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SAR TEST REPORT





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

Product Name Notebook Computer

Brand Name

Model No.

N22Q7

Applicant Acer Incorporated

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

22181, Taiwan (R.O.C)

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

FCC ID HLZMT7921

Date of Receipt Jan. 11, 2022

Date of Test(s) Mar. 21, 2022 ~ Mar. 23, 2022

Date of Issue Apr. 08, 2022

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Ruby Ou	PM / Tom Chiang	Asst. Manager / John Yeh
Kuby Ou	Tom Chiang	John Teh

Date: Apr. 08, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E5/2022/10003	Rev.00	Initial creation of document	Mar. 31, 2022	Ruby Ou	*
E5/2022/10003	Rev.01	Added Simultaneous Transmission Value in p. 7.	Apr. 08, 2022	Ruby Ou	
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1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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0. Guidance applied

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB248227D01v02r02

KDB865664D01v01r04

KDB865664D02v01r02

KDB447498D01v06

KDB616217D04v01r02

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab					
No. 2, Keji 1st Rd., Gu	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan				
FCC Designation Number					
Tel	+886-2-2299-3279				
Fax +886-2-2298-0488					
Internet	http://www.tw.sgs.com/				

1.2 Details of Applicant

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

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1.3 Description of EUT

General Information of Host:

Control information of Floot.						
Equipment Under Test	Notebook Comp	Notebook Computer				
Brand Name	acer					
Model No.	N22Q7					
Integrated Module	Brand Name: MediaTek Model Name: MT7921					
FCC ID	HLZMT7921					
Mode of Operation	⊠WLAN802.11 ⊠Bluetooth					
Duty Cyala	WLAN802.11	Refer to page 29-33				
Duty Cycle	Bluetooth	77.2%				
TX Frequency Range (MHz)	2412 ~ 2472, WLAN 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5745 ~ 5825					
(Bluetooth 2402 ~ 2480					

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Summary of Maximum SAR Value					
Mode	Highest SAR1g Body (W/kg)				
2.4G WLAN	1.16				
5G WLAN	1.19				
Bluetooth(GFSK)	0.42				

Maximum Simultaneous Transmission SAR Value

Sheet Name	Mode	Assemble	Position	Summed SAR 1g SAR (W/kg)
Co-location_1g_body	BT	2+7	Back Surface	1.58
Co-location_1g_body	WLAN_2.4G	2+7	Back Surface	1.58
Co-location_1g_body	WLAN_5G	4+5+7	Bottom Surface	1.1

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WLAN conducted power table:

Notebook mode

Ant Main							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
		1	2412		19.54	19.33	
	802.11b	6	2437	1Mbps	19.73	19.39	
		11	2462		19.52	19.47	
		1	2412		17.17	16.62	
	802.11g	6	2437	6Mbps	18.32	17.73	
		11	2462		17.14	16.66	
	802.11n20-HT0	1	2412		17.17	16.62	
		6	2437	MCS0	18.32	17.77	
		11	2462		17.14	16.57	
	802.11ac20-VHT0	1	2412	MCS0	16.59	16.04	
		6	2437		17.92	17.52	
2.45GHz		11	2462		16.30	15.79	
2.430112	802.11ax20-HE0	1	2412	MCS0	16.86	16.33	
		6	2437		18.14	17.57	
		11	2462		16.59	16.14	
		3	2422		15.09	14.64	
	802.11n40-HT0	6	2437	MCS0	16.17	15.75	
		9	2452		15.06	14.59	
		3	2422		15.09	14.62	
	802.11ac40-VHT0	6	2437	MCS0	16.17	15.74	
		9	2452		15.06	14.64	
		3	2422		15.34	14.85	
	802.11ax40-HE0	6	2437	MCS0	16.39	15.80	
		9	2452		15.27	14.71	

