value of SAR (measured) = 1.92 W/kg



0 dB = 1.92 W/kg = 2.83 dBW/kg

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Date: 2017/11/10

WLAN 802.11ac(80M) 5.8G Flat mode Back side CH 155 Aux 0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 6.064 \text{ S/m}$; $\epsilon_r = 48.43$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 3.15 W/kg

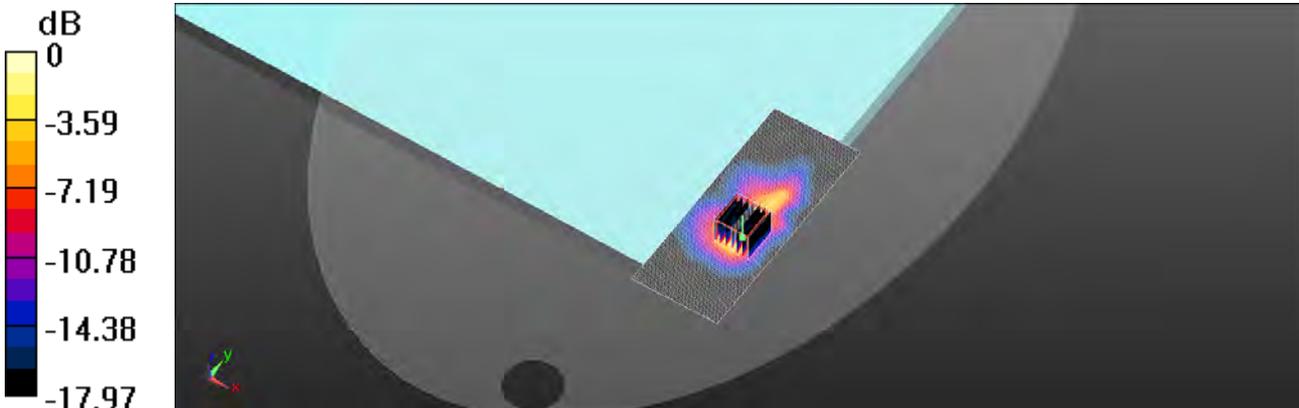
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.289 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 6.80 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.384 W/kg

Maximum value of SAR (measured) = 2.40 W/kg



0 dB = 2.40 W/kg = 3.80 dBW/kg

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Date: 2017/11/6

WLAN 802.11b_Tablet mode_Top side_CH 1_Main_0mm

Communication System: WLAN 2.4G; Frequency: 2412 MHz

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.847 \text{ S/m}$; $\epsilon_r = 53.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

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

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

Reference Value = 4.351 V/m ; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.357 W/kg ; SAR(10 g) = 0.171 W/kg

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

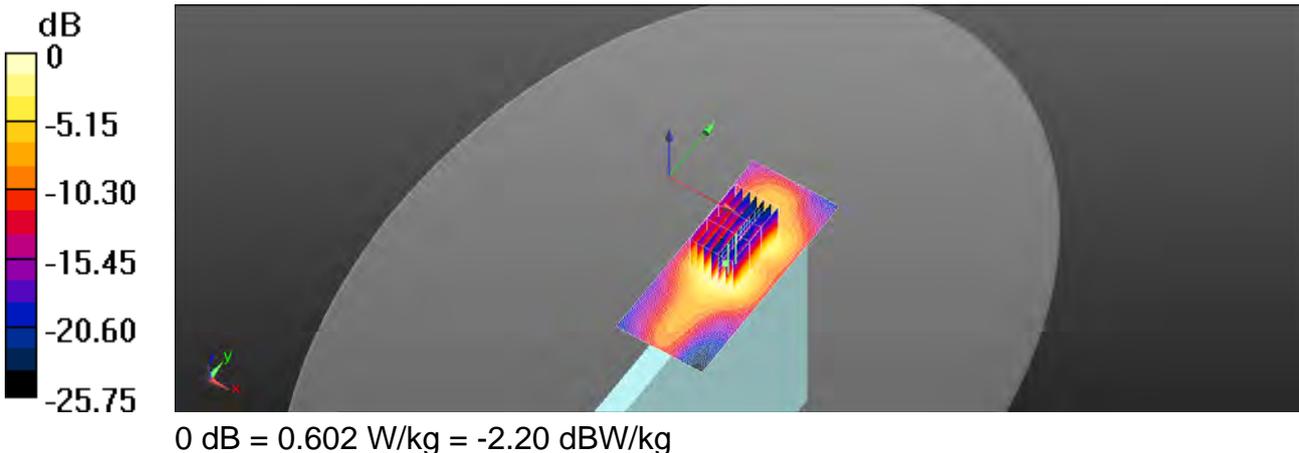
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.351 V/m ; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.337 W/kg ; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.602 W/kg



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Date: 2017/11/6

WLAN 802.11n(40M)_Tablet mode_Top side_CH 6_Main_0mm

Communication System: WLAN 2.4G; Frequency: 2437 MHz

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.883 \text{ S/m}$; $\epsilon_r = 52.926$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.593 W/kg

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

Reference Value = 4.121 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.392 W/kg ; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.830 W/kg

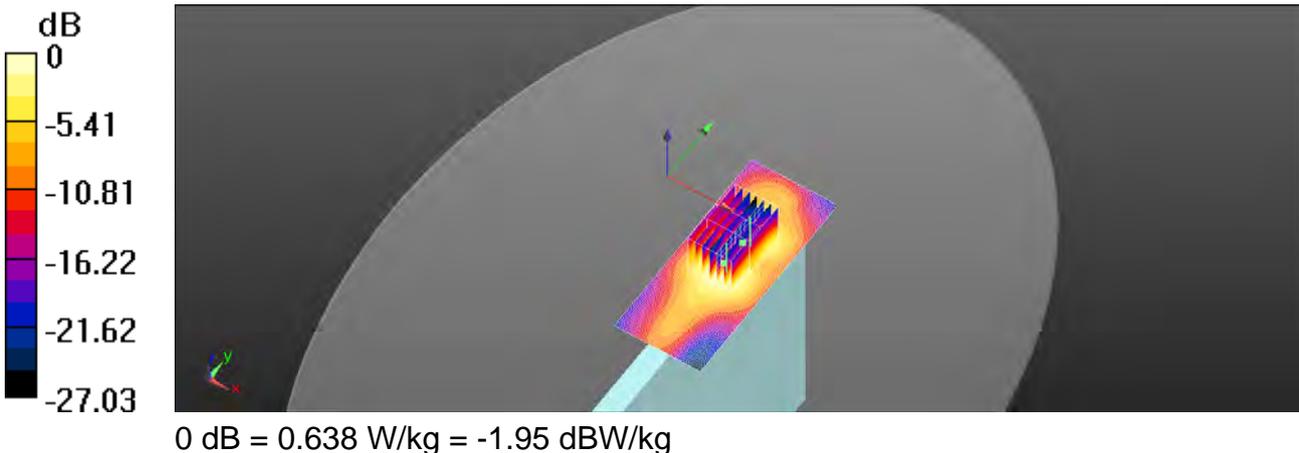
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.121 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.378 W/kg ; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.638 W/kg



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Date: 2017/11/7

WLAN 802.11n(40M) 5.2G Tablet mode_Top side_CH 46_Main_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 5.17 \text{ S/m}$; $\epsilon_r = 50.088$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.10 W/kg

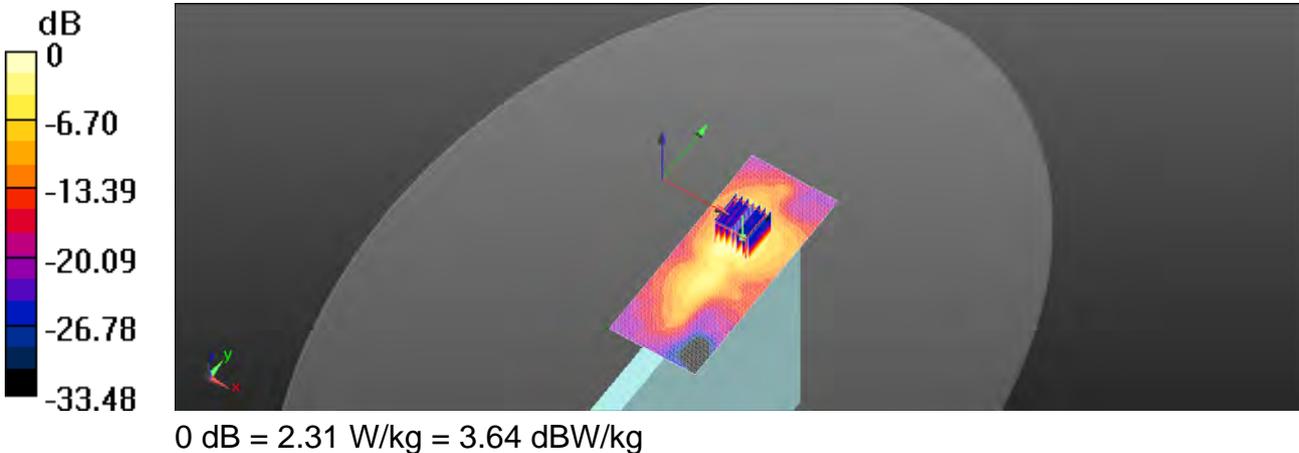
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.005 V/m ; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 5.54 W/kg

SAR(1 g) = 1.07 W/kg ; SAR(10 g) = 0.314 W/kg

Maximum value of SAR (measured) = 2.31 W/kg



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Date: 2017/11/8

WLAN 802.11a 5.3G Tablet mode Top side CH 56 Main 0mm

Communication System: WLAN 5G; Frequency: 5280 MHz

Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 5.255 \text{ S/m}$; $\epsilon_r = 49.909$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.20 W/kg

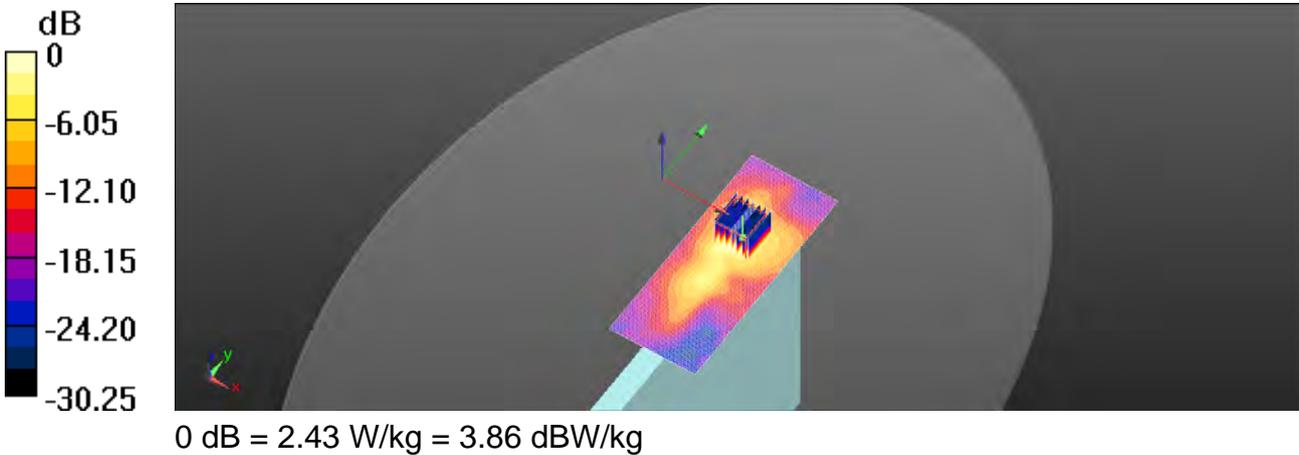
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.003 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 6.20 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.322 W/kg

Maximum value of SAR (measured) = 2.43 W/kg



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Date: 2017/11/8

WLAN 802.11n(40M) 5.3G Tablet mode_Top side_CH 54_Main_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 5.236 \text{ S/m}$; $\epsilon_r = 49.936$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.13 W/kg

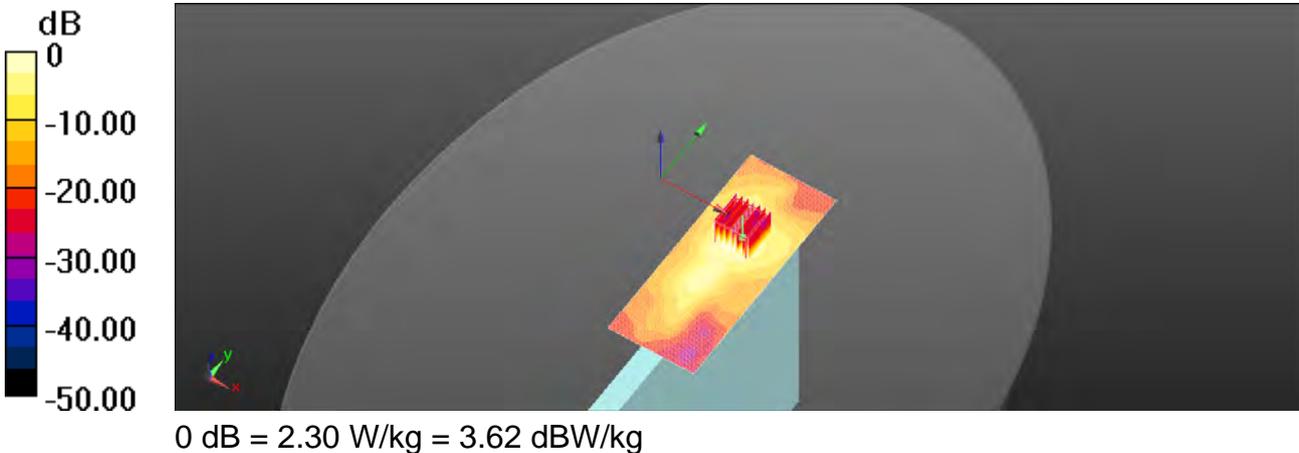
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.000 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 6.20 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 2.30 W/kg



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Date: 2017/11/9

WLAN 802.11n(40M) 5.6G Tablet mode_Top side_CH 110_Main_0mm

Communication System: WLAN 5G; Frequency: 5550 MHz

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.684 \text{ S/m}$; $\epsilon_r = 49.086$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.49 W/kg

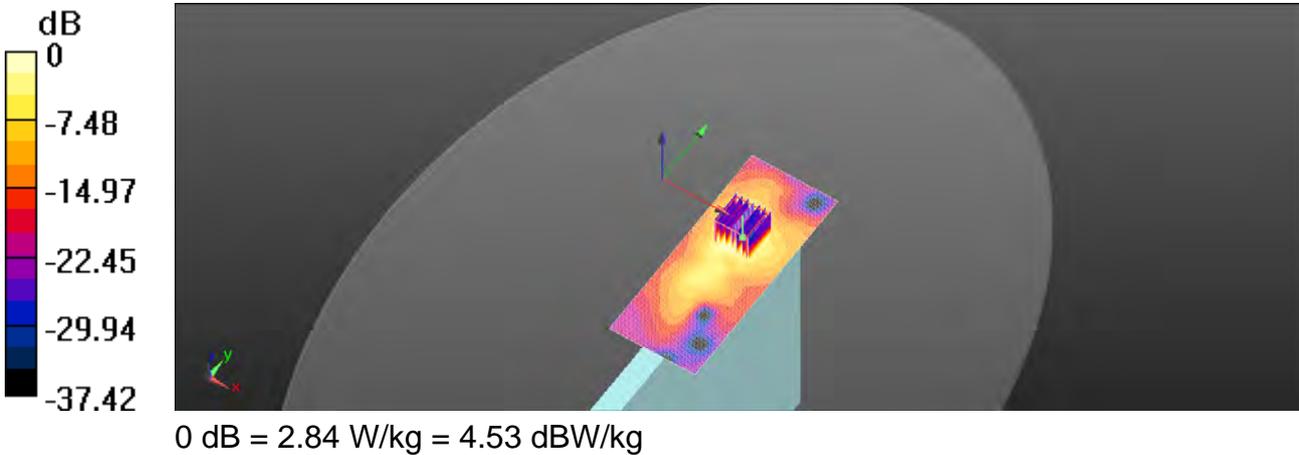
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.494 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 8.24 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.371 W/kg

Maximum value of SAR (measured) = 2.84 W/kg



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Date: 2017/11/9

WLAN 802.11ac(80M) 5.6G Tablet mode_Top side_CH 138_Main_0mm

Communication System: WLAN 5G; Frequency: 5690 MHz

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.925 \text{ S/m}$; $\epsilon_r = 48.68$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.38 W/kg

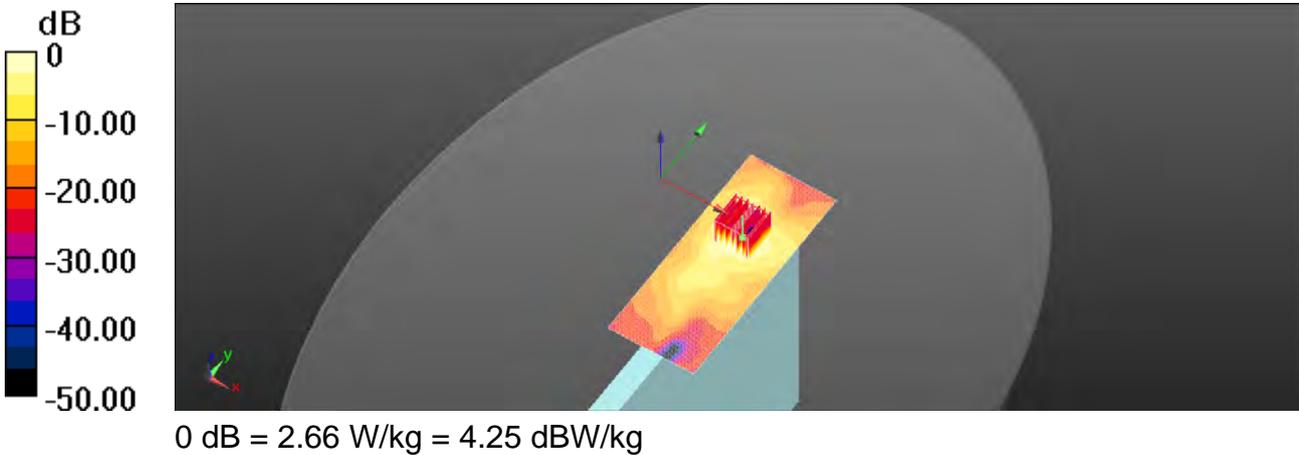
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.512 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 7.91 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.369 W/kg

Maximum value of SAR (measured) = 2.66 W/kg



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Date: 2017/11/10

WLAN 802.11ac(80M) 5.8G_Tablet mode_Top side_CH 155_Main_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 6.064 \text{ S/m}$; $\epsilon_r = 48.43$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.25 W/kg

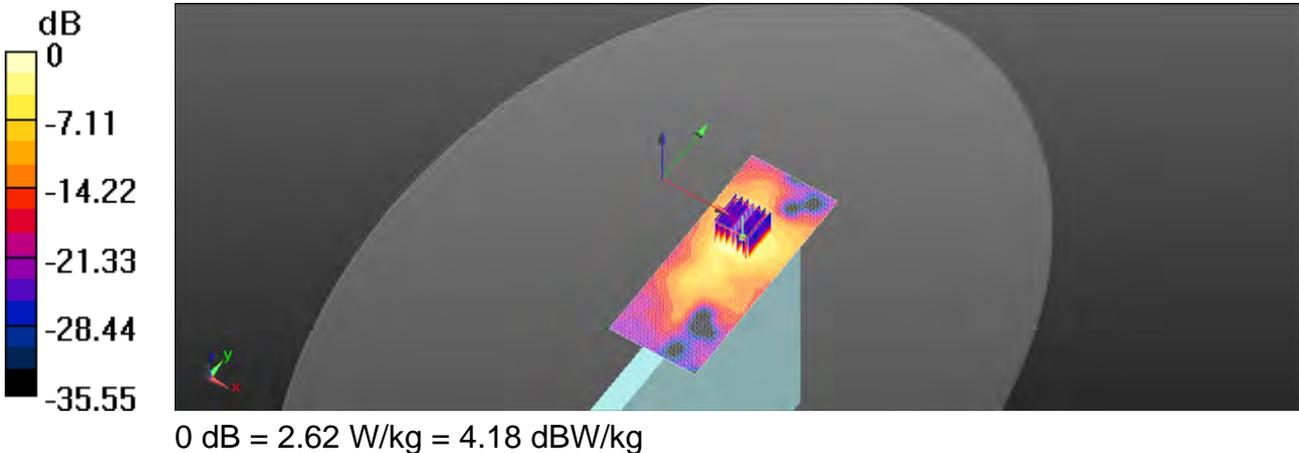
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.273 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 9.02 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.347 W/kg