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Ant Main								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		36	5180		15.67	14.94		
	802.11a	40	5200	6Mbps	17.34	17.08		
	002.11a	44	5220	Glylibhs	18.91	18.74		
		48	5240		18.91	18.71		
		36	5180		15.67	15.06		
	802.11n20-HT0	40	5200	MCS0	17.34	16.73		
		44	5220	IVICSU	18.91	18.20		
		48	5240		18.91	18.19		
	802.11ac20-VHT0	36	5180	MCS0	16.06	15.44		
		40	5200		17.24	16.51		
		44	5220		18.25	17.54		
5.15-5.25 GHz		48	5240		18.25	17.49		
J. 13-3.23 GHZ	802.11ax20-HE0	36	5180		16.29	15.59		
		40	5200	MCS0	17.45	16.84		
	002.11ax20-11L0	44	5220	IVICSU	18.51	17.83		
		48	5240		18.51	17.90		
	802.11n40-HT0	38	5190	MCS0	15.39	14.60		
	002.111140-1110	46	5230	WCSO	17.63	16.87		
	802.11ac40-VHT0	38	5190	MCS0	15.39	14.68		
	002.11a040-VIII0	46	5230	IVICOU	17.63	17.00		
	802.11ax40-HE0	38	5190	MCS0	15.61	14.89		
	002.11aA+0-11L0	46	5230	IVICOU	17.84	17.23		
	802.11ac80-VHT0	42	5210	MCS0	14.09	13.30		
	802.11ax80-HE0	42	5210	MCS0	14.32	13.66		

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Ant Main								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		52	5260		18.94	18.49		
	802.11a	56	5280	6Mbps	18.94	18.54		
	002.11a	60	5300	Glylibhs	18.82	18.45		
		64	5320		15.75	15.01		
		52	5260		18.94	18.28		
	802.11n20-HT0	56	5280	MCS0	18.94	18.19		
		60	5300	IVICSU	18.82	18.14		
		64	5320		15.75	15.08		
	802.11ac20-VHT0	52	5260	MCS0	18.50	17.75		
		56	5280		18.50	17.75		
		60	5300		17.96	17.33		
5.25-5.35 GHz		64	5320		15.64	14.97		
3.23-3.33 GHZ	802.11ax20-HE0	52	5260		18.79	18.12		
		56	5280	MCS0	18.79	18.01		
	002.11ax20-11L0	60	5300	IVICSU	18.17	17.56		
		64	5320		15.86	15.08		
	802.11n40-HT0	54	5270	MCS0	17.89	17.27		
	002.111140-1110	62	5310	WCSO	15.24	14.56		
	802.11ac40-VHT0	54	5270	MCS0	17.89	17.20		
	002.11a040-VIII0	62	5310	IVICOU	15.24	14.45		
	802.11ax40-HE0	54	5270	MCS0	18.09	17.41		
	002.11aA+0-11L0	62	5310	IVICOU	15.51	14.76		
	802.11ac80-VHT0	58	5290	MCS0	14.25	13.63		
	802.11ax80-HE0	58	5290	MCS0	14.49	13.79		

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		An	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
	802.11a	100 120 140 144	5500 5600 5700 5720	- 6Mbps	17.21 19.16 17.90 17.04	17.18 18.92 17.39 16.96
	802.11n20-HT0	100 120 140 144	5500 5600 5700 5720	MCS0	17.21 19.16 17.90 17.04	16.48 18.56 17.27 16.39
	802.11ac20-VHT0	100 120 140 144	5500 5600 5700 5720	MCS0	16.99 18.73 17.71 13.43	16.24 17.96 17.08 12.69
	802.11ax20-HE0	100 120 140 144	5500 5600 5700 5720	MCS0	17.26 18.97 17.94 13.61	16.48 18.31 17.54 12.86
5.6GHz	802.11n40-HT0	102 118 134 142	5510 5590 5670 5710	MCS0	17.03 17.48 17.46 10.37	16.33 16.70 16.85 9.64
	802.11ac40-VHT0	102 118 134 142	5510 5590 5670 5710	MCS0	17.03 17.48 17.46 10.37	16.36 16.78 16.78 9.74
	802.11ax40-HE0	102 118 134 142	5510 5590 5670 5710	MCS0	17.11 17.78 17.66 10.60	16.40 17.13 16.94 9.81
	802.11ac80-VHT0	106 122 138	5530 5610 5690	MCS0	15.22 16.51 14.96	14.59 15.82 14.22
	802.11ax80-HE0	106 122 138	5530 5610 5690	MCS0	15.49 16.75 14.02	14.72 16.03 13.34

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	Ant Main									
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		149	5745		19.93	19.45				
	802.11a	157	5785	6Mbps	19.88	19.58				
		165	5825		20.06	19.95				
		149	5745		19.93	19.30				
	802.11n20-HT0	157	5785	MCS0	19.88	19.16				
		165	5825		20.06	19.37				
		149	5745	MCS0	18.65	17.88				
	802.11ac20-VHT0	157	5785		18.65	17.95				
		165	5825		18.71	17.92				
5.8GHz		149	5745		18.90	18.26				
3.6GHZ	802.11ax20-HE0	157	5785	MCS0	18.88	18.22				
		165	5825	1	19.98	19.29				
	802.11n40-HT0	151	5755	MCS0	17.46	16.83				
	002.1111 4 0-Π10	159	5795	IVICSU	17.48	16.71				
	802.11ac40-VHT0	151	5755	MCS0	17.46	16.86				
	002.11a040-VH10	159	5795	IVICSU	17.48	16.79				
	802.11ax40-HE0	151	5755	MCS0	17.74	17.09				
	002.11ax40-nE0	159	5795	IVICSU	17.74	16.98				
	802.11ac80-VHT0	155	5775	MCS0	16.50	15.83				
	802.11ax80-HE0	155	5775	MCS0	16.70	16.05				

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		Ar	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		19.11	18.77
	802.11b	6	2437	1Mbps	19.24	18.87
		11	2462		19.13	18.76
		1	2412		17.65	17.04
	802.11g	6	2437	6Mbps	18.57	17.97
		11	2462		17.23	16.44
		1	2412	MCS0	17.65	16.94
	802.11n20-HT0	6	2437		18.57	17.82
		11	2462		17.23	16.60
		1	2412	MCS0	16.86	16.17
	802.11ac20-VHT0	6	2437		18.29	17.62
2.45GHz		11	2462		16.62	15.83
2.430112		1	2412		17.12	16.40
	802.11ax20-HE0	6	2437	MCS0	18.50	17.82
		11	2462		16.88	16.24
		3	2422		15.39	14.65
	802.11n40-HT0	6	2437	MCS0	16.42	15.73
		9	2452		15.17	14.52
		3	2422]	15.39	14.68
	802.11ac40-VHT0	6	2437	MCS0	16.42	15.72
		9	2452		15.17	14.49
		3	2422]	15.62	14.90
	802.11ax40-HE0	6	2437	MCS0	16.63	15.95
		9	2452		15.46	14.86

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		Ar	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		15.27	14.63
	000.44-	40	5200	CNAL	17.11	16.93
	802.11a	44	5220	6Mbps	18.72	18.21
		48	5240		18.72	18.26
		36	5180		15.27	14.64
	902 11520 UTO	40	5200	MCSO	17.11	16.51
	802.11n20-HT0	44	5220	MCS0	18.72	17.94
		48	5240		18.72	17.97
		36	5180	MCS0	15.65	14.89
	802.11ac20-VHT0	40	5200		16.92	16.12
	002.11ac20-VH10	44	5220		18.15	17.48
5.15-5.25 GHz		48	5240		18.15	17.54
5.15-5.25 GHZ		36	5180		15.91	15.26
	802.11ax20-HE0	40	5200	MCS0	17.12	16.42
	002.118X20-DE0	44	5220	IVICSU	18.39	17.64
		48	5240		18.39	17.79
	802.11n40-HT0	38	5190	MCS0	14.97	14.31
	002.111140-F10	46	5230	IVICSU	17.25	16.46
	802.11ac40-VHT0	38	5190	MCS0	14.97	14.21
	002.118040-77110	46	5230	IVICSU	17.25	16.63
	802.11ax40-HE0	38	5190	MCSO	15.25	14.62
	002.11aX40-ΠΕ0	46	5230	MCS0	17.53	16.84
	802.11ac80-VHT0	42	5210	MCS0	13.74	13.07
	802.11ax80-HE0	42	5210	MCS0	14.02	13.37