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



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Date: 2017/11/6

WLAN 802.11b_Tablet mode_Top side_CH 2_Aux_0mm

Communication System: WLAN 2.4G; Frequency: 2417 MHz

Medium parameters used: $f = 2417 \text{ MHz}$; $\sigma = 1.871 \text{ S/m}$; $\epsilon_r = 53.065$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.655 W/kg

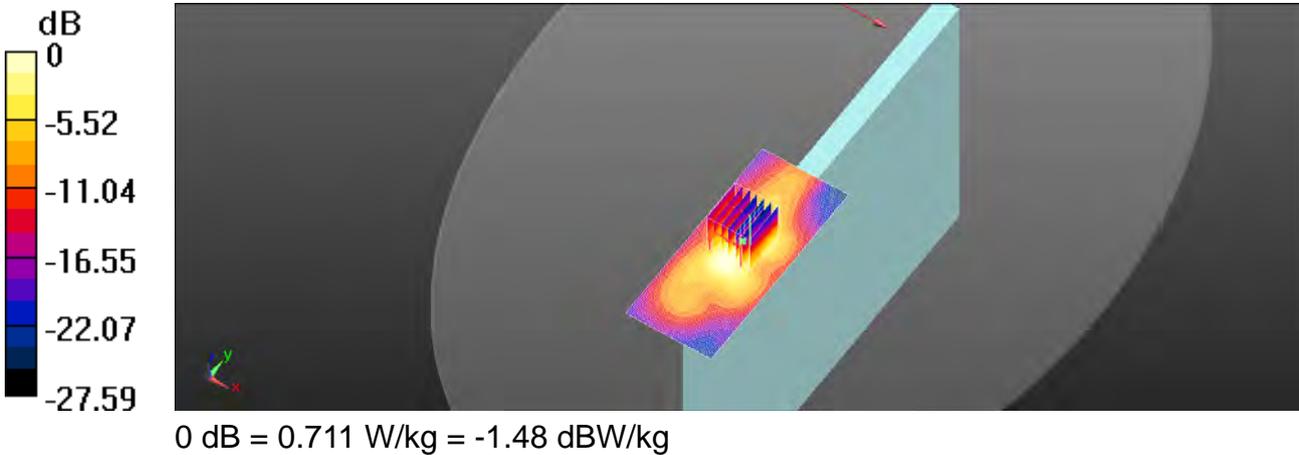
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.466 V/m ; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.420 W/kg ; SAR(10 g) = 0.200 W/kg

Maximum value of SAR (measured) = 0.711 W/kg



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Date: 2017/11/6

WLAN 802.11n(40M)_Tablet mode_Top side_CH 6_Aux_0mm

Communication System: WLAN 2.4G; Frequency: 2437 MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.883$ S/m; $\epsilon_r = 52.926$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.691 W/kg

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

Reference Value = 4.135 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 0.779 W/kg

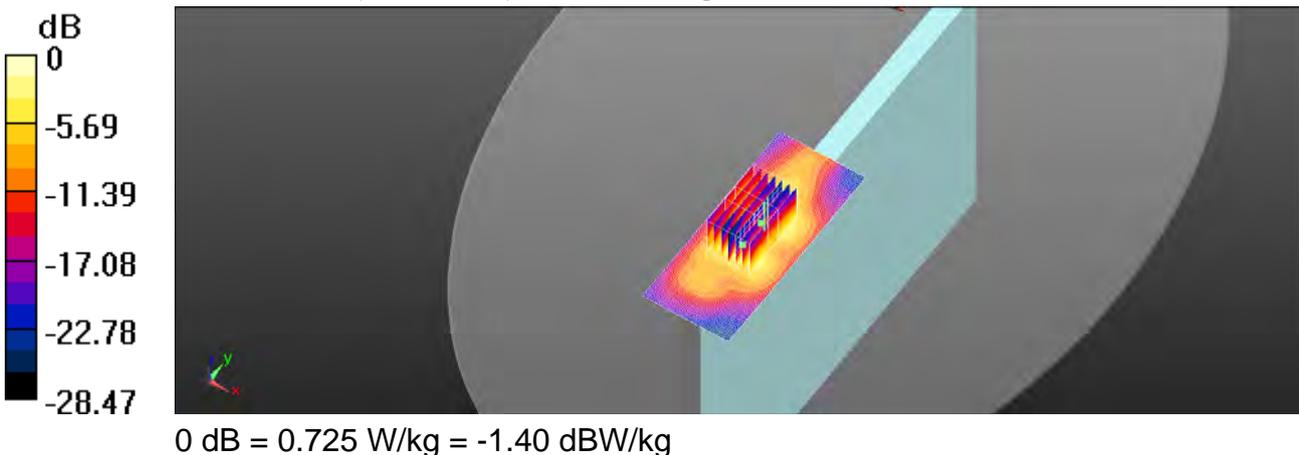
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.135 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.725 W/kg



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Date: 2017/11/6

Bluetooth(GFSK)_Tablet mode_Top side_CH 39_Aux_0mm

Communication System: Bluetooth; Frequency: 2441 MHz

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.887$ S/m; $\epsilon_r = 52.973$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.103 W/kg

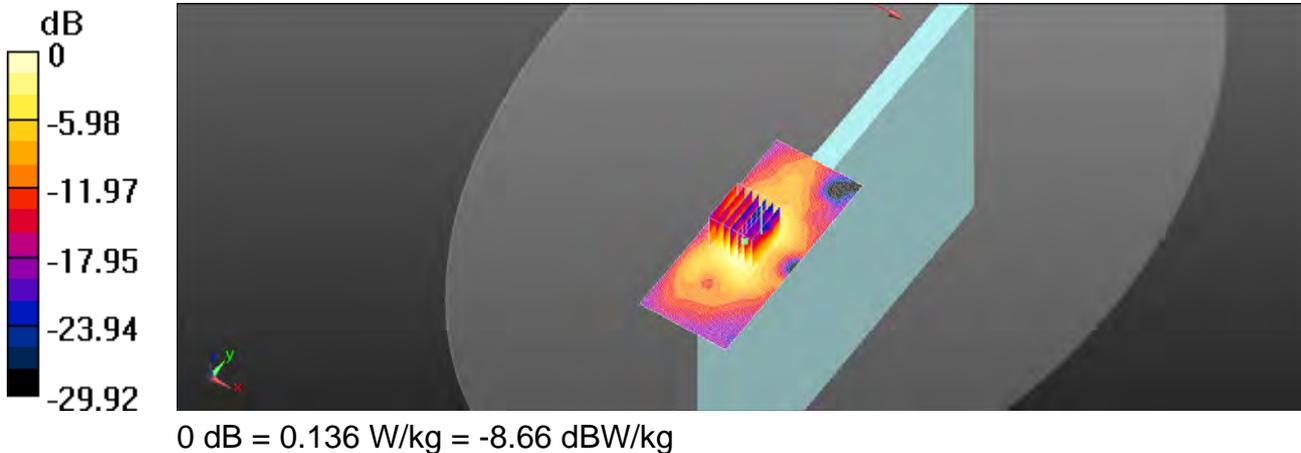
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.201 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.136 W/kg



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Date: 2017/11/7

WLAN 802.11n(40M) 5.2G Tablet mode_Top side_CH 46_Aux_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 5.17 \text{ S/m}$; $\epsilon_r = 50.088$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.78 W/kg

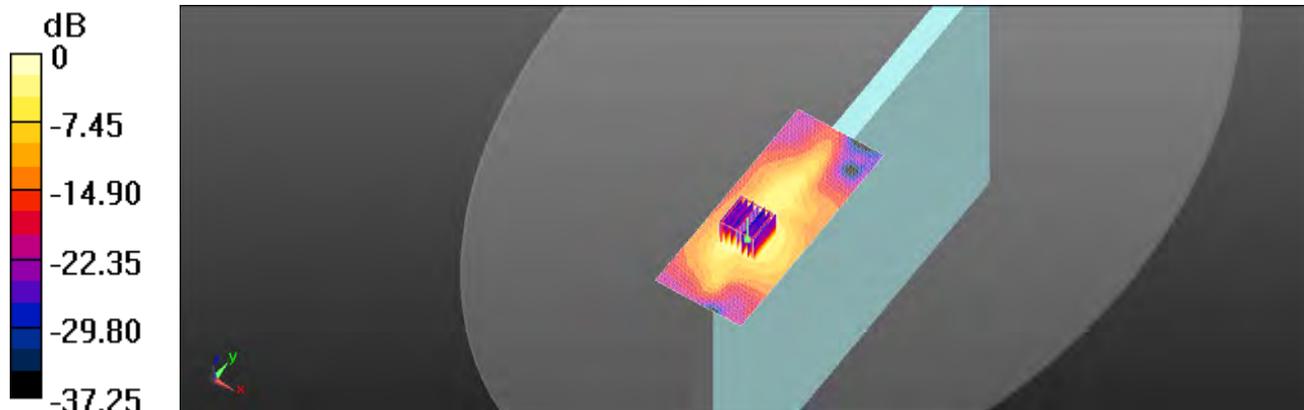
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.424 V/m ; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 6.36 W/kg

SAR(1 g) = 0.999 W/kg ; SAR(10 g) = 0.296 W/kg

Maximum value of SAR (measured) = 2.21 W/kg



0 dB = $2.21 \text{ W/kg} = 3.44 \text{ dBW/kg}$

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Date: 2017/11/8

WLAN 802.11a 5.3G Tablet mode Top side CH 60 Aux 0mm

Communication System: WLAN 5G; Frequency: 5300 MHz

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.285 \text{ S/m}$; $\epsilon_r = 49.861$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.05 W/kg

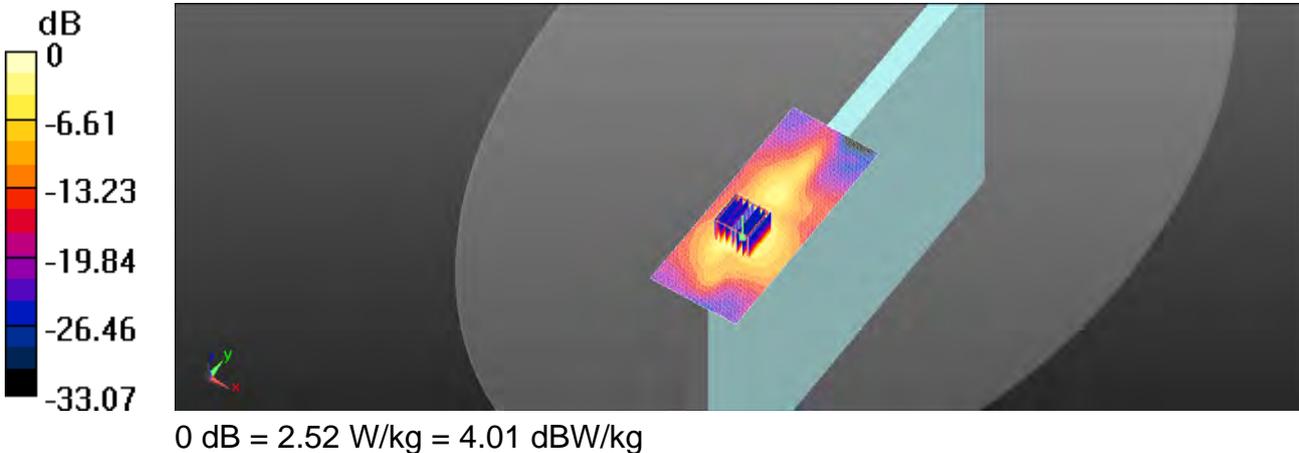
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.601 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 7.60 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.341 W/kg

Maximum value of SAR (measured) = 2.52 W/kg



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Date: 2017/11/8

WLAN 802.11n(40M) 5.3G Tablet mode_Top side_CH 54_Aux_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 5.236 \text{ S/m}$; $\epsilon_r = 49.936$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.98 W/kg

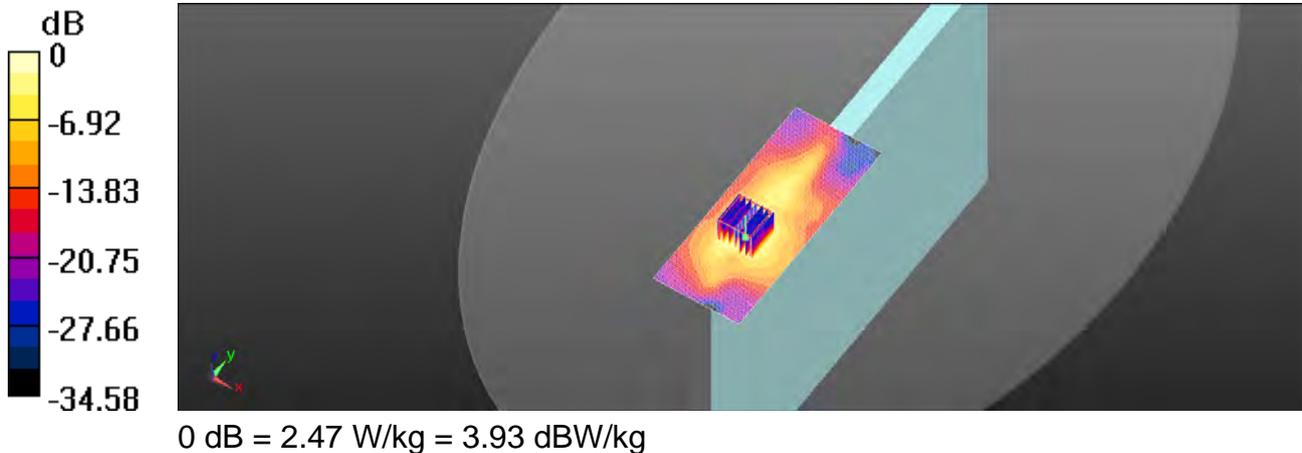
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.613 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 6.09 W/kg

SAR(1 g) = 1.10 W/kg; SAR(10 g) = 0.325 W/kg

Maximum value of SAR (measured) = 2.47 W/kg



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Date: 2017/11/9

WLAN 802.11n(40M) 5.6G Tablet mode_Top side_CH 110_Aux_0mm

Communication System: WLAN 5G; Frequency: 5550 MHz

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.684 \text{ S/m}$; $\epsilon_r = 49.086$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.19 W/kg

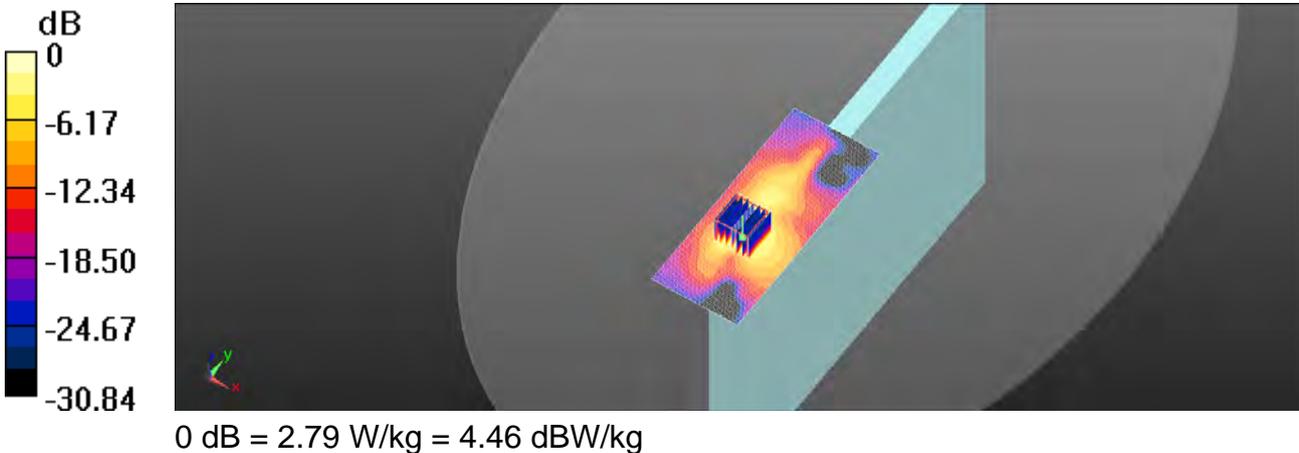
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.392 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 7.12 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.355 W/kg

Maximum value of SAR (measured) = 2.79 W/kg



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Date: 2017/11/9

WLAN 802.11ac(80M) 5.6G Tablet mode_Top side_CH 138_Aux_0mm

Communication System: WLAN 5G; Frequency: 5690 MHz

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.925 \text{ S/m}$; $\epsilon_r = 48.68$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.96 W/kg

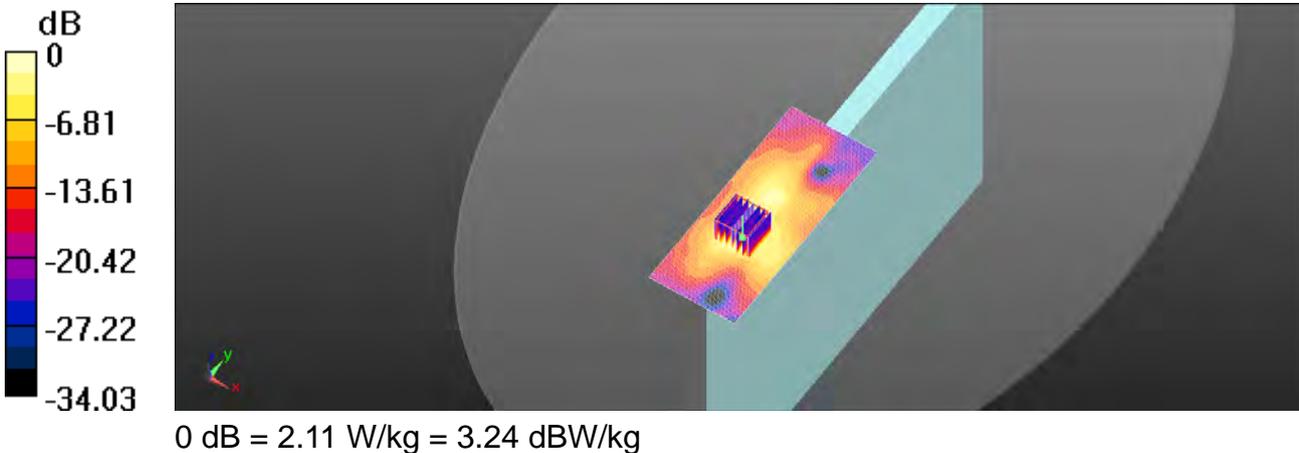
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.010 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 5.46 W/kg

SAR(1 g) = 0.930 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 2.11 W/kg



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Date: 2017/11/10

WLAN 802.11n(40M) 5.8G Tablet mode_Top side_CH 159_Aux_0mm

Communication System: WLAN 5G; Frequency: 5795 MHz

Medium parameters used: $f = 5795 \text{ MHz}$; $\sigma = 6.099 \text{ S/m}$; $\epsilon_r = 48.39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.14 W/kg

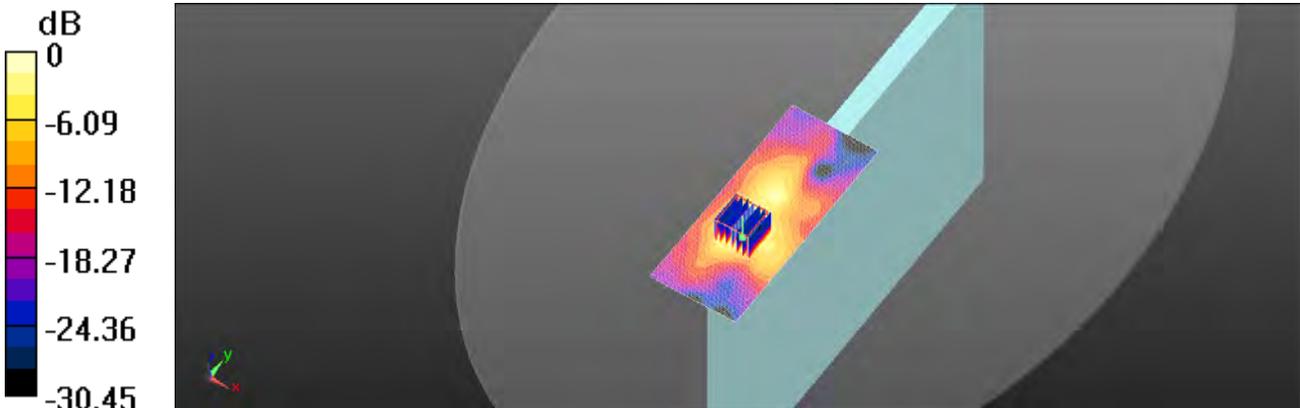
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.680 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 5.80 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.300 W/kg

Maximum value of SAR (measured) = 2.21 W/kg



0 dB = 2.21 W/kg = 3.44 dBW/kg

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Date: 2017/11/6

WLAN 802.11b_Tent mode_Tent_CH 1_Main_0mm

Communication System: WLAN 2.4G; Frequency: 2412 MHz

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.847 \text{ S/m}$; $\epsilon_r = 53.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.47 W/kg