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		Λr	nt Aux			
		AI	IL AUX	1		
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		18.79	18.29
	000.44-	56	5280	CMbpa	18.79	18.41
	802.11a	60	5300	6Mbps	18.66	18.37
		64	5320		16.17	15.39
		52	5260		18.79	18.18
	802.11n20-HT0	56	5280	MCS0	18.79	18.06
	002.111120 - 010	60	5300	IVICSO	18.66	17.87
	[64	5320		16.17	15.57
		52	5260		18.41	17.65
	802.11ac20-VHT0	56	5280	MCS0	18.41	17.66
	002.118020-11110	60	5300	IVICSU	17.61	16.89
5.25-5.35 GHz		64	5320		15.50	14.88
3.23-3.33 GHZ		52	5260		18.66	18.03
	802.11ax20-HE0	56	5280	MCS0	18.66	18.03
	002.114,20-1120	60	5300	IVICSU	17.89	17.28
		64	5320		15.73	15.06
	802.11n40-HT0	54	5270	MCS0	17.51	16.80
	002.111140-1110	62	5310	MCSO	15.00	14.28
	802.11ac40-VHT0	54	5270	MCS0	17.51	16.77
	002.11a040-VIII0	62	5310	IVICOU	15.00	14.32
	802.11ax40-HE0	54	5270	MCS0	17.74	17.06
		62	5310		15.25	14.58
	802.11ac80-VHT0	58	5290	MCS0	14.07	13.37
	802.11ax80-HE0	58	5290	MCS0	14.29	13.68

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		Ar	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
	802.11a	100 120 140 144	5500 5600 5700 5720	6Mbps	16.68 18.78 17.70 17.20	16.05 18.03 17.16 16.57
	802.11n20-HT0	100 120 140 144	5500 5600 5700 5720	MCS0	16.68 18.78 17.70 17.20	15.89 18.12 17.02 16.52
	802.11ac20-VHT0	100 120 140 144	5500 5600 5700 5720	MCS0	16.39 18.54 17.33 11.92	15.70 17.81 16.55 11.25
	802.11ax20-HE0	100 120 140 144	5500 5600 5700 5720	MCS0	16.61 18.83 17.53 12.20	16.20 18.54 17.07 11.89
5.6GHz	802.11n40-HT0	102 118 134 142	5510 5590 5670 5710	MCS0	16.54 16.92 17.35 9.35	15.80 16.19 16.66 8.63
	802.11ac40-VHT0	102 118 134 142	5510 5590 5670 5710	MCS0	16.54 16.92 17.35 9.35	15.79 16.18 16.64 8.71
	802.11ax40-HE0	102 118 134 142	5510 5590 5670 5710	MCS0	16.76 17.19 17.58 9.70	16.12 16.49 16.89 9.09
	802.11ac80-VHT0	106 122 138	5530 5610 5690	MCS0	14.51 16.31 7.63	13.77 15.62 6.93
	802.11ax80-HE0	106 122 138	5530 5610 5690	MCS0	14.74 16.55 7.92	14.06 15.75 7.27

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		Ar	nt Aux			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		19.72	19.27
	802.11a	157	5785	6Mbps	19.83	19.28
		165	5825	1	19.74	19.29
		149	5745		19.72	19.06
	802.11n20-HT0	157	5785	MCS0	19.83	19.20
		165	5825		19.74	18.94
		149	5745	MCS0	18.26	17.55
	802.11ac20-VHT0	157	5785		18.34	17.60
		165	5825		18.30	17.63
5.8GHz		149	5745		18.47	17.70
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	18.57	17.88
		165	5825	1	18.51	17.85
	802.11n40-HT0	151	5755	MCS0	17.42	16.64
	002.111140 - 010	159	5795	IVICSU	17.28	16.51
	802.11ac40-VHT0	151	5755	MCS0	17.42	16.78
	002.118040-7010	159	5795	IVICSU	17.28	16.61
	802.11ax40-HE0	151	5755	MCS0	17.63	16.97
	002.11aX40-FIE0	159	5795	1 IVICSU	17.56	16.88
	802.11ac80-VHT0	155	5775	MCS0	16.24	15.50
	802.11ax80-HE0	155	5775	MCS0	16.47	15.70

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Tablet mode

		An	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		13.00	12.96
	802.11b	6	2437	1Mbps	13.00	12.82
		11	2462	1	13.00	12.77
		1	2412		13.00	12.26
	802.11g	6	2437	6Mbps	13.00	12.23
		11	2462		13.00	12.26
		1	2412		13.00	12.27
	802.11n20-HT0	6	2437	MCS0	13.00	12.23
		11	2462		13.00	12.38
		1	2412	MCS0	13.00	12.40
		2	2417		13.00	12.29
	802.11ac20-VHT0	6	2437		13.00	12.24
2.45GHz		10	2457		13.00	12.39
2.430112		11	2462		13.00	12.23
		1	2412		13.00	12.32
	802.11ax20-HE0	6	2437	MCS0	13.00	12.22
		11	2462	1	13.00	12.25
		3	2422		13.00	12.27
	802.11n40-HT0	6	2437	MCS0	13.00	12.21
		9	2452]	13.00	12.33
		3	2422		13.00	12.36
	802.11ac40-VHT0	6	2437	MCS0	13.00	12.31
		9	2452]	13.00	12.32
		3	2422		13.00	12.35
	802.11ax40-HE0	6	2437 MCS0	13.00	12.28	
		9	2452		13.00	12.23

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		An	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		12.00	11.38
	802.11a	40	5200	6Mbps	12.00	11.32
	002.11a	44	5220	Olvibbs	12.00	11.39
		48	5240		12.00	11.33
		36	5180		12.00	11.34
	802.11n20-HT0	40	5200	MCS0	12.00	11.24
	002.111120-1110	44	5220	WICOU	12.00	11.29
		48	5240		12.00	11.29
		36	5180	MCS0	12.00	11.27
	802.11ac20-VHT0	40	5200		12.00	11.28
	002.118020-11110	44	5220		12.00	11.33
5.15-5.25 GHz		48	5240		12.00	11.25
J. 13-3.23 GHZ		36	5180		12.00	11.39
	802.11ax20-HE0	40	5200	MCS0	12.00	11.22
	002.11ax20-11L0	44	5220	IVICSU	12.00	11.31
		48	5240		12.00	11.22
	802.11n40-HT0	38	5190	MCS0	12.00	11.79
	002.111140-1110	46	5230	MCSO	12.00	11.45
	802.11ac40-VHT0	38	5190	MCS0	12.00	11.25
	002.11a040-VIII0	46	5230	IVICOU	12.00	11.28
	802.11ax40-HE0	38	5190	MCS0	12.00	11.23
		46	5230		12.00	11.36
	802.11ac80-VHT0	42	5210	MCS0	12.00	11.60
	802.11ax80-HE0	42	5210	MCS0	12.00	11.20