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

Reference Value = 4.648 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 0.634 W/kg ; SAR(10 g) = 0.327 W/kg

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

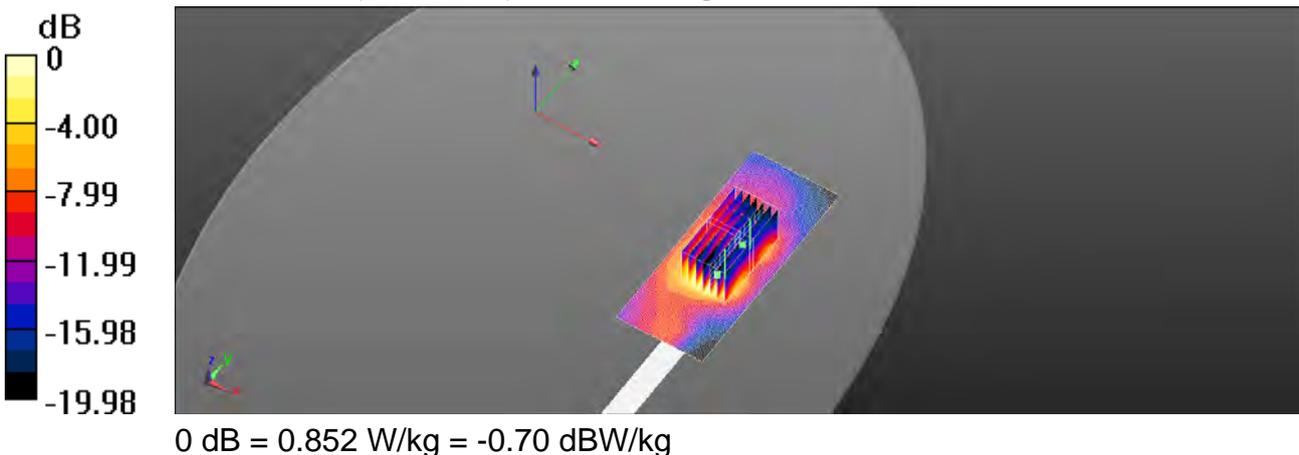
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.648 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.517 W/kg ; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 0.852 W/kg



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Date: 2017/11/6

WLAN 802.11n(40M)_Tent mode_Tent_CH 6_Main_0mm

Communication System: WLAN 2.4G; Frequency: 2437 MHz

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.883 \text{ S/m}$; $\epsilon_r = 52.926$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.71 W/kg

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

Reference Value = 4.794 V/m ; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 0.684 W/kg ; SAR(10 g) = 0.347 W/kg

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

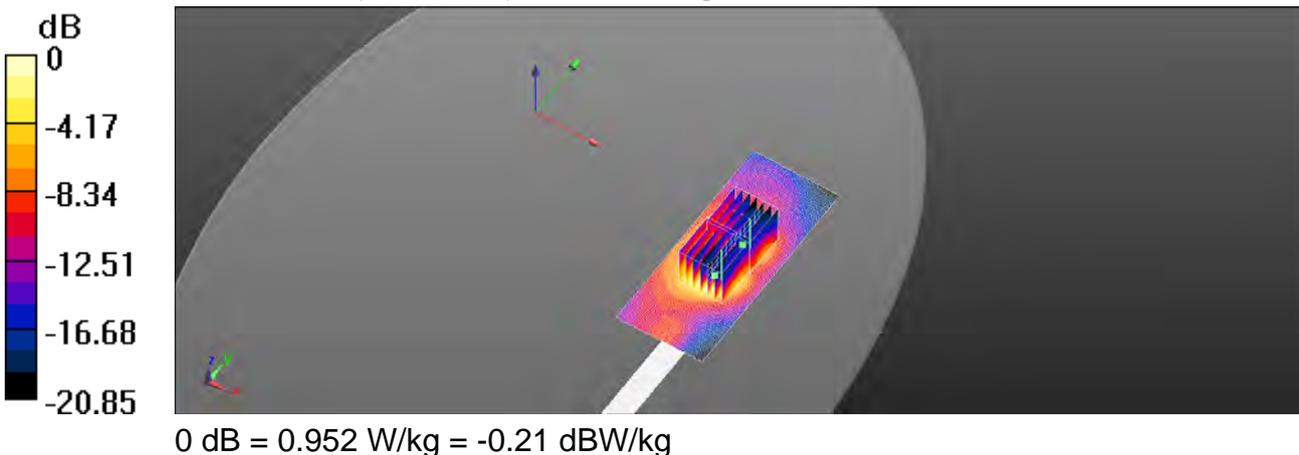
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.794 V/m ; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.537 W/kg ; SAR(10 g) = 0.302 W/kg

Maximum value of SAR (measured) = 0.952 W/kg



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Date: 2017/11/7

WLAN 802.11n(40M) 5.2G Tent mode Tent_CH 46 Main_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 5.17 \text{ S/m}$; $\epsilon_r = 50.088$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.41 W/kg

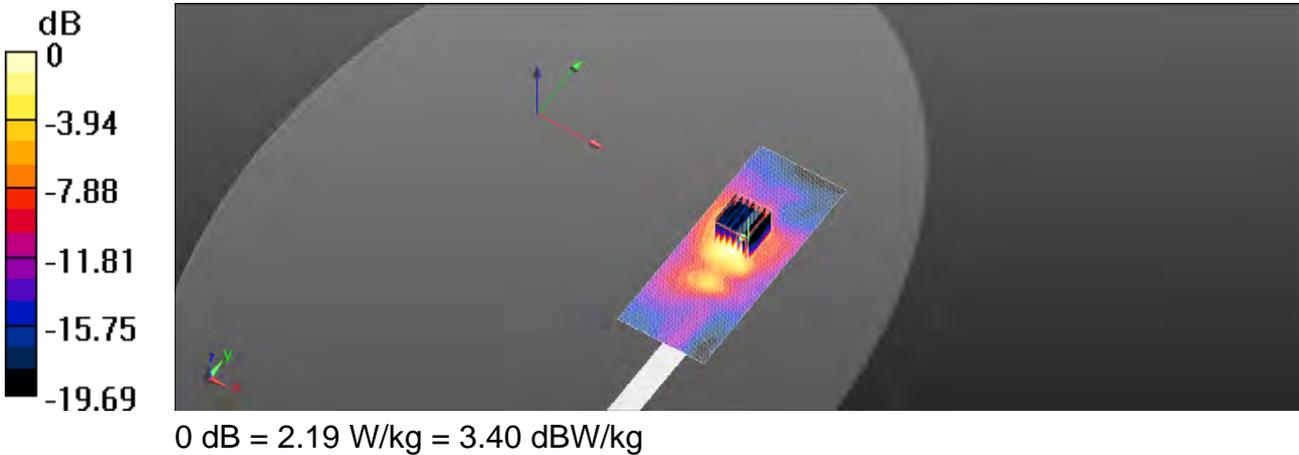
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.309 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 6.22 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.417 W/kg

Maximum value of SAR (measured) = 2.19 W/kg



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Date: 2017/11/8

WLAN 802.11a 5.3G Tent mode Tent CH 52 Main 0mm

Communication System: WLAN 5G; Frequency: 5260 MHz

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.217 \text{ S/m}$; $\epsilon_r = 49.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.34 W/kg

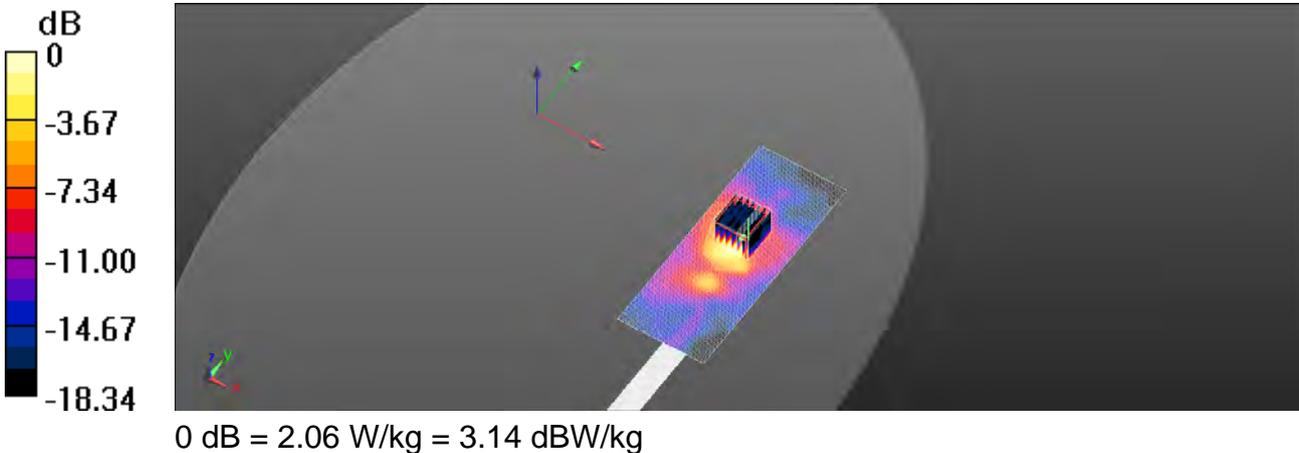
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.813 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 5.64 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.393 W/kg

Maximum value of SAR (measured) = 2.06 W/kg



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Date: 2017/11/8

WLAN 802.11n(40M) 5.3G Tent mode Tent_CH 54 Main_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 5.236 \text{ S/m}$; $\epsilon_r = 49.936$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.34 W/kg

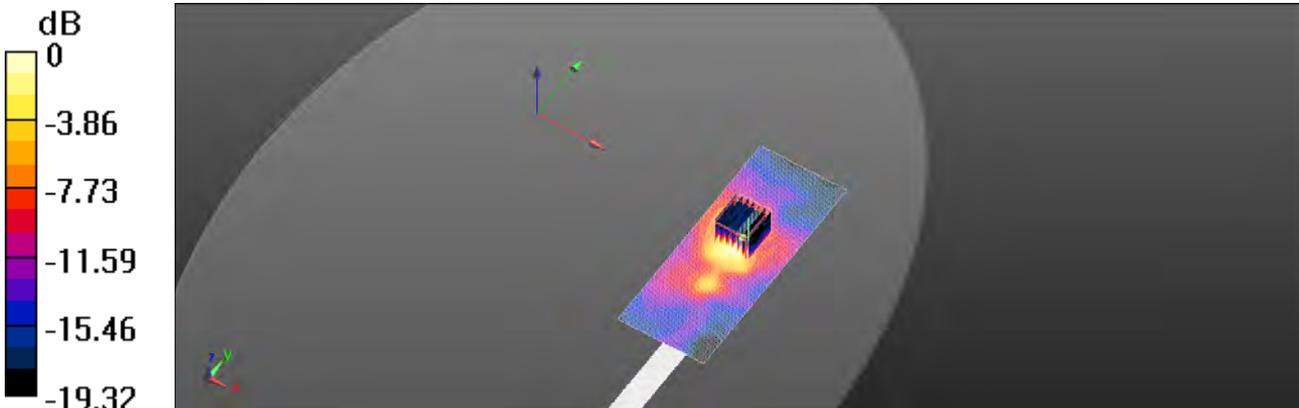
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.111 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 5.57 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.388 W/kg

Maximum value of SAR (measured) = 2.10 W/kg



0 dB = 2.10 W/kg = 3.22 dBW/kg

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Date: 2017/11/9

WLAN 802.11n(40M) 5.6G Tent mode Tent_CH 110_Main_0mm

Communication System: WLAN 5G; Frequency: 5550 MHz

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.684 \text{ S/m}$; $\epsilon_r = 49.086$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.75 W/kg

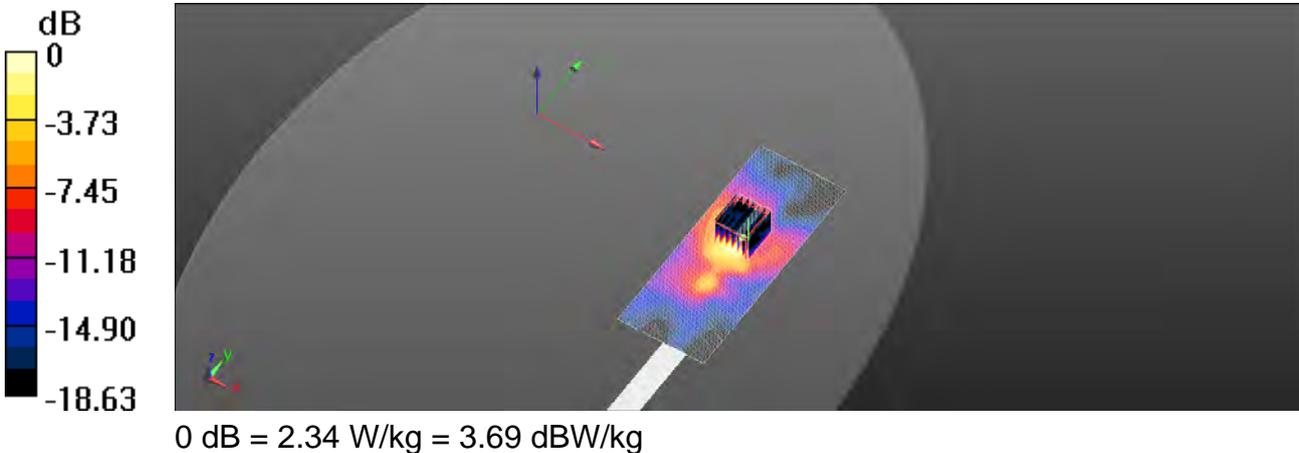
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.550 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 5.20 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.416 W/kg

Maximum value of SAR (measured) = 2.34 W/kg



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Date: 2017/11/9

WLAN 802.11ac(80M) 5.6G Tent mode Tent CH 138 Main 0mm

Communication System: WLAN 5G; Frequency: 5690 MHz

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.925 \text{ S/m}$; $\epsilon_r = 48.68$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.47 W/kg

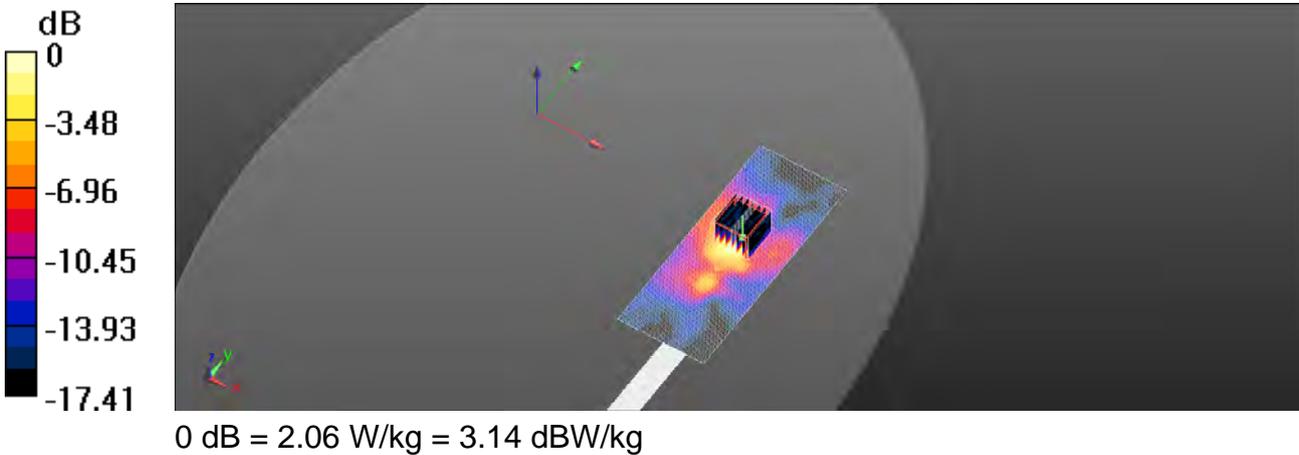
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.935 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 5.54 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.383 W/kg

Maximum value of SAR (measured) = 2.06 W/kg



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Date: 2017/11/10

WLAN 802.11ac(80M) 5.8G Tent mode Tent CH 155 Main 0mm

Communication System: WLAN 5G; Frequency: 5775 MHz

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 6.064 \text{ S/m}$; $\epsilon_r = 48.43$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.58 W/kg

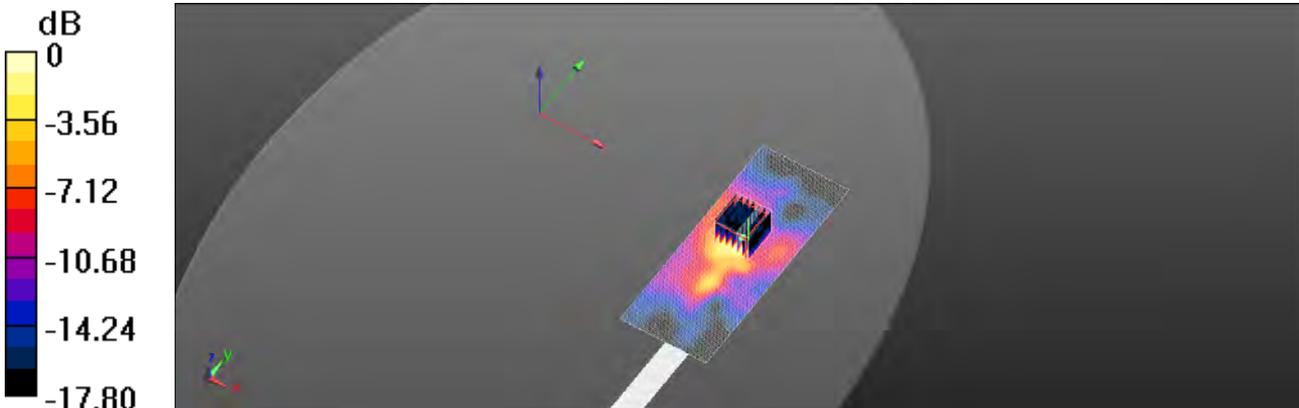
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.261 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 6.12 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.387 W/kg

Maximum value of SAR (measured) = 2.17 W/kg



0 dB = 2.17 W/kg = 3.36 dBW/kg

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Date: 2017/11/6

WLAN 802.11b Tent mode Tent CH 2 Aux 0mm

Communication System: WLAN 2.4G; Frequency: 2417 MHz

Medium parameters used: $f = 2417$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 53.065$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

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

Reference Value = 3.899 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.321 W/kg

Maximum value of SAR (measured) = 1.01 W/kg

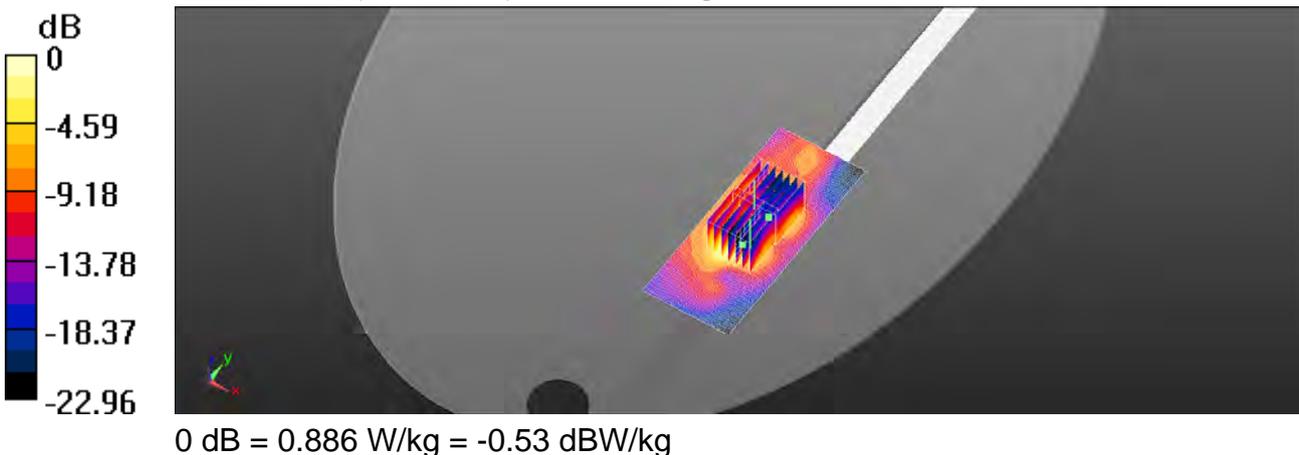
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.899 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.886 W/kg



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Date: 2017/11/6

WLAN 802.11n(40M)_Tent mode_Tent_CH 6_Aux_0mm

Communication System: WLAN 2.4G; Frequency: 2437 MHz

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.883 \text{ S/m}$; $\epsilon_r = 52.926$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.30 W/kg