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		An	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		12.00	11.36
	802.11a	56	5280	6Mbps	12.00	11.39
	002.11a	60	5300	Olvibbs	12.00	11.21
		64	5320		12.00	11.33
		52	5260		12.00	11.24
	802.11n20-HT0	56	5280	MCS0	12.00	11.31
	002.111120-1110	60	5300	IVICSO	12.00	11.23
		64	5320		12.00	11.25
		52	5260	MCS0	12.00	11.39
	802.11ac20-VHT0	56	5280		12.00	11.29
	002.11ac20-V1110	60	5300		12.00	11.28
5.25-5.35 GHz		64	5320		12.00	11.32
3.23-3.33 GHZ		52	5260		12.00	11.22
	802.11ax20-HE0	56	5280	MCS0	12.00	11.38
	002.11ax20-11L0	60	5300	IVICSU	12.00	11.30
		64	5320		12.00	11.38
	802.11n40-HT0	54	5270	MCS0	12.00	11.88
	002.111140-1110	62	5310	IVICOU	12.00	11.86
	802.11ac40-VHT0	54	5270	MCS0	12.00	11.26
	002.11a040-VITIU	62	5310	IVICOU	12.00	11.31
	802.11ax40-HE0	54	5270	MCS0	12.00	11.25
_	002.11ax+0-11E0	62	5310	IVICOU	12.00	11.31
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.96
	802.11ax80-HE0	58	5290	MCS0	12.00	11.39

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		Ant Main								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		100	5500		12.00	11.31				
	000.44=	120	5600	CMbas	12.00	11.33				
	802.11a	140	5700	6Mbps	12.00	11.30				
		144	5720		12.00	11.33				
		100	5500		12.00	11.34				
	802.11n20-HT0	120	5600	MCS0	12.00	11.32				
	002.111120 - 1110	140	5700	MCSU	12.00	11.39				
		144	5720		12.00	11.27				
		100	5500		12.00	11.39				
	802.11ac20-VHT0	120	5600	MCS0	12.00	11.28				
	002.11ac20-V1110	140	5700	IVICOU	12.00	11.30				
		144	5720		12.00	11.33				
		100	5500		12.00	11.39				
	802.11ax20-HE0	120	5600	MCS0	12.00	11.38				
	002.11ax20-11L0	140	5700	IVICSU	12.00	11.22				
		144	5720		12.00	11.38				
5.6GHz		102	5510		12.00	11.23				
3.0GHZ	802.11n40-HT0	118	5590	MCS0	12.00	11.33				
	002.111140-1110	134	5670	IVICOU	12.00	11.32				
		142	5710		10.37	9.64				
		102	5510		12.00	11.37				
	802.11ac40-VHT0	118	5590	MCS0	12.00	11.24				
	002.11a040-V1110	134	5670	IVICSO	12.00	11.21				
		142	5710		10.37	9.68				
		102	5510	_	12.00	11.25				
	802.11ax40-HE0	118	5590	MCS0	12.00	11.21				
	002.118A40-11EU	134	5670	101000	12.00	11.36				
		142	5710		10.60	9.85				
		106	5530	_	12.00	11.74				
	802.11ac80-VHT0	122	5610	MCS0	12.00	11.32				
		138	5690		12.00	11.63				
		106	5530	_	12.00	11.39				
	802.11ax80-HE0	122	5610	MCS0	12.00	11.33				
		138	5690		12.00	11.28				

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		An	t Main			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		12.00	11.39
	802.11a	157	5785	6Mbps	12.00	11.23
		165	5825		12.00	11.29
		149	5745		12.00	11.27
	802.11n20-HT0	157	5785	MCS0	12.00	11.37
		165	5825		12.00	11.27
		149	5745	MCS0	12.00	11.37
	802.11ac20-VHT0	157	5785		12.00	11.26
		165	5825		12.00	11.25
5.8GHz		149	5745		12.00	11.28
3.00112	802.11ax20-HE0	157	5785	MCS0	12.00	11.35
		165	5825		12.00	11.24
	802.11n40-HT0	151	5755	MCS0	12.00	11.46
	002.111140-1110	159	5795	IVICSU	12.00	11.80
	802.11ac40-VHT0	151	5755	MCS0	12.00	11.29
	002.11a040-VITTU	159	5795	IVICSU	12.00	11.35
	802.11ax40-HE0	151	5755	MCS0	12.00	11.29
	002.11ax40-11EU	159	5795	INICSU	12.00	11.21
	802.11ac80-VHT0	155	5775	MCS0	12.00	11.86
	802.11ax80-HE0	155	5775	MCS0	12.00	11.36