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

Reference Value = 3.703 V/m ; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.644 W/kg ; SAR(10 g) = 0.317 W/kg

Maximum value of SAR (measured) = 1.02 W/kg

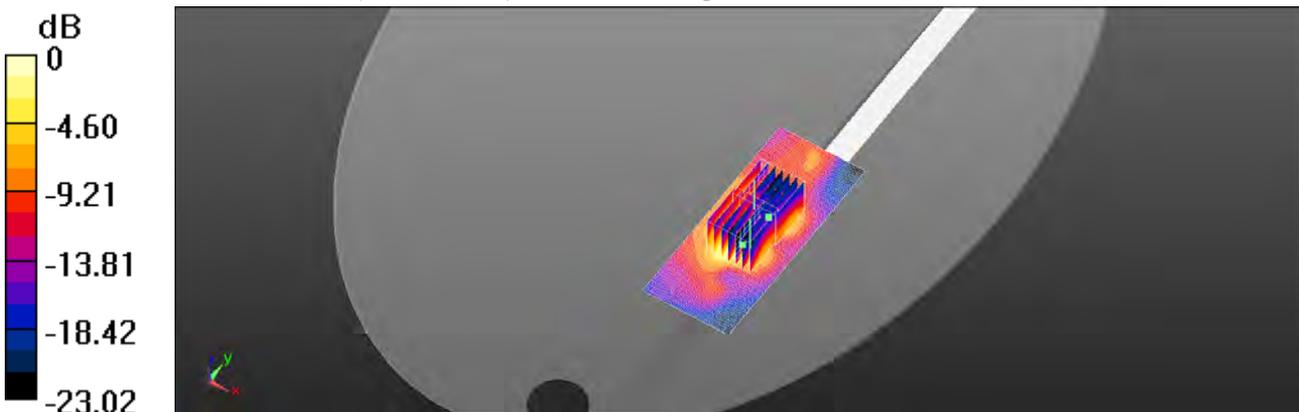
Configuration/Body/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.703 V/m ; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.546 W/kg ; SAR(10 g) = 0.295 W/kg

Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.902 W/kg = -0.45 dBW/kg

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Date: 2017/11/6

Bluetooth(GFSK)_Tent mode_Tent_CH 39_Aux_0mm

Communication System: Bluetooth; Frequency: 2441 MHz

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.887 \text{ S/m}$; $\epsilon_r = 52.973$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

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

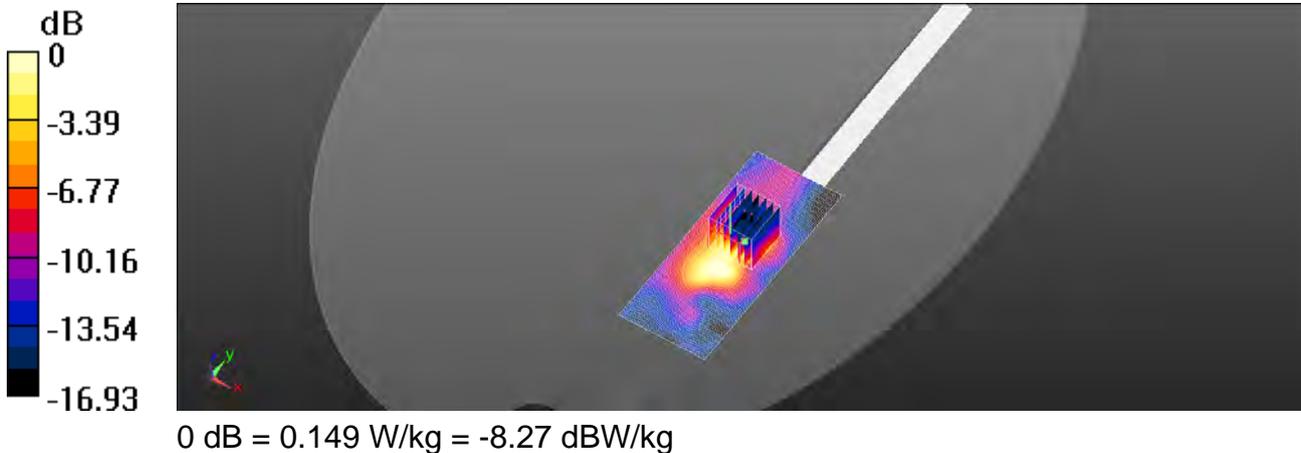
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.526 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.265 W/kg

SAR(1 g) = 0.097 W/kg ; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.149 W/kg



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Date: 2017/11/7

WLAN 802.11n(40M) 5.2G Tent mode Tent CH 46 Aux 0mm

Communication System: WLAN 5G; Frequency: 5230 MHz

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 5.17 \text{ S/m}$; $\epsilon_r = 50.088$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

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

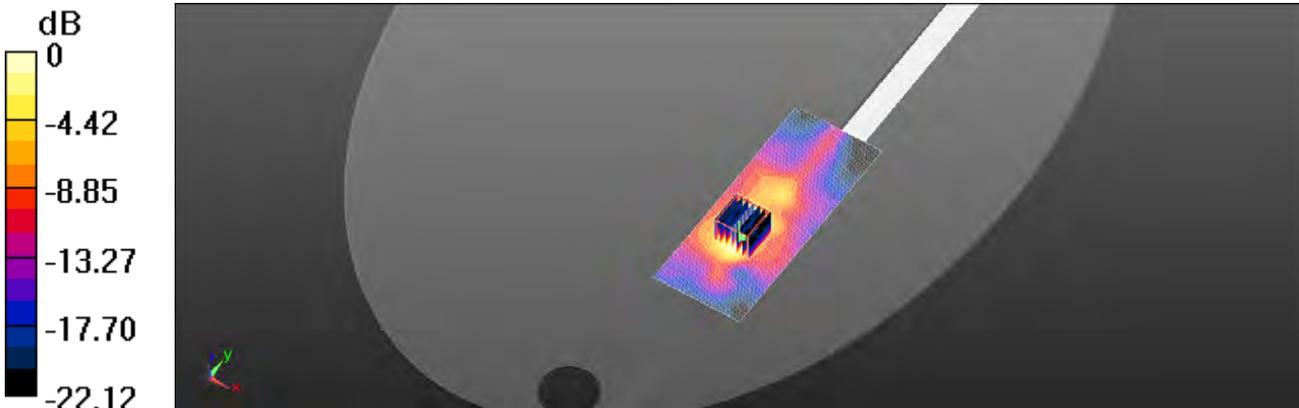
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.727 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 7.32 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.381 W/kg

Maximum value of SAR (measured) = 2.10 W/kg



0 dB = 2.10 W/kg = 3.22 dBW/kg

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Date: 2017/11/8

WLAN 802.11a 5.3G Tent mode Tent CH 60 Aux 0mm

Communication System: WLAN 5G; Frequency: 5300 MHz

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.285 \text{ S/m}$; $\epsilon_r = 49.861$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C ; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.61 W/kg

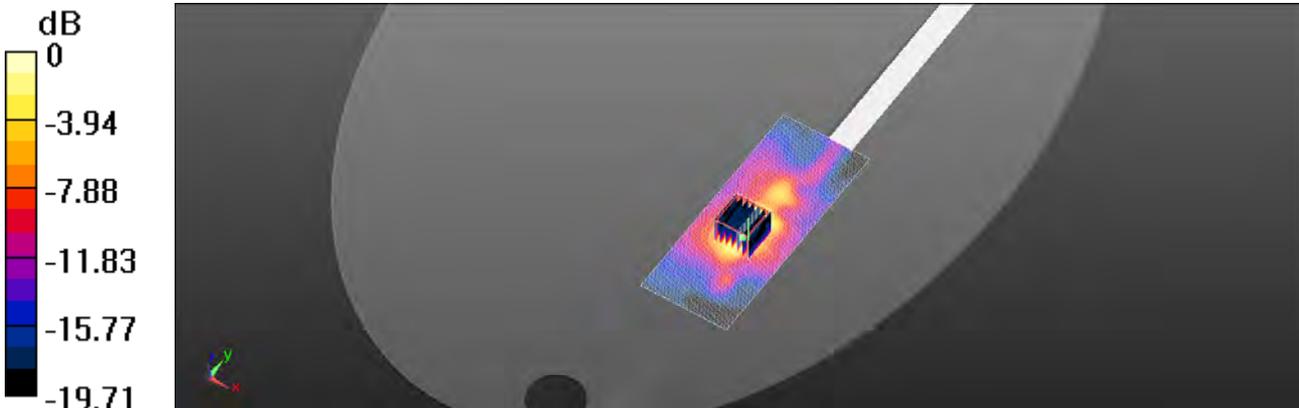
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.681 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 7.39 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.483 W/kg

Maximum value of SAR (measured) = 2.93 W/kg



0 dB = 2.93 W/kg = 4.67 dBW/kg

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Date: 2017/11/8

WLAN 802.11n(40M) 5.3G Tent mode Tent CH 54 Aux 0mm

Communication System: WLAN 5G; Frequency: 5270 MHz

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 5.236 \text{ S/m}$; $\epsilon_r = 49.936$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.54 W/kg

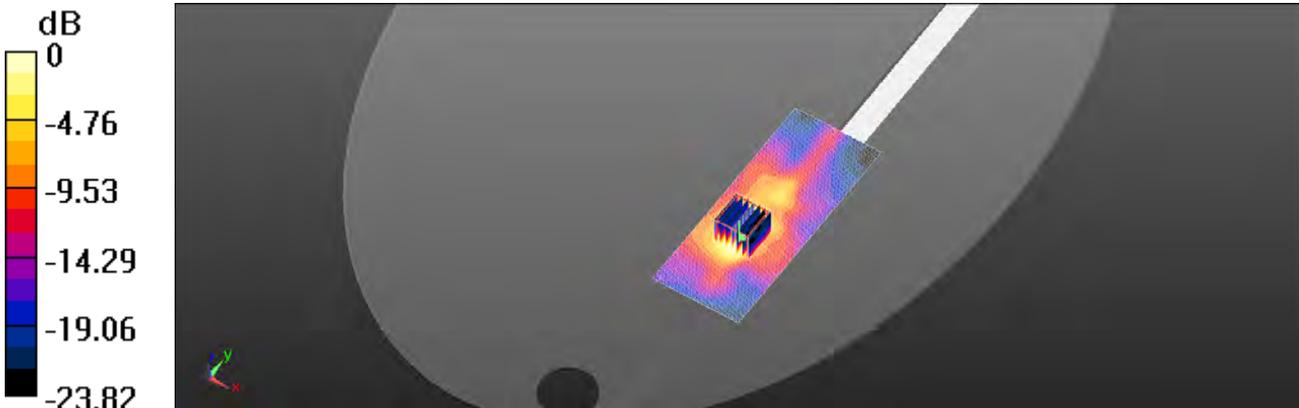
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.677 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 5.44 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.423 W/kg

Maximum value of SAR (measured) = 2.41 W/kg



0 dB = 2.41 W/kg = 3.82 dBW/kg

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Date: 2017/11/9

WLAN 802.11n(40M) 5.6G Tent mode Tent CH 110 Aux 0mm

Communication System: WLAN 5G; Frequency: 5550 MHz
Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.684 \text{ S/m}$; $\epsilon_r = 49.086$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.01°C ; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.61 W/kg

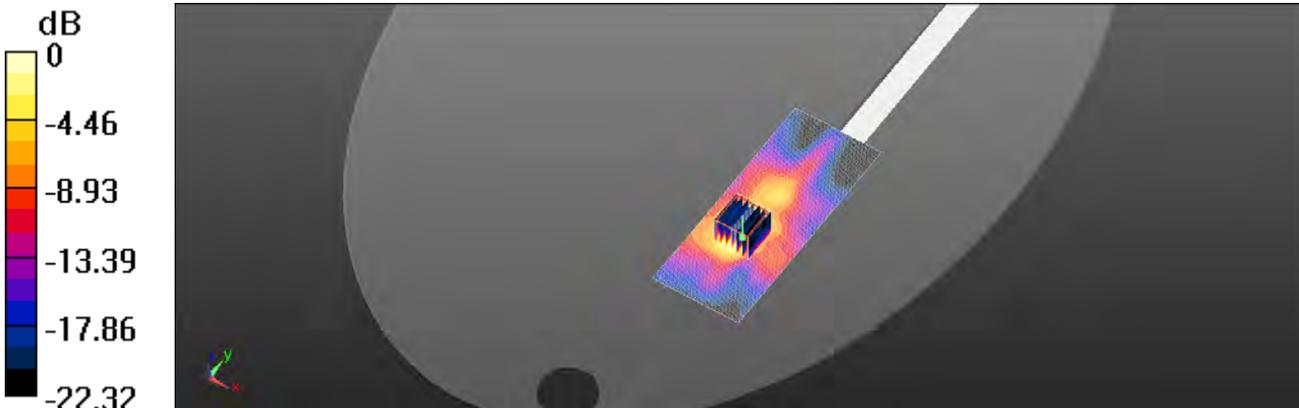
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.459 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 6.12 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.410 W/kg

Maximum value of SAR (measured) = 2.41 W/kg



0 dB = 2.41 W/kg = 3.82 dBW/kg

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Date: 2017/11/9

WLAN 802.11ac(80M) 5.6G Tent mode Tent_CH 138_Aux_0mm

Communication System: WLAN 5G; Frequency: 5690 MHz

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.925 \text{ S/m}$; $\epsilon_r = 48.68$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.28 W/kg

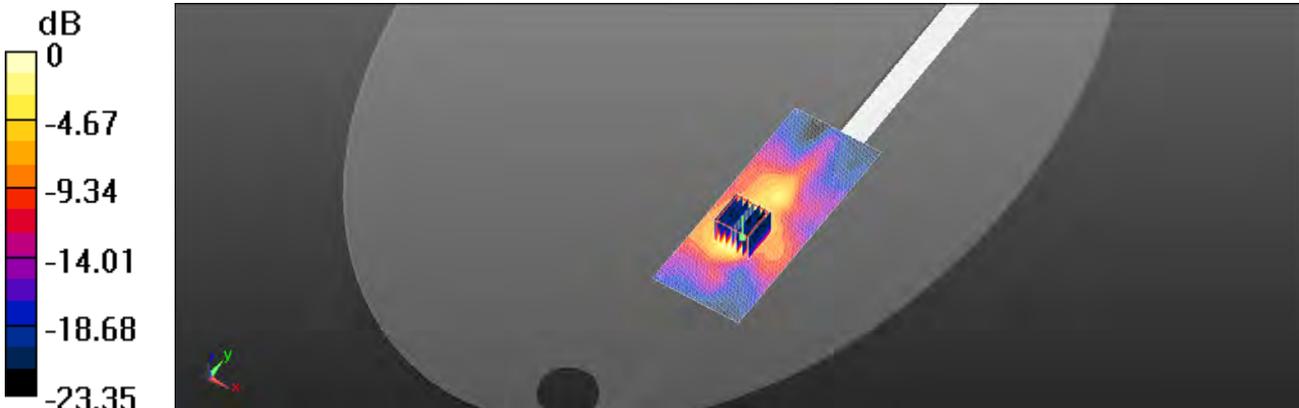
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.881 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 5.71 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.347 W/kg

Maximum value of SAR (measured) = 2.15 W/kg



0 dB = 2.15 W/kg = 3.32 dBW/kg

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Date: 2017/11/10

WLAN 802.11n(40M) 5.8G Tent mode Tent CH 159 Aux 0mm

Communication System: WLAN 5G; Frequency: 5795 MHz

Medium parameters used: $f = 5795 \text{ MHz}$; $\sigma = 6.099 \text{ S/m}$; $\epsilon_r = 48.39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.42 W/kg

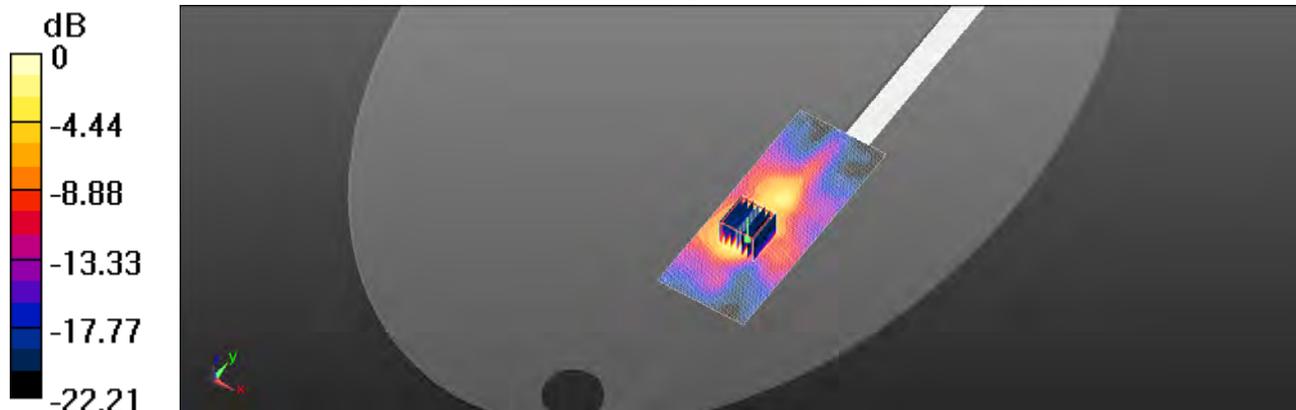
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.279 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 6.77 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.370 W/kg

Maximum value of SAR (measured) = 2.25 W/kg



0 dB = 2.25 W/kg = 3.52 dBW/kg

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Member of SGS Group

Date: 2017/11/6

WLAN 802.11b Stand mode Stand CH 1 Main 0mm

Communication System: WLAN 2.4G; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.847$ S/m; $\epsilon_r = 53.142$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 0.0342 W/kg

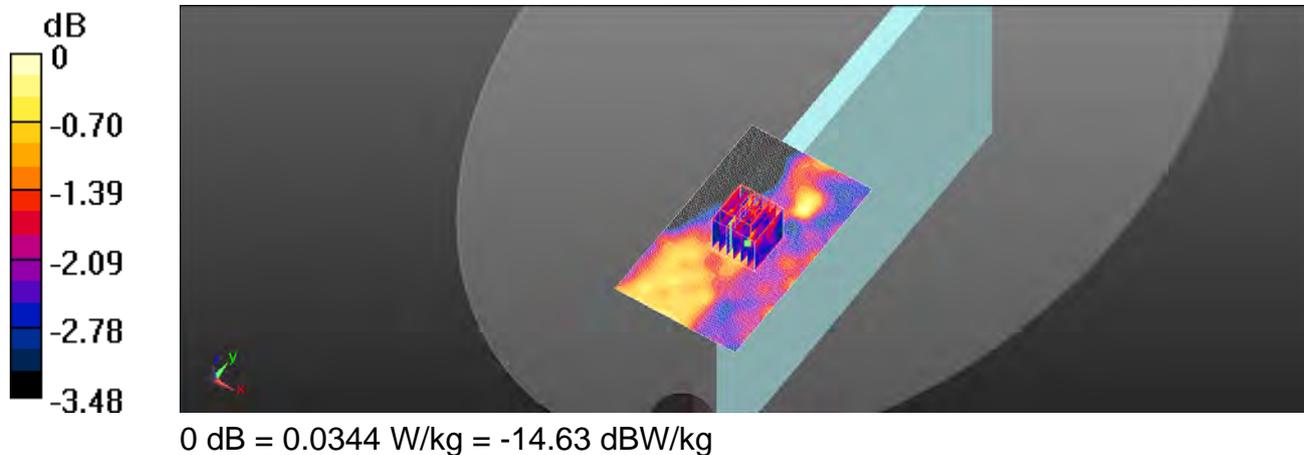
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.209 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0380 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.0344 W/kg



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Date: 2017/11/6

WLAN 802.11g Stand mode Stand CH 2 Main 0mm

Communication System: WLAN 2.4G; Frequency: 2417 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2417 \text{ MHz}$; $\sigma = 1.871 \text{ S/m}$; $\epsilon_r = 53.065$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 0.0268 W/kg

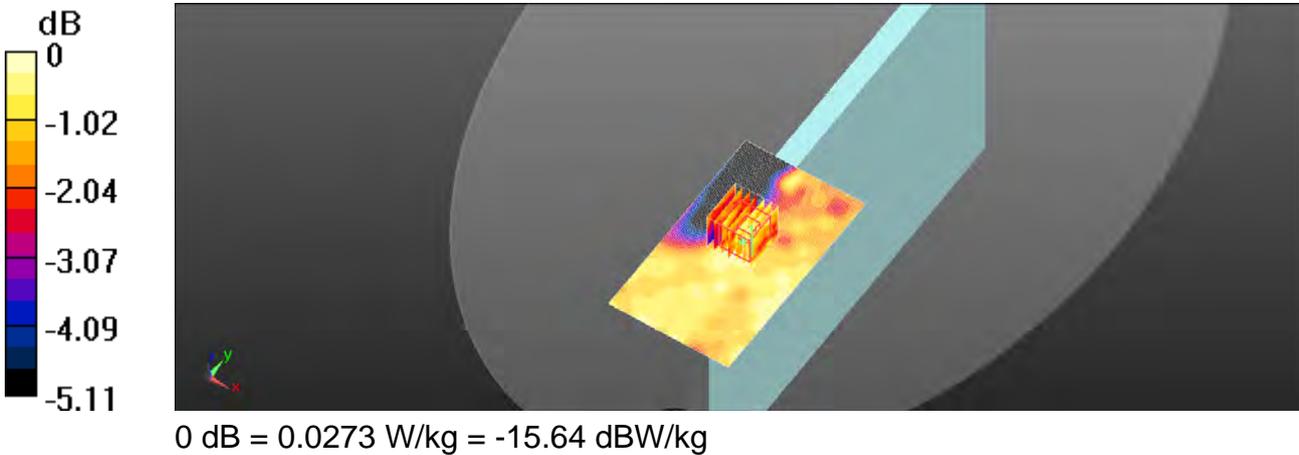
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.041 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0320 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.0273 W/kg



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Date: 2017/11/7

WLAN 802.11a 5.2G Stand mode Stand CH 40 Main 0mm

Communication System: WLAN 5G; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.124$ S/m; $\epsilon_r = 50.178$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0529 W/kg

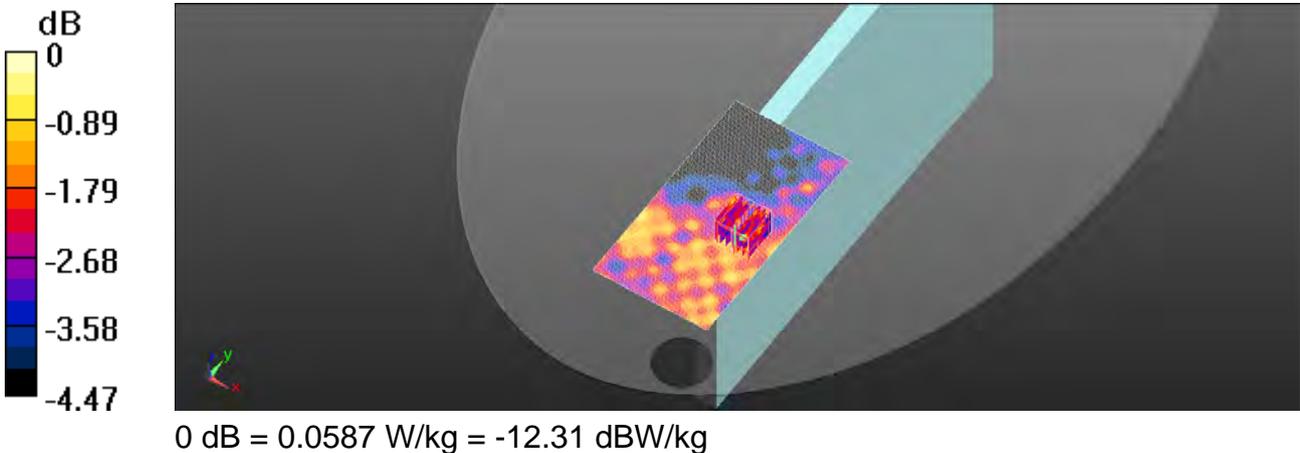
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.642 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.0587 W/kg



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Date: 2017/11/7

WLAN 802.11n(40M) 5.2G Stand mode Stand CH 46 Main 0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 5.17 \text{ S/m}$; $\epsilon_r = 50.088$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0465 W/kg

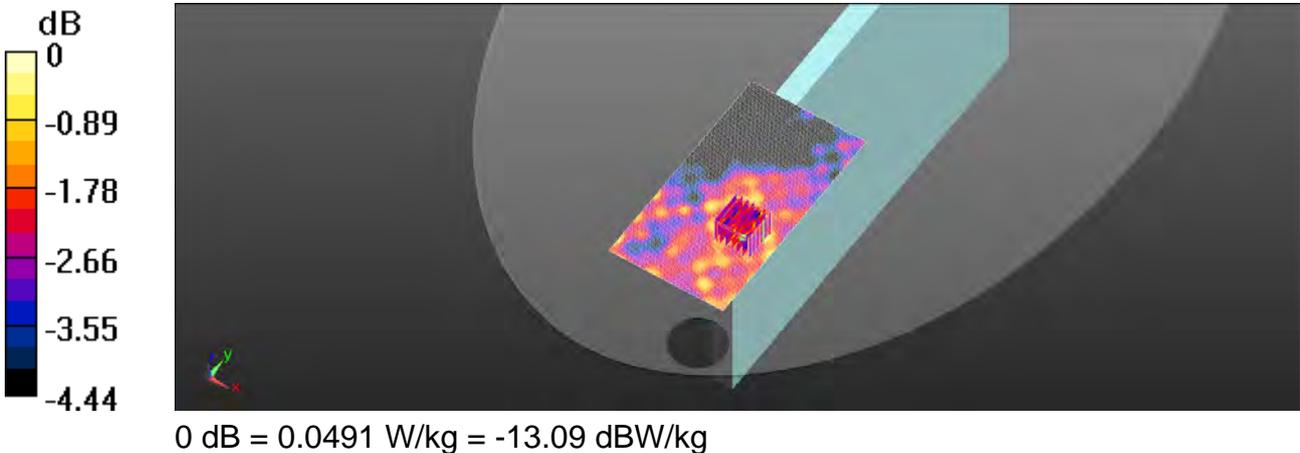
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.264 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.0870 W/kg

SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0491 W/kg



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Date: 2017/11/8

WLAN 802.11a 5.3G Stand mode Stand CH 60 Main 0mm

Communication System: WLAN 5G; Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.285 \text{ S/m}$; $\epsilon_r = 49.861$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0810 W/kg

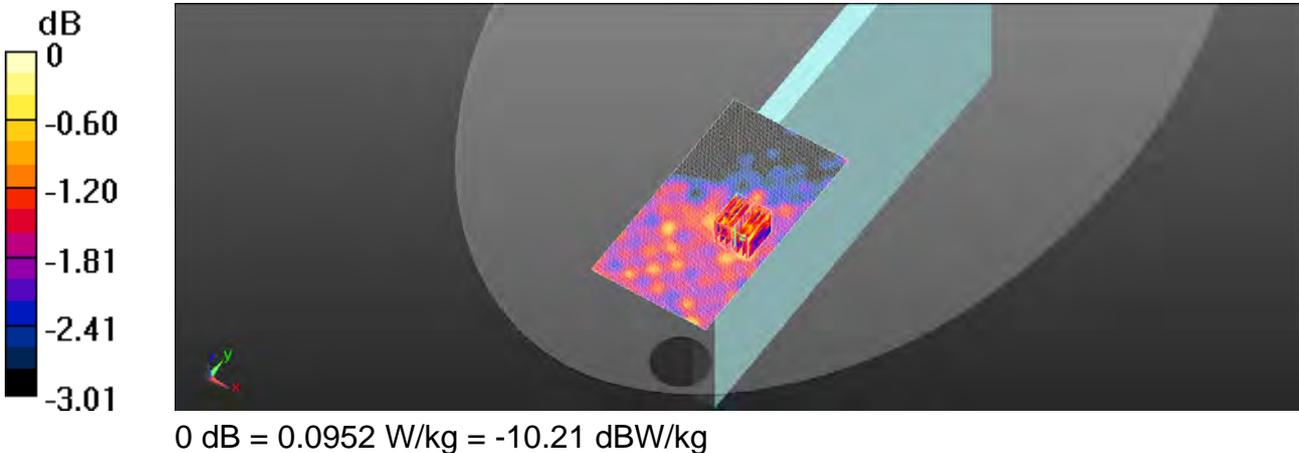
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.638 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.129 W/kg

SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.0952 W/kg



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Date: 2017/11/8

WLAN 802.11n(40M) 5.3G Stand mode Stand CH 54 Main 0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 5.236 \text{ S/m}$; $\epsilon_r = 49.936$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0448 W/kg

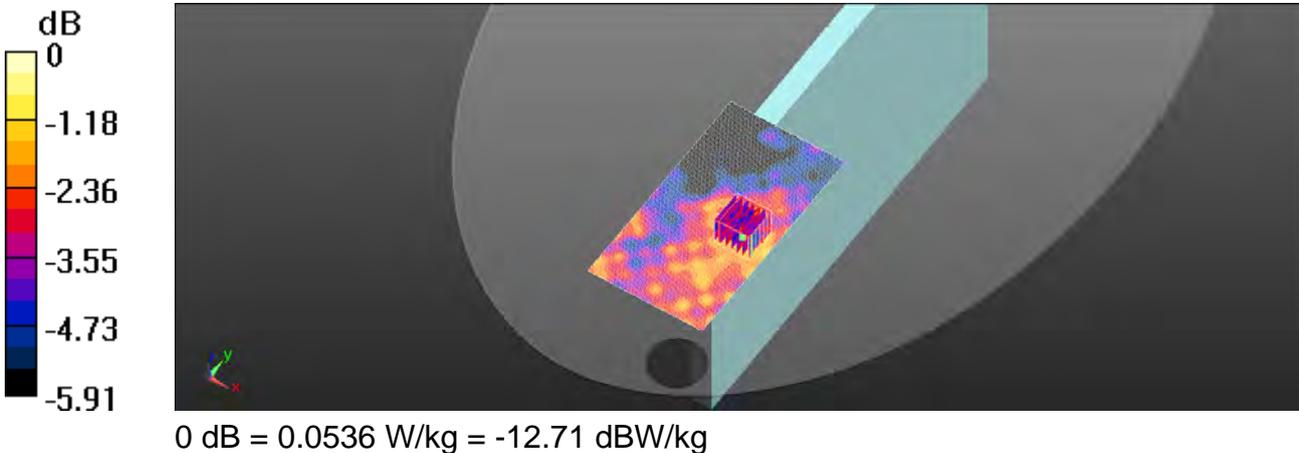
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.081 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0990 W/kg

SAR(1 g) = 0.035 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.0536 W/kg



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Date: 2017/11/9

WLAN 802.11n(40M) 5.6G Stand mode Stand CH 110 Main 0mm

Communication System: WLAN 5G; Frequency: 5550 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.684 \text{ S/m}$; $\epsilon_r = 49.086$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.1°C ; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0550 W/kg

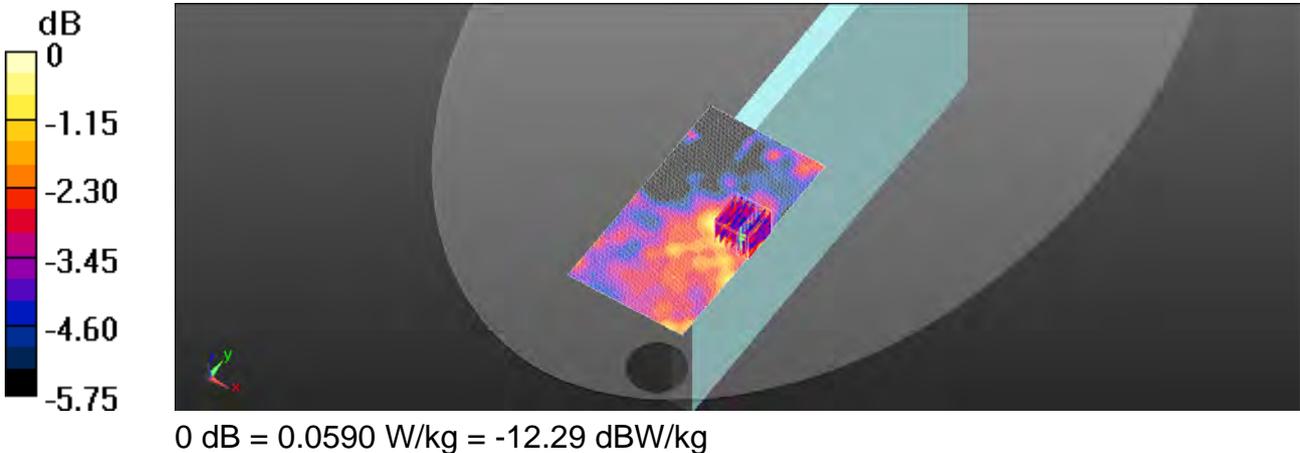
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.384 V/m ; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.130 W/kg

SAR(1 g) = 0.037 W/kg ; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0590 W/kg



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Date: 2017/11/9

WLAN 802.11ac(80M) 5.6G Stand mode Stand CH 138 Main 0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.925 \text{ S/m}$; $\epsilon_r = 48.68$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0909 W/kg

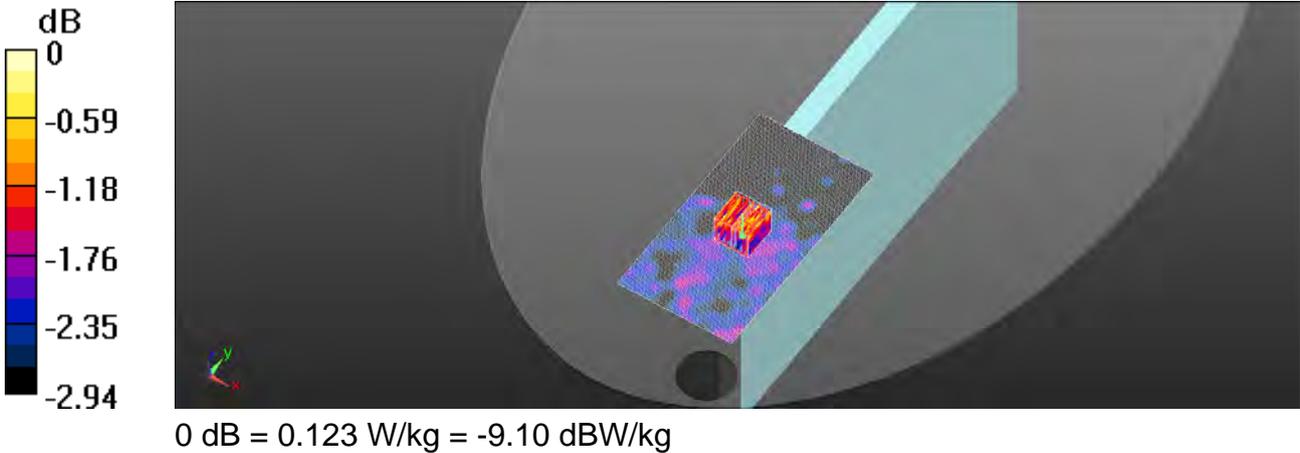
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.171 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.087 W/kg

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



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Date: 2017/11/10

WLAN 802.11n(40M) 5.8G Stand mode Stand_CH 151_Main_0mm

Communication System: WLAN 5G; Frequency: 5755 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 6.024 \text{ S/m}$; $\epsilon_r = 48.496$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0616 W/kg

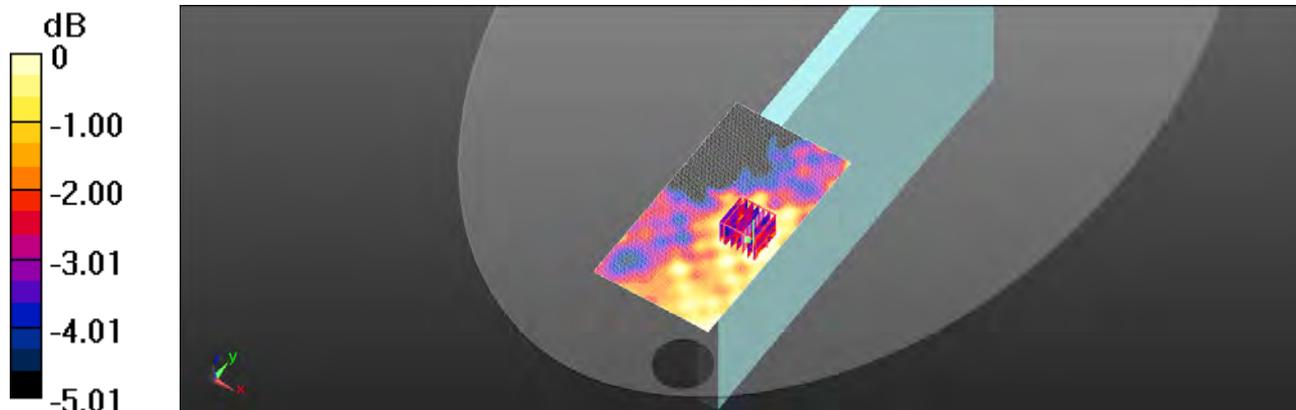
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.146 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0920 W/kg

SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0518 W/kg



0 dB = 0.0518 W/kg = -12.86 dBW/kg

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Date: 2017/11/6

WLAN 802.11b Stand mode Stand CH 2 Aux 0mm

Communication System: WLAN 2.4G; Frequency: 2417 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2417 \text{ MHz}$; $\sigma = 1.871 \text{ S/m}$; $\epsilon_r = 53.065$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (71x151x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0161 W/kg

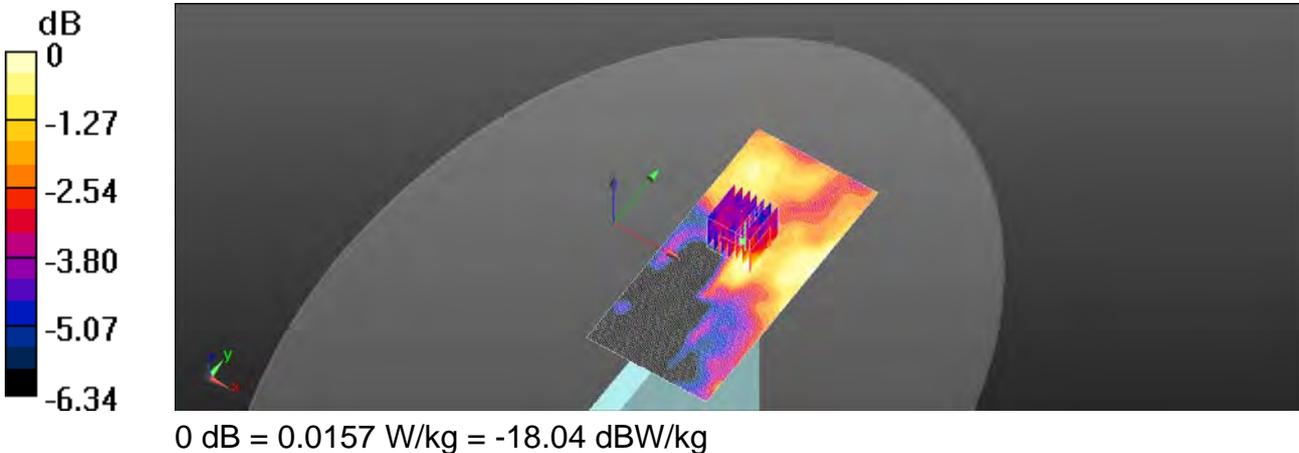
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.408 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0230 W/kg

SAR(1 g) = 0.012 W/kg ; SAR(10 g) = 0.00869 W/kg

Maximum value of SAR (measured) = 0.0157 W/kg



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Date: 2017/11/6

WLAN 802.11g Stand mode Stand CH 2 Aux 0mm

Communication System: WLAN 2.4G; Frequency: 2417 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2417 \text{ MHz}$; $\sigma = 1.871 \text{ S/m}$; $\epsilon_r = 53.065$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.5°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x151x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0201 W/kg

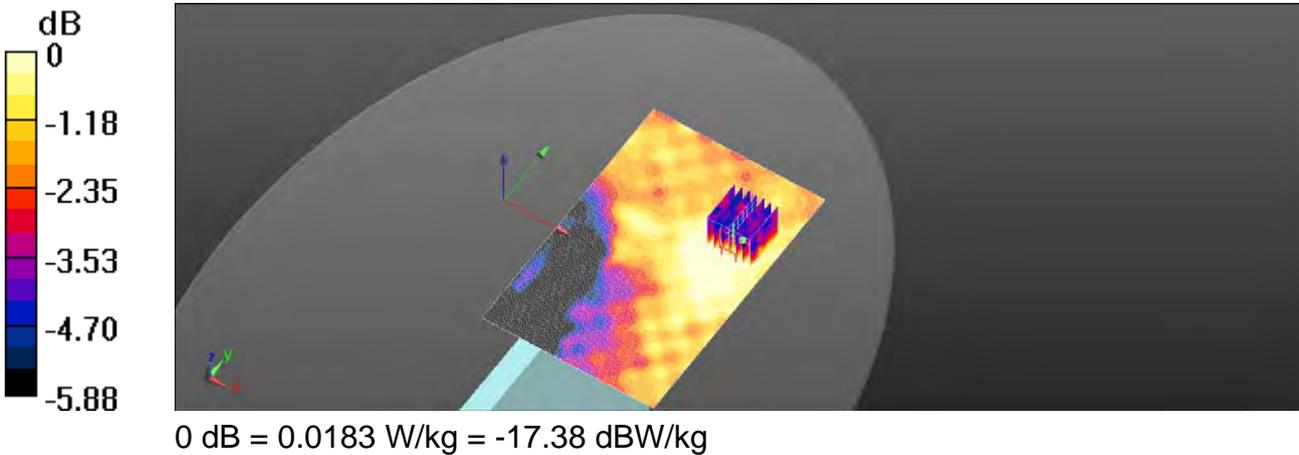
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.956 V/m ; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0230 W/kg