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		Ar	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		13.00	12.51
	802.11b	6	2437	1Mbps	13.00	12.43
		11	2462		13.00	12.76
		1	2412		13.00	12.36
	802.11g	6	2437	6Mbps	13.00	12.26
		11	2462		13.00	12.32
	802.11n20-HT0	1	2412	MCS0	13.00	12.30
		6	2437		13.00	12.37
		11	2462		13.00	12.25
	802.11ac20-VHT0	1	2412	MCS0	13.00	12.31
		2	2417		13.00	12.32
		6	2437		13.00	12.38
2.45GHz		10	2457		13.00	12.30
2.43GHZ		11	2462		13.00	12.28
		1	2412		13.00	12.31
	802.11ax20-HE0	6	2437	MCS0	13.00	12.25
		11	2462		13.00	12.21
		3	2422		13.00	12.25
	802.11n40-HT0	6	2437	MCS0	13.00	12.24
		9	2452	1	13.00	12.36
		3	2422		13.00	12.32
	802.11ac40-VHT0	6	2437	MCS0	13.00	12.38
		9	2452	1	13.00	12.37
		3	2422		13.00	12.22
	802.11ax40-HE0	6	2437	MCS0	13.00	12.28
		9	2452		13.00	12.24

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Ant Aux								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		36	5180		12.00	11.31		
	802.11a	40	5200	6Mbps	12.00	11.29		
	002.11a	44	5220	Glylibhs	12.00	11.39		
		48	5240		12.00	11.25		
		36	5180		12.00	11.25		
	802.11n20-HT0	40	5200	MCS0	12.00	11.31		
		44	5220		12.00	11.39		
		48	5240		12.00	11.22		
	802.11ac20-VHT0	36	5180	MCS0	12.00	11.34		
		40	5200		12.00	11.36		
		44	5220		12.00	11.24		
5.15-5.25 GHz		48	5240		12.00	11.39		
3.13-3.23 GHZ		36	5180		12.00	11.26		
	802.11ax20-HE0	40	5200	MCS0	12.00	11.35		
	002.118X20-DE0	44	5220	IVICSO	12.00	11.29		
		48	5240		12.00	11.21		
	802.11n40-HT0	38	5190	MCS0	12.00	11.89		
	002.111140-1110	46	5230	WCSO	12.00	11.54		
	802.11ac40-VHT0	38	5190	MCS0	12.00	11.40		
	002.11a040-VIII0	46	5230	IVICOU	12.00	11.20		
	802.11ax40-HE0	38	5190	MCS0	12.00	11.33		
		46	5230	IVICOU	12.00	11.33		
	802.11ac80-VHT0	42	5210	MCS0	12.00	11.65		
	802.11ax80-HE0	42	5210	MCS0	12.00	11.32		