SAR(1 g) = 0.014 W/kg ; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0183 W/kg



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Date: 2017/11/6

Bluetooth Stand mode Stand CH 39 Aux 0mm

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2441$ MHz; $\sigma = 1.887$ S/m; $\epsilon_r = 52.973$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (101x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.00465 W/kg

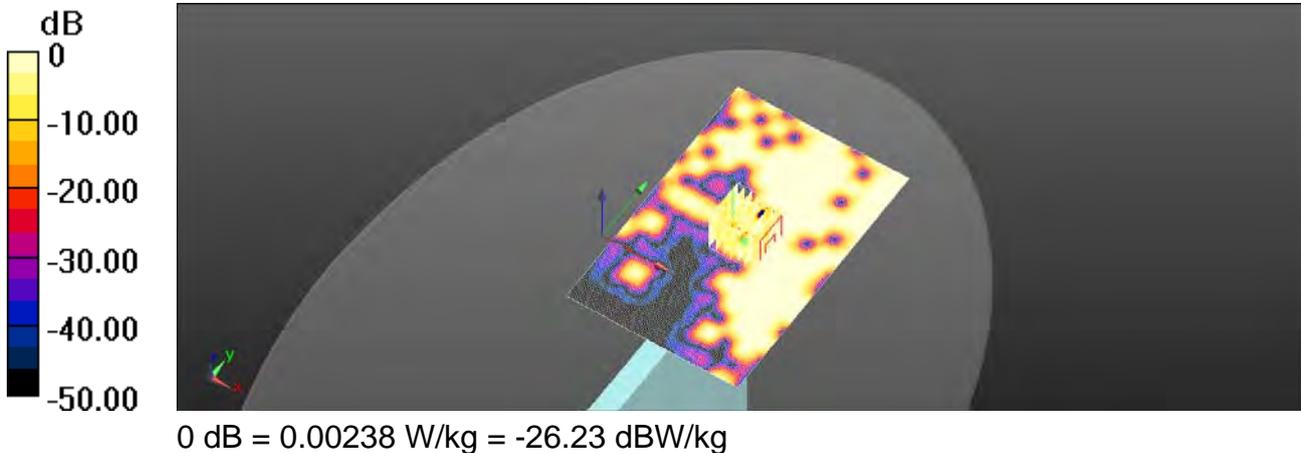
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.419 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.00517 W/kg

SAR(1 g) = 0.000733 W/kg; SAR(10 g) = 0.000244 W/kg

Maximum value of SAR (measured) = 0.00238 W/kg



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Date: 2017/11/7

WLAN 802.11a 5.2G Stand mode Stand CH 44 Aux 0mm

Communication System: WLAN 5G; Frequency: 5220 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.156 \text{ S/m}$; $\epsilon_r = 50.117$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.8°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x181x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0465 W/kg

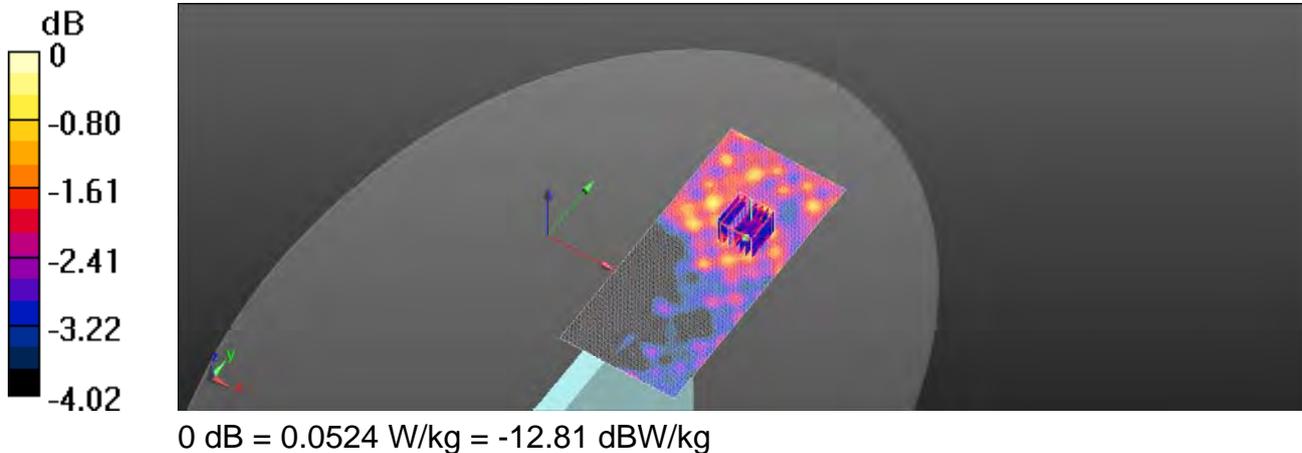
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.435 V/m ; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.0860 W/kg

SAR(1 g) = 0.036 W/kg ; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0524 W/kg



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Date: 2017/11/7

WLAN 802.11n(40M) 5.2G Stand mode Stand CH 46 Aux 0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 5.17 \text{ S/m}$; $\epsilon_r = 50.088$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0443 W/kg

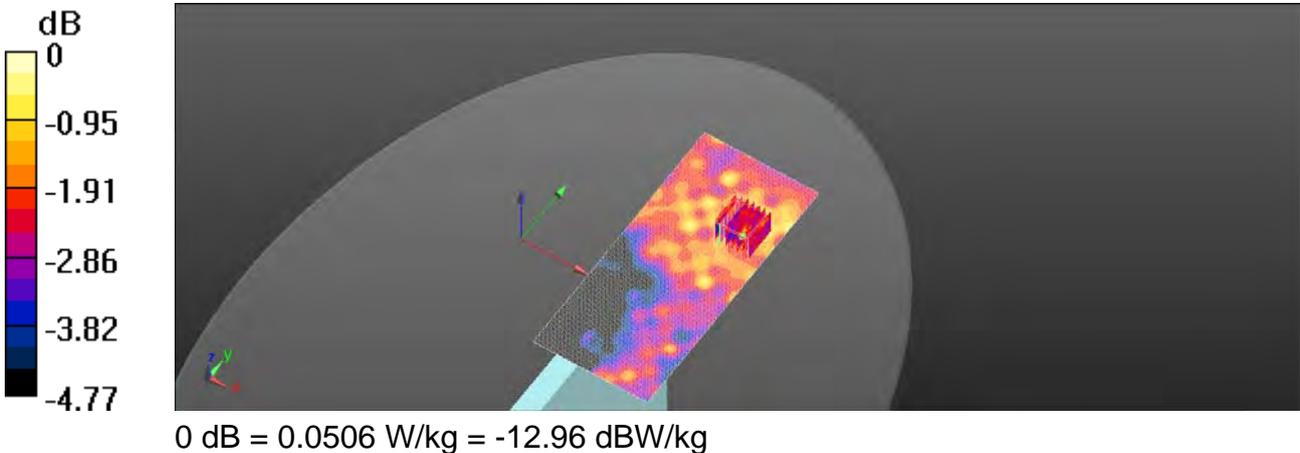
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.861 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.0790 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0506 W/kg



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Date: 2017/11/8

WLAN 802.11a 5.3G Stand mode Stand CH 52 Aux 0mm

Communication System: WLAN 5G; Frequency: 5260 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.217 \text{ S/m}$; $\epsilon_r = 49.971$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.2°C ; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x181x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0516 W/kg

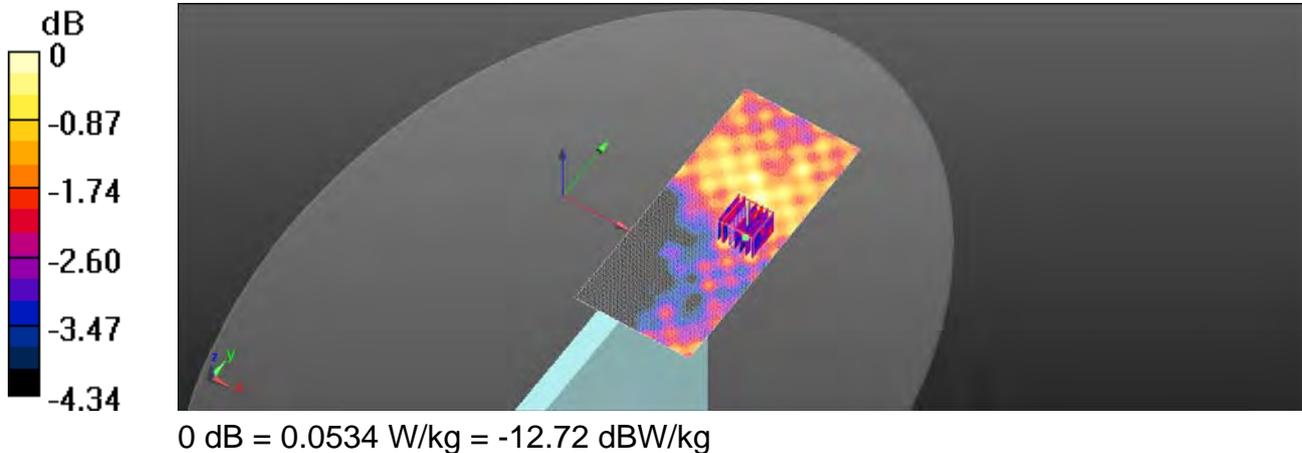
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.635 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.100 W/kg

SAR(1 g) = 0.036 W/kg ; SAR(10 g) = 0.031 W/kg

Maximum value of SAR (measured) = 0.0534 W/kg



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Date: 2017/11/8

WLAN 802.11n(40M) 5.3G Stand mode Stand CH 54 Aux 0mm

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

Medium parameters used: $f = 5270$ MHz; $\sigma = 5.236$ S/m; $\epsilon_r = 49.936$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0541 W/kg

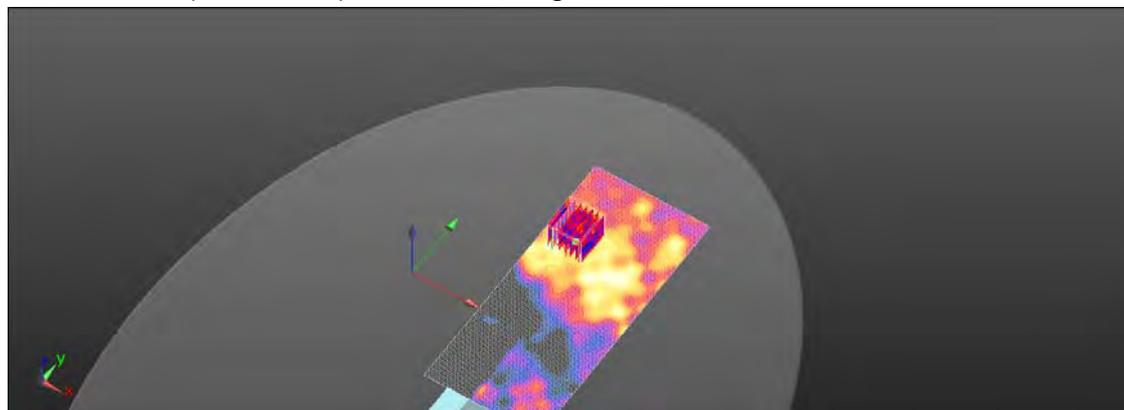
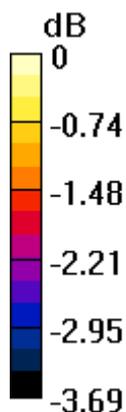
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.463 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0760 W/kg

SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.0497 W/kg



0 dB = 0.0497 W/kg = -13.04 dBW/kg

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Date: 2017/11/9

WLAN 802.11n(40M) 5.6G Stand mode Stand CH 110 Aux 0mm

Communication System: WLAN 5G; Frequency: 5550 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5550$ MHz; $\sigma = 5.684$ S/m; $\epsilon_r = 49.086$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.1°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0555 W/kg

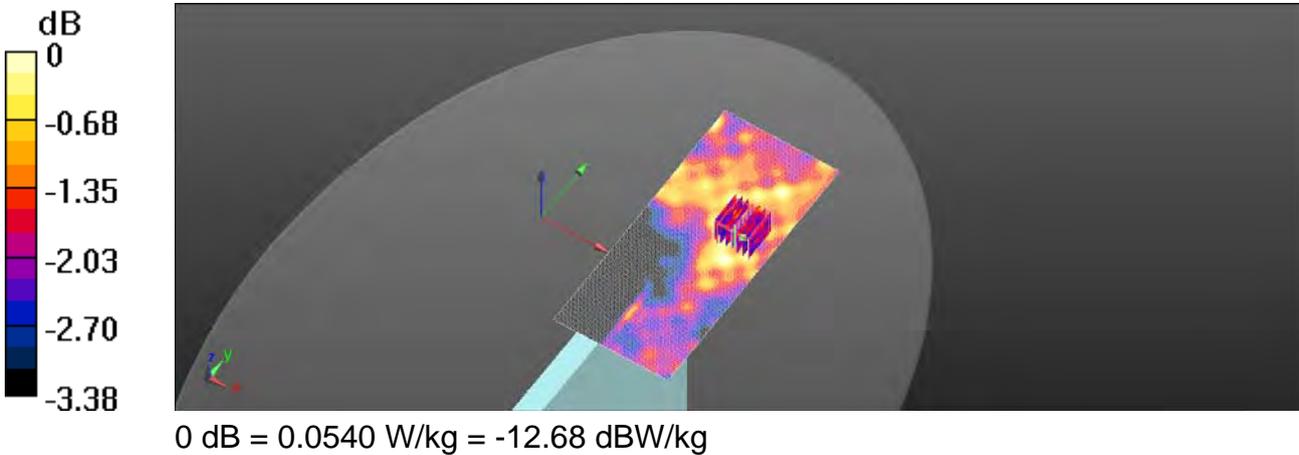
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.592 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.0910 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.0540 W/kg



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Date: 2017/11/9

WLAN 802.11ac(80M) 5.6G Stand mode Stand CH 138 Aux 0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.925 \text{ S/m}$; $\epsilon_r = 48.68$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.1°C ; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x181x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0569 W/kg

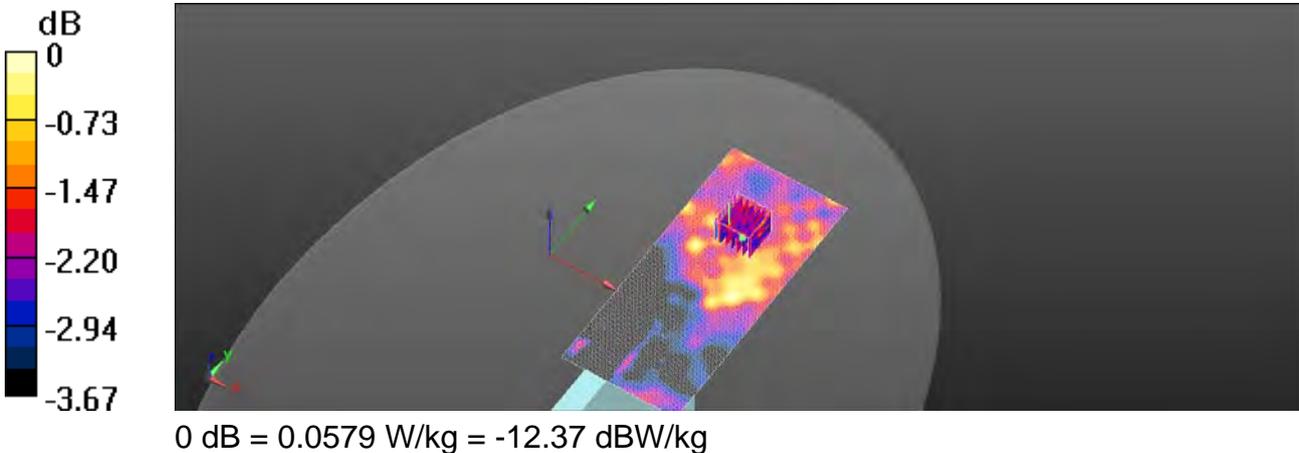
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.461 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0790 W/kg

SAR(1 g) = 0.039 W/kg ; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.0579 W/kg



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Date: 2017/11/10

WLAN 802.11n(40M) 5.8G Stand mode Stand CH 151 Aux 0mm

Communication System: WLAN 5G; Frequency: 5755 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 6.024 \text{ S/m}$; $\epsilon_r = 48.496$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (81x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0610 W/kg

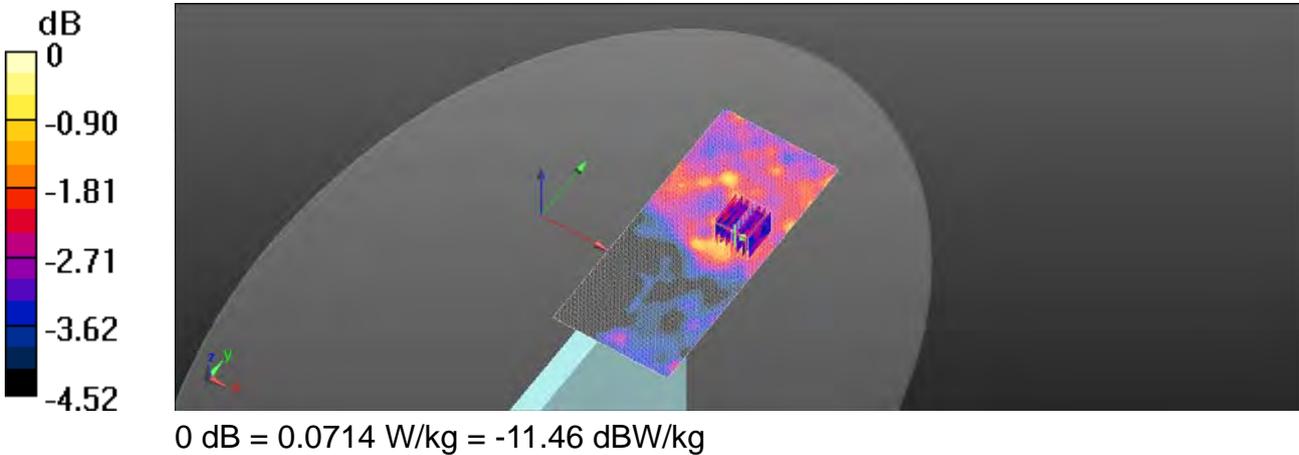
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.783 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.0714 W/kg



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6. SAR System Performance Verification

Date: 2017/11/6

Dipole 2450 MHz_SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.916$ S/m; $\epsilon_r = 52.943$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.42, 7.42, 7.42); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.4 W/kg

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

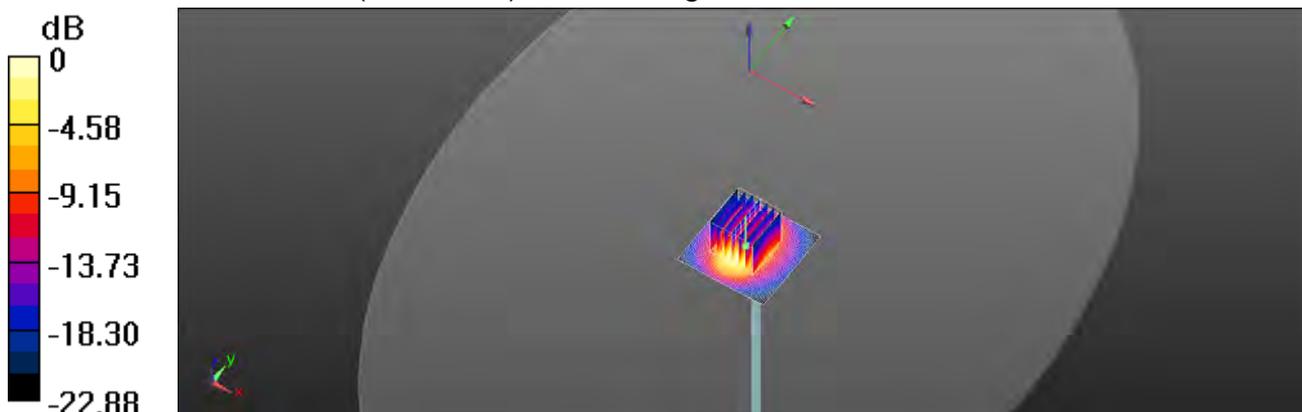
dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.35 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.77 W/kg

Maximum value of SAR (measured) = 20.2 W/kg



0 dB = 20.2 W/kg = 13.05 dBW/kg

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Date: 2017/11/7

Dipole 5200 MHz_SN:1023

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.124 \text{ S/m}$; $\epsilon_r = 50.178$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 22.0°C

DASY5 Configuration:

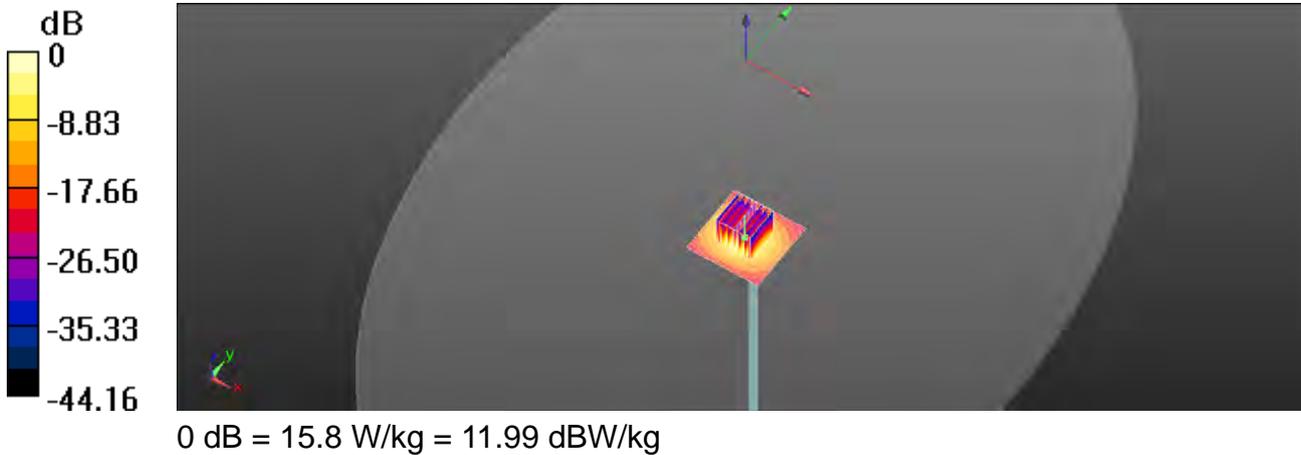
- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): 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 = 59.91 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 30.9 W/kg
SAR(1 g) = 7.46 W/kg; SAR(10 g) = 2.07 W/kg
Maximum value of SAR (measured) = 15.8 W/kg



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Date: 2017/11/8

Dipole 5300 MHz_SN:1023

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.285 \text{ S/m}$; $\epsilon_r = 49.861$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 22.0°C

DASY5 Configuration:

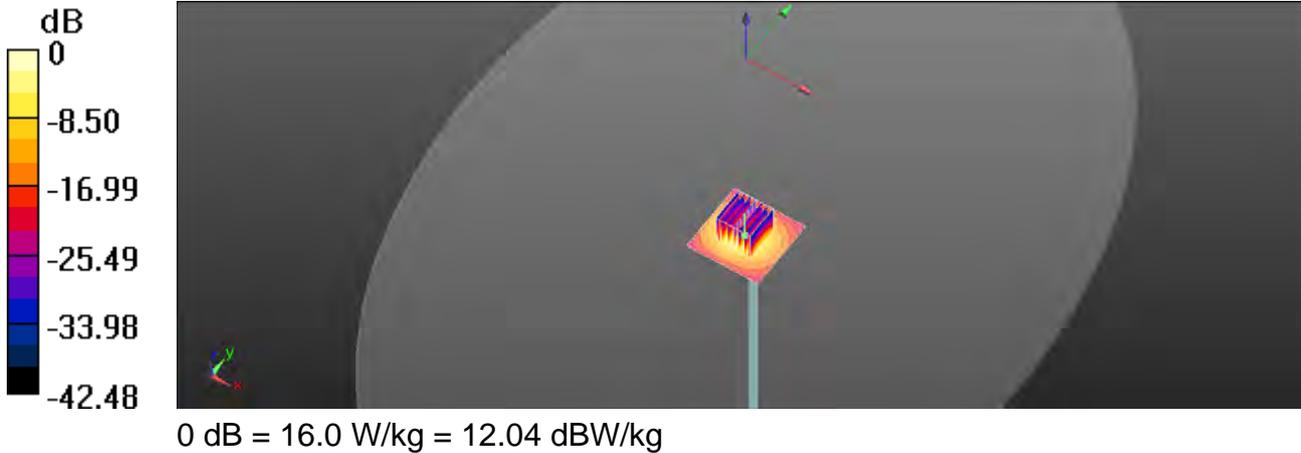
- Probe: EX3DV4 - SN3938; ConvF(4.41, 4.41, 4.41); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): 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 = 59.57 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 32.0 W/kg
SAR(1 g) = 7.39 W/kg; SAR(10 g) = 2.05 W/kg
Maximum value of SAR (measured) = 16.0 W/kg



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Date: 2017/11/9

Dipole 5600 MHz_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.772$ S/m; $\epsilon_r = 48.947$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 22.0°C

DASY5 Configuration:

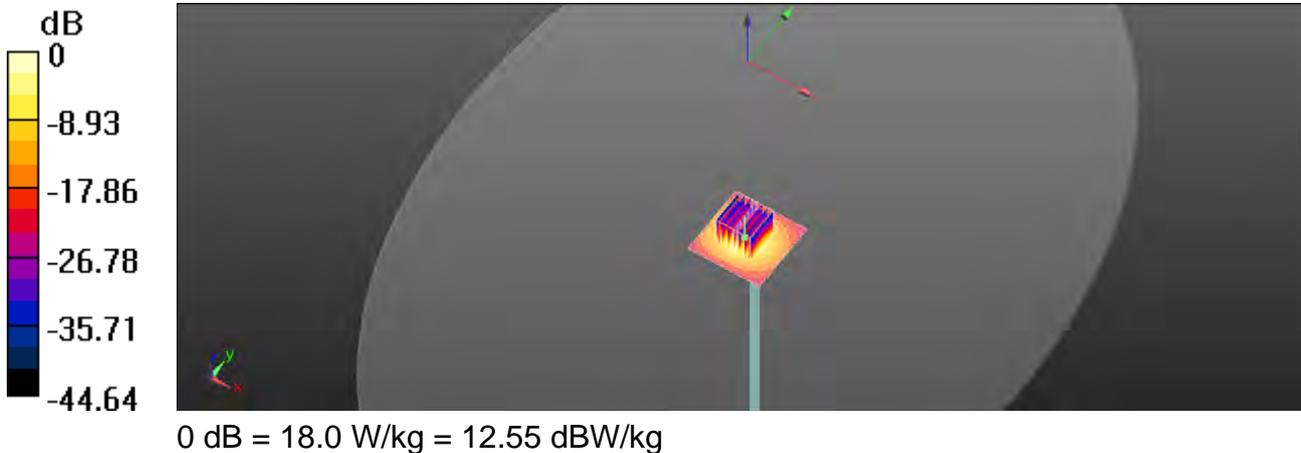
- Probe: EX3DV4 - SN3938; ConvF(3.9, 3.9, 3.9); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.5 W/kg

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

dx=4mm, dy=4mm, dz=2mm
Reference Value = 60.60 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 35.9 W/kg
SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.23 W/kg
Maximum value of SAR (measured) = 18.0 W/kg



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Date: 2017/11/10

Dipole 5800 MHz_SN:1023

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.107 \text{ S/m}$; $\epsilon_r = 48.382$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 22.0°C

DASY5 Configuration:

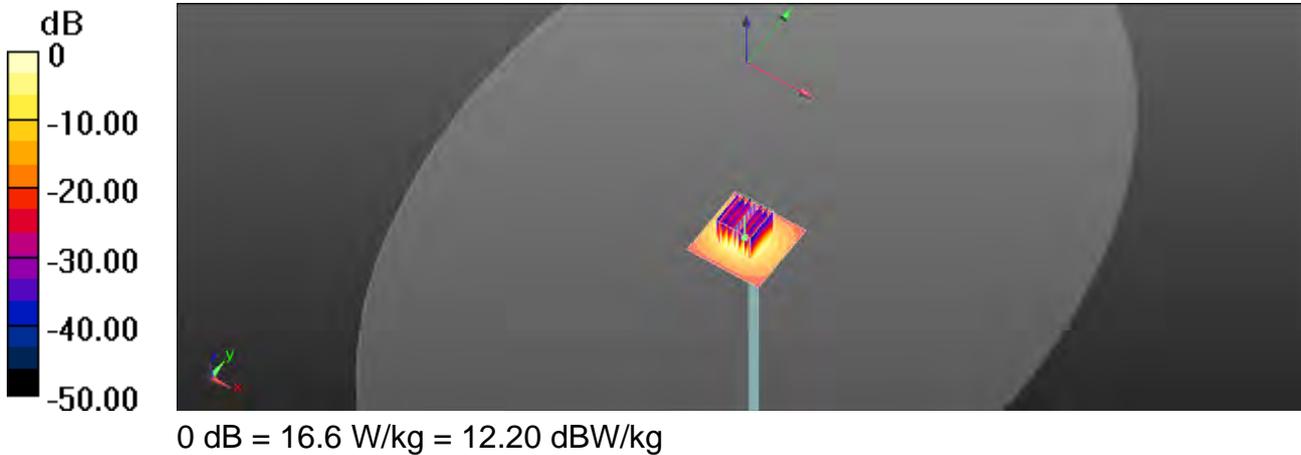
- Probe: EX3DV4 - SN3938; ConvF(4.09, 4.09, 4.09); Calibrated: 2017/9/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2017/9/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

dx=4mm, dy=4mm, dz=2mm
Reference Value = 55.21 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 35.1 W/kg
SAR(1 g) = 7.56 W/kg; SAR(10 g) = 2.07 W/kg
Maximum value of SAR (measured) = 16.6 W/kg



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7. DAE & Probe Calibration Certificate

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Zeughausstrasse 43, 8004 Zurich, Switzerland



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Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No.: DAE4-1260_Sep17

CALIBRATION CERTIFICATE

Object	DAE4 - SD 000 D04 BM - SN: 1260		
Calibration procedure(s)	QA CAL-06.v29 Calibration procedure for the data acquisition electronics (DAE)		
Calibration date:	September 28, 2017		
<p>This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.</p> <p>All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.</p> <p>Calibration Equipment used (M&TE critical for calibration)</p>			
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810279	31-Aug-17 (No:21092)	Aug-18
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE LWS 053 AA 1001	05-Jan-17 (in house check)	In house check: Jan-18
Calibrator Box V2.1	SE LMS 008 AA 1002	05-Jan-17 (in house check)	In house check: Jan-18
Calibrated by:	Name Dominique Steffen	Function Laboratory Technician	Signature
Approved by:	Name Sven Kohn	Function Deputy Manager	Signature
			Issued: September 28, 2017
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Certificate No: DAE4-1260_Sep17

Page 1 of 5

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Accreditation No.: **SCS 0108**

Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- **DC Voltage Measurement:** Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - **DC Voltage Measurement Linearity:** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
 - **Channel separation:** Influence of a voltage on the neighbor channels not subject to an input voltage.
 - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage
 - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
 - **Input Offset Current:** Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - **Input resistance:** Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
 - **Power consumption:** Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 5.1μV, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	405.082 ± 0.02% (k=2)	405.133 ± 0.02% (k=2)	404.970 ± 0.02% (k=2)
Low Range	3.98948 ± 1.50% (k=2)	3.95701 ± 1.50% (k=2)	3.98426 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	341.5 ° ± 1 °
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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200030.04	-3.23	-0.00
Channel X + Input	20005.05	0.72	0.00
Channel X - Input	-20003.18	2.57	-0.01
Channel Y + Input	200031.04	-2.35	-0.00
Channel Y + Input	20004.17	-0.10	-0.00
Channel Y - Input	-20006.05	-0.28	0.00
Channel Z + Input	200033.38	-0.04	-0.00
Channel Z + Input	20003.27	-0.97	-0.00
Channel Z - Input	-20007.67	-1.85	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2000.34	-0.06	-0.00
Channel X + Input	201.28	0.95	0.47
Channel X - Input	-198.35	1.25	-0.63
Channel Y + Input	2000.88	0.54	0.03
Channel Y + Input	199.53	-0.80	-0.40
Channel Y - Input	-200.22	-0.64	0.32
Channel Z + Input	2000.27	0.04	0.00
Channel Z + Input	198.83	-1.41	-0.70
Channel Z - Input	-200.94	-1.28	0.63

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	29.02	27.07
	-200	-24.67	-27.14
Channel Y	200	-18.44	-18.59
	-200	18.33	18.08
Channel Z	200	15.00	15.39
	-200	-18.17	-18.23

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	-1.16	-4.49
Channel Y	200	7.68	-	1.01
Channel Z	200	10.55	4.72	-

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16017	16757
Channel Y	15556	15598
Channel Z	15960	16735

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.90	-0.03	1.89	0.40
Channel Y	0.57	-0.29	1.84	0.37
Channel Z	-1.27	-2.75	0.35	0.59

6. Input Offset Current

Nominal input circuitry offset current on all channels: <251A

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.8

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	-8

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Accreditation No.: SCS 0108

Client: **SGS-TW (Auden)**

Certificate No: **EX3-3938_Sep17**

CALIBRATION CERTIFICATE

Client: **EX3DV4 - SN:3938**

Calibration procedure(s): **QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6**
Calibration procedure for dosimetric E-field probes

Calibration date: **September 29, 2017**

The calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability assigned in the following pages 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 (MATE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104779	04-Apr-17 (No. 2-17-02521/02522)	Apr-18
Power sensor NRP-291	SN: 103264	04-Apr-17 (No. 2-17-02521)	Apr-18
Power sensor NRP-291	SN: 103265	04-Apr-17 (No. 2-17-02522)	Apr-18
Reference 20 dB Attenuator	SN: S8277 (20)	07-Apr-17 (No. 2-17-02523)	Apr-18
Reference Probe E530V2	SN: 3013	31-Dec-16 (No. E53-1013_Dec16)	Dec-17
DAE4	SN: 860	7-Dec-16 (No. DAE4-860_Dec16)	Dec-17
Secondary Standards	ID	Check Date (In house)	Scheduled Check
Power meter E44195	SN: G841212074	06-Apr-16 (In house check Jun-16)	In house check Jun-18
Power sensor E4412A	SN: MV41490287	06-Apr-16 (In house check Jun-16)	In house check Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (In house check Jun-16)	In house check Jun-18
RF generator H# 8648C	SN: US3640UD1700	04-Aug-09 (In house check Jun-16)	In house check Jun-18
Network Analyser HP 8733E	SN: US37393605	19-Oct-01 (In house check Oct-16)	In house check Oct-17

Calibrated by: **Jelco Keenel** (Name) **Leadship Technician** (Function) *[Signature]* (Signature)

Approved by: **Kolja Polovic** (Name) **Technical Manager** (Function) *[Signature]* (Signature)

Issued: October 2, 2017

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Certificate No: EX3-3938_Sep17

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Glossary:

TSL	liquid simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the input coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "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 2015
- 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) NDB 955664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}: Assessed for E-field polarization $\theta = 0$ ($f \leq 900$ MHz in TEM-cell, $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E-field uncertainty inside TSL (see below ConvF).
- NORM_{f(x,y,z) = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. This uncertainty of the frequency response is included in the stated uncertainty of ConvF.}
- DCP_{x,y,z}: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak-to-Average Ratio that is not calibrated, but determined based on the signal characteristics.
- $A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}; A, B, C, D$ are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in fat phantom using E-field (or Temperature Transfer Standard for $f \leq 900$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 900$ 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 NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical (isotropy (3D deviation from isotropy)): in a field of low gradients realized using a fat 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 NORM_x (no uncertainty required).

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EX3DV4-4N-3938

September 29, 2017

Probe EX3DV4

SN:3938

Manufactured: May 2, 2013
Calibrated: September 29, 2017

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3938_Sep17

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EX3DV4- SN:3938

September 28, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^a	Relative Permittivity ^b	Conductivity (S/m) ^b	ConvF X	ConvF Y	ConvF Z	Alpha ^c	Depth ^d (mm)	Unc (k=2)
750	41.5	0.80	10.26	10.26	10.26	0.53	0.80	± 12.0 %
835	41.5	0.80	9.69	9.69	9.69	0.50	0.83	± 12.0 %
900	41.5	0.87	9.50	9.50	9.50	0.51	0.80	± 12.0 %
1450	40.5	1.20	8.49	8.49	8.49	0.45	0.80	± 12.0 %
1750	40.1	1.37	8.35	8.35	8.35	0.33	0.85	± 12.0 %
1900	40.0	1.40	8.07	8.07	8.07	0.36	0.84	± 12.0 %
2000	40.0	1.40	8.04	8.04	8.04	0.30	0.86	± 12.0 %
2300	39.5	1.67	7.66	7.66	7.66	0.32	0.84	± 12.0 %
2450	39.2	1.80	7.30	7.30	7.30	0.37	0.80	± 12.0 %
2600	39.0	1.96	7.14	7.14	7.14	0.33	0.86	± 12.0 %
5250	35.9	4.71	5.04	5.04	5.04	0.35	1.60	± 13.1 %
5600	35.5	5.07	4.70	4.70	4.70	0.40	1.60	± 13.1 %
5750	35.4	5.22	4.85	4.85	4.85	0.40	1.60	± 13.1 %

^a Frequency validity above 300 MHz of ± 100 MHz only applies for DASY V4.4 and higher (see Page 2), also 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, 60 and 70 MHz for ConvF assessments at 30, 64, 120, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^b At frequencies below 3 GHz, the validity of basic parameters (b 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 basic parameters (b and c) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated log10 tissue parameters.

^c Alpha/Depth was determined during calibration. SPEAG warrants that the remaining deviation (due to the boundary effect) after compensation is always less than ± 1% for frequencies above 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe diameter from the boundary.

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EX3DV4-SN3938

September 29, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^a	Conductivity (S/m) ^a	CorrF X	CorrF Y	CorrF Z	Alpha ^b	Depth (mm) ^d	Unc (k=2)
750	55.5	0.96	9.62	9.62	9.62	0.51	0.90	± 12.0 %
835	55.2	0.97	9.48	9.48	9.48	0.50	0.83	± 12.0 %
900	55.0	1.05	9.35	9.35	9.35	0.50	0.80	± 12.0 %
1450	54.0	1.30	8.29	8.29	8.29	0.36	0.60	± 12.0 %
1750	53.4	1.49	7.98	7.98	7.98	0.45	0.80	± 12.0 %
1900	53.3	1.52	7.70	7.70	7.70	0.40	0.80	± 12.0 %
2000	53.3	1.52	7.87	7.87	7.87	0.36	0.86	± 12.0 %
2300	52.9	1.81	7.51	7.51	7.51	0.41	0.85	± 12.0 %
2450	52.7	1.95	7.42	7.42	7.42	0.39	0.80	± 12.0 %
2600	52.5	2.16	7.15	7.15	7.15	0.35	0.89	± 12.0 %
3250	48.9	5.36	4.41	4.41	4.41	0.40	1.90	± 13.1 %
3600	48.5	5.77	3.90	3.90	3.90	0.45	1.90	± 13.1 %
5750	48.3	5.94	4.09	4.09	4.09	0.45	1.90	± 13.1 %

^c Frequency validity above 300 MHz (at ± 10) 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 CorrF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 20, 40, 60 and 80 MHz for CorrF assessments at 30, 60, 120, 180 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 10 MHz.

^a At frequencies below 3 GHz, the validity of tissue parameters (a and b) can be relaxed to ± 10% if liquid compensation (cm₁₀) is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (a and b) is restricted to ± 5%. The uncertainty is the RSS of the CorrF uncertainty for indicated target tissue parameters.

^d Alpha/Depth are determined during calibration. SPEAG warrants that the maximum deviation from its the body's effective compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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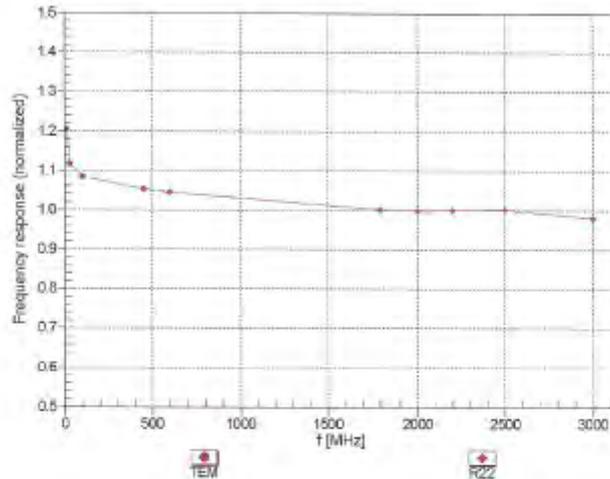
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EX30V4-SN:3938

September 29, 2017

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

Certificate No: EX3-3938_Sep17

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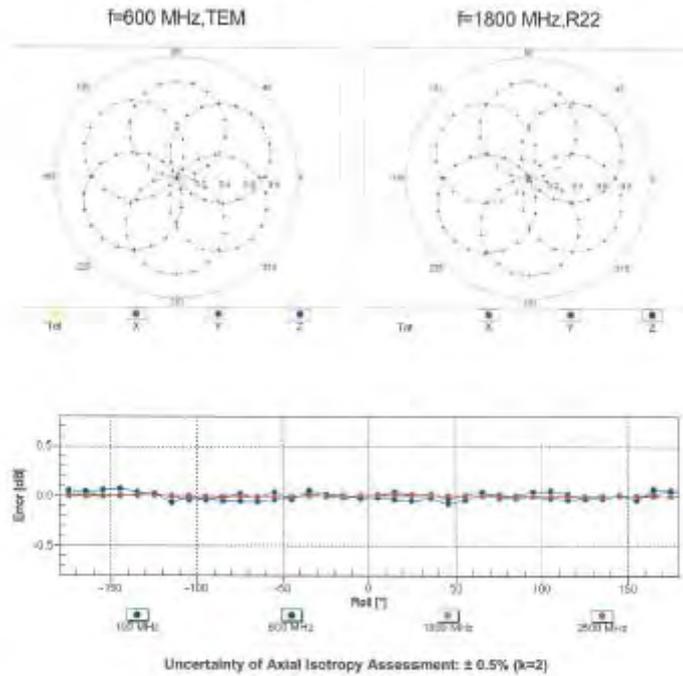
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EX30V4-SN-3938

September 29, 2017

Receiving Pattern (ϕ), $\theta = 0^\circ$



Certificate No. EX3-3938_Sep17

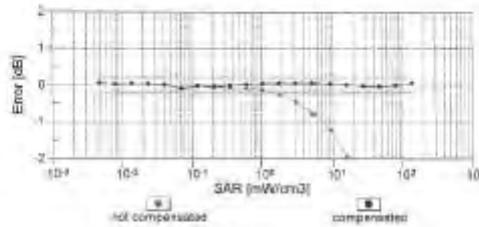
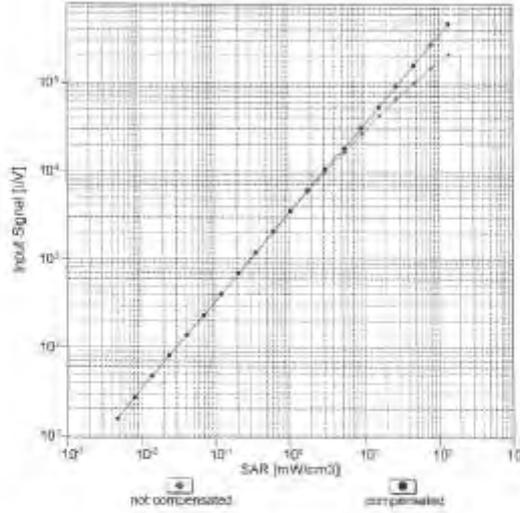
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Dynamic Range f(SAR_{head}) (TEM cell, f_{exc}=1900 MHz)



Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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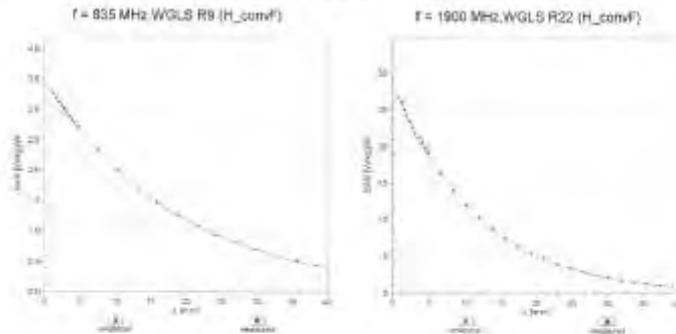
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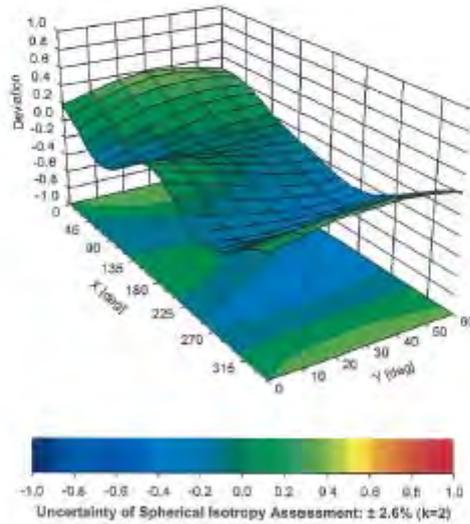
EX30V4-SN:3938

September 29, 2017

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (θ , θ), $f = 900$ MHz



Certificate No: EX3-3938_Sep17

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EX3DV4-SN:3938

September 29, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-24.6
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-DIM_Sec11

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8. Uncertainty Budget

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

A	c	D	e	f	g	h=c * f / e	i=c * g / e	k	
Source of Uncertainty	Tolerance/ Uncertainty	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%	∞
<i>Isotropy , Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom	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.)	2.41%	N	1	1	0.64	0.43	1.54%	1.04%	M
Liquid Conductivity (mea.)	3.45%	N	1	1	0.6	0.49	2.07%	1.69%	M
Combined standard uncertainty		RSS					12.00%	11.87%	
Expant uncertainty (95% confidence)							23.99%	23.75%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	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)									
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.)	0.79%	N	1	1	0.64	0.43	0.51%	0.34%	M
Liquid Conductivity (mea.)	3.48%	N	1	1	0.6	0.49	2.09%	1.71%	M
Combined standard uncertainty		RSS					11.62%	11.54%	
Explant uncertainty (95% confidence)							23.24%	23.08%	

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9. System Validation from Original Equipment Supplier

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zetglhausstrasse 43, 8004 Zurich, Switzerland



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S Servizio svizzero di tarature
S Swiss Calibration Service

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The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: D2450V2-727_Apr17

CALIBRATION CERTIFICATE			
Object	D2450V2 - SN: 727		
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz		
Calibration date:	April 21, 2017		
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.			
All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3)°C and humidity < 70%.			
Calibration Equipment used (MSTE critical for calibration)			
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103264	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103265	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Attenuator	SN: 5058 (20k)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 05387	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DW4	SN: 7348	31-Dec-16 (No. EX3-7348_Dec16)	Dec-17
DAE4	SN: 601	28-Mar-17 (No. DAE4-601_Mar17)	Mar-18
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB97489704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator P&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP B753E	SN: US37380585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17
Calibrated by:	Name: Michael Weber	Function: Laboratory Technician	Signature:
Approved by:	Name: Katja Pokovic	Function: Technical Manager	Signature:
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			Issued: April 21, 2017

Certificate No: D2450V2-727_Apr17

Page 1 of 8

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Accreditation No.: SCS 0108

Glossary:

TSL tissue simulating liquid
ConVF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- 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
- KDB B65664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.0
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 \pm 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 \pm 0.2) °C	37.7 \pm 6 %	1.87 mho/m \pm 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	62.2 W/kg \pm 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 \pm 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 \pm 0.2) °C	52.5 \pm 6 %	2.03 mho/m \pm 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.6 W/kg \pm 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 \pm 16.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	56.3 Ω + 2.1 j Ω
Return Loss	- 24.0 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	51.1 Ω + 4.1 j Ω
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 dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	January 09, 2003

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DASY5 Validation Report for Head TSL

Date: 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; $\sigma = 1.87$ S/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³

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(J442); SEMCAD X 14.6.10(7413)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

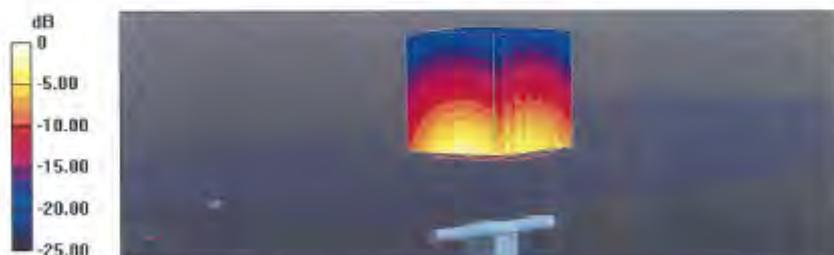
Measurement grid: dx=5mm, dy=5mm, dz=5mm

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/kg

Maximum value of SAR (measured) = 21.1 W/kg

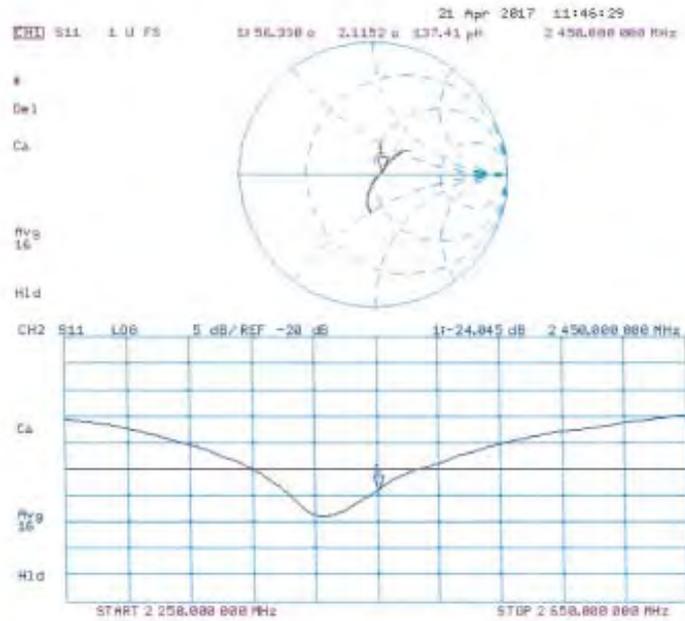


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Impedance Measurement Plot for Head TSL



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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

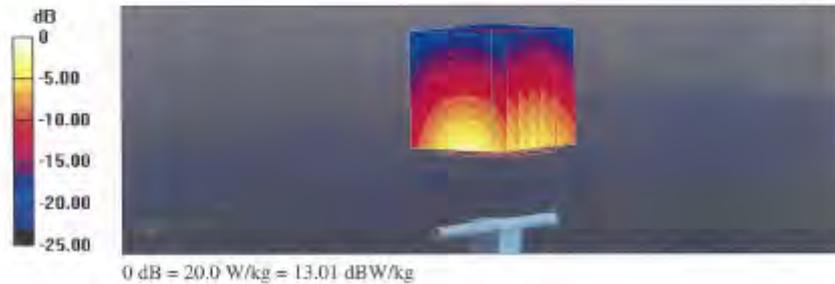
Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: $f = 2450$ MHz; $\sigma = 2.03$ S/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

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/kg
Maximum value of SAR (measured) = 20.0 W/kg

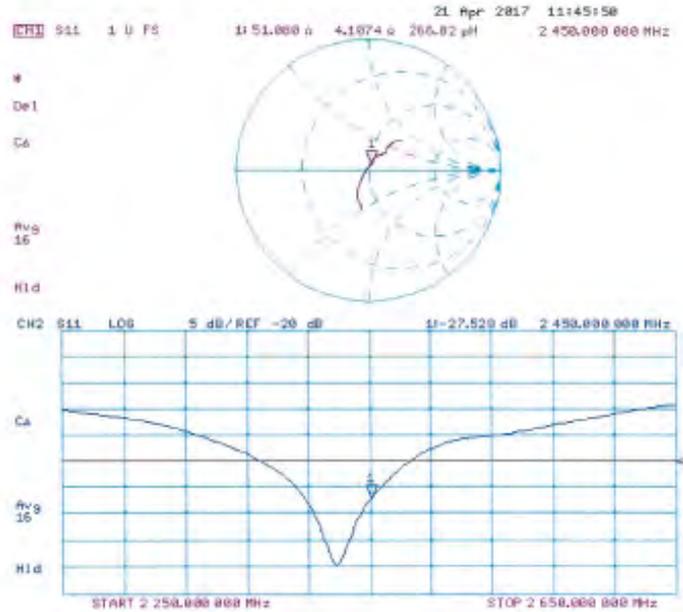


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Impedance Measurement Plot for Body TSL



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client: **SGS-TW (Auden)**

Certificate No: **D5GHzV2-1023_Jan17**

CALIBRATION CERTIFICATE

Object: **D5GHzV2 - SN:1023**

Calibration procedure(s): **QA CAL-22.v2
Calibration procedure for dipole validation kits between 3-6 GHz**

Calibration date: **January 20, 2017**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility, environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (MATE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	08-Apr-16 (No. 217-02289/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02288)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20K)	05-Apr-16 (No. 217-02292)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 06327	05-Apr-16 (No. 217-02295)	Apr-17
Reference Probe EX30V4	SN: 3503	31-Dec-16 (No. EX3-3503_Dec16)	Dec-17
DAE4	SN: 801	04-Jan-17 (No. DAE4-801_Jan17)	Jan-18

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: 0837480704	07-Oct-15 (in house check Oct-15)	In house check: Oct-18
Power sensor HP B481A	SN: US37292783	07-Oct-15 (in house check Oct-15)	In house check: Oct-18
Power sensor HP B481A	SN: MY41092317	07-Oct-15 (in house check Oct-15)	In house check: Oct-18
RF generator R&S SMT-00	SN: 100972	15-Jun-15 (in house check Oct-15)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-17

	Name	Function	Signature
Calibrated by:	Jelen Kasirai	Laboratory Technician	
Approved by:	Katja Pokroyc	Technical Manager	

Issued: January 24, 2017

Certificate No: D5GHzV2-1023_Jan17

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**Calibration Laboratory of
Schmid & Partner
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Zeughausstrasse 43, 8004 Zurich, Switzerland



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Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL tissue simulating liquid
ConvF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- 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
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.6
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	38.0	4.68 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	4.45 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.55 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	75.2 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.5 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.8	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	—	—

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	81.8 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	34.7 ± 6 %	4.85 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	—	—

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.1 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5800 MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	5.05 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	—	—

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.82 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.0 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.5 ± 6 %	5.36 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	—	—

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.32 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	72.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.05 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

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	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 cm ³ (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 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.15 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.3 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.6 ± 6 %	5.90 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	—	—

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	8.02 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	79.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.26 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

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	45.3 ± 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 cm ³ (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 measured	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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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 jΩ
Return Loss	-23.4 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	49.0 Ω - 1.8 jΩ
Return Loss	-33.5 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.1 Ω - 0.2 jΩ
Return Loss	-28.2 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	55.4 Ω + 2.8 jΩ
Return 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 jΩ
Return Loss	-37.0 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	55.6 Ω + 1.5 jΩ
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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General Antenna Parameters and Design

Electrical Delay (one direction)	1.199 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 05, 2004

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DASY5 Validation Report for Head TSL

Date: 20.01.2017

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; $\sigma = 4.45$ S/m; $\epsilon_r = 35.4$; $\rho = 1000$ kg/m³;

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.55$ S/m; $\epsilon_r = 35.2$; $\rho = 1000$ kg/m³;

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.85$ S/m; $\epsilon_r = 34.7$; $\rho = 1000$ kg/m³;

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.05$ S/m; $\epsilon_r = 34.4$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Measurement Standard: DASY5 (IEE/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(5.01, 5.01, 5.01); 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=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

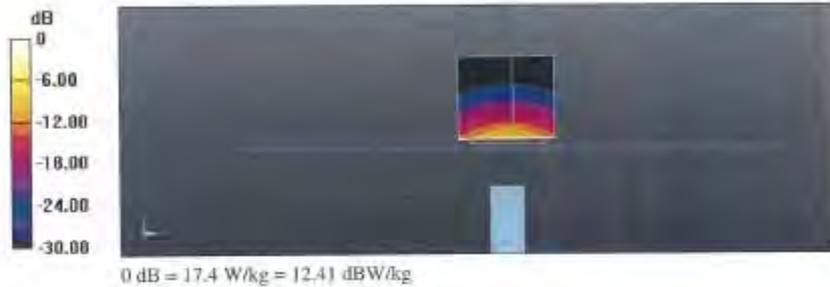
Maximum value of SAR (measured) = 19.8 W/kg

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Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 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

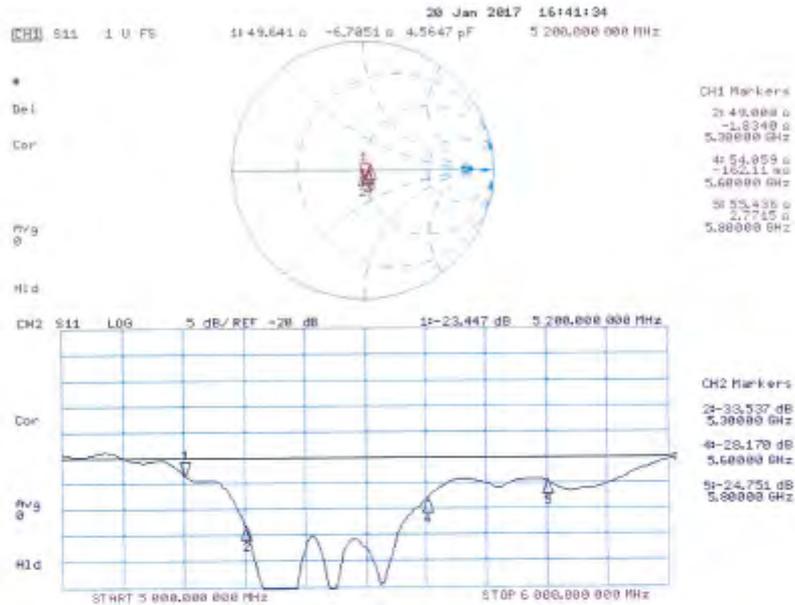


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Impedance Measurement Plot for Head TSL



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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: UTD 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; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³.

Medium parameters used: $f = 5300$ MHz; $\sigma = 5.5$ S/m; $\epsilon_r = 47.3$; $\rho = 1000$ kg/m³.

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.9$ S/m; $\epsilon_r = 46.6$; $\rho = 1000$ kg/m³.

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.17$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³.

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: 31.12.2016, ConvF(4.48, 4.48, 4.48); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 S0601; 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

Peak 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

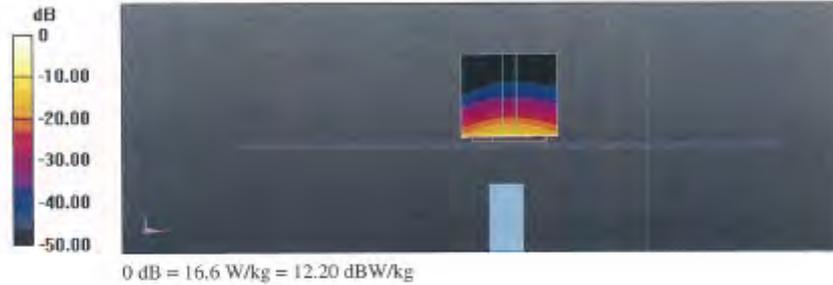
Maximum value of SAR (measured) = 18.9 W/kg

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Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 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

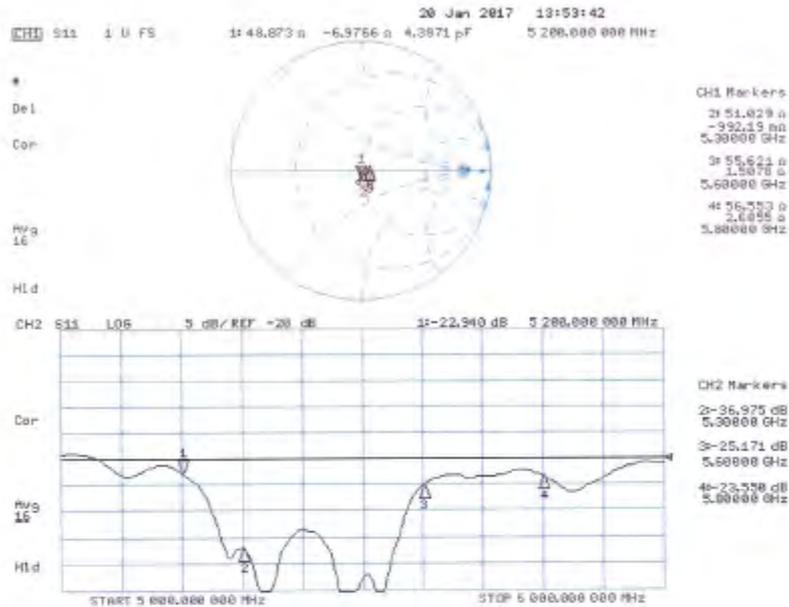


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Impedance Measurement Plot for Body TSL



- End of 1st part of report -

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