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Ant Aux								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		52	5260		12.00	11.21		
	802.11a	56	5280	6Mbps	12.00	11.39		
	002.11a	60	5300	Olvibbs	12.00	11.37		
		64	5320		12.00	11.33		
		52	5260		12.00	11.31		
	802.11n20-HT0	56	5280	MCS0	12.00	11.26		
		60	5300		12.00	11.22		
		64	5320		12.00	11.20		
	802.11ac20-VHT0	52	5260	MCS0	12.00	11.31		
		56	5280		12.00	11.33		
		60	5300		12.00	11.24		
5.25-5.35 GHz		64	5320		12.00	11.21		
3.23-3.33 GHZ		52	5260		12.00	11.22		
	802.11ax20-HE0	56	5280	MCS0	12.00	11.30		
	002.118/20-1120	60	5300	IVICSO	12.00	11.39		
		64	5320		12.00	11.25		
	802.11n40-HT0	54	5270	MCS0	12.00	11.76		
	002.1111 1 0-1110	62	5310	WOOO	12.00	11.85		
	802.11ac40-VHT0	54	5270	MCS0	12.00	11.25		
	002.11a040-VIII0	62	5310	IVICOU	12.00	11.25		
	802.11ax40-HE0	54	5270	MCS0	12.00	11.26		
		62	5310	IVICOU	12.00	11.36		
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.47		
	802.11ax80-HE0	58	5290	MCS0	12.00	11.22		

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		Ar	Ant Aux									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)						
	802.11a		5500 5600 5700	- 6Mbps	12.50 12.50 12.50	11.88 11.77 11.89						
	802.11n20-HT0	144 100 120 140 144	5720 5500 5600 5700 5720	MCS0	12.50 12.50 12.50 12.50 12.50	11.88 11.90 11.74 11.74 11.84						
	802.11ac20-VHT0	100 120 140 144	5500 5600 5700 5720	MCS0	12.50 12.50 12.50 12.50 11.92	11.84 11.81 11.72 11.20						
	802.11ax20-HE0	100 120 140 144	5500 5600 5700 5720	MCS0	12.50 12.50 12.50 12.20	11.89 11.77 11.80 11.58						
5.6GHz	802.11n40-HT0	102 118 134 142	5510 5590 5670 5710	MCS0	12.50 12.50 12.50 9.35	12.39 11.71 12.06 8.66						
	802.11ac40-VHT0	102 118 134 142	5510 5590 5670 5710	MCS0	12.50 12.50 12.50 12.50 9.35	11.80 11.79 11.80 8.58						
	802.11ax40-HE0	102 118 134 142	5510 5590 5670 5710	MCS0	12.50 12.50 12.50 9.70	11.74 11.82 11.87 8.95						
	802.11ac80-VHT0	106 122 138	5530 5610 5690	MCS0	12.50 12.50 7.63	12.41 12.17 6.88						
	802.11ax80-HE0	106 122 138	5530 5610 5690	MCS0	12.50 12.50 7.92	11.75 11.88 7.23						

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	Ant Aux								
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		149	5745		12.00	11.37			
	802.11a	157	5785	6Mbps	12.00	11.39			
		165	5825		12.00	11.39			
		149	5745		12.00	11.25			
	802.11n20-HT0	157	5785	MCS0	12.00	11.24			
		165	5825		12.00	11.23			
	802.11ac20-VHT0	149	5745	MCS0	12.00	11.23			
		157	5785		12.00	11.24			
		165	5825		12.00	11.36			
5.8GHz		149	5745		12.00	11.21			
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	12.00	11.36			
		165	5825		12.00	11.22			
	902 11n40 UTO	151	5755	MCS0	12.00	11.72			
	802.11n40-HT0	159	5795	1 IVICSU	12.00	11.67			
	802.11ac40-VHT0	151	5755	MCS0	12.00	11.21			
	002.118040-77110	159	5795	IVICSU	12.00	11.29			
	000 4440 UE0	151	5755	MCS0	12.00	11.29			
	802.11ax40-HE0	159	5795	INICSU	12.00	11.27			
	802.11ac80-VHT0	155	5775	MCS0	12.00	11.44			
	802.11ax80-HE0	155	5775	MCS0	12.00	11.40			

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Bluetooth conducted power table:

Biactootii conaactca power tabic.									
			1Mbps		2Mbps		3Mbps		
Mode	Channel	Frequency (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
	CH 00	2402	11.41	11.13	8.44	8.25	8.44	8.42	
BR/EDR	CH 39	2441	11.31	11.30	8.31	8.29	8.31	8.28	
	CH 78	2480	11.44	11.25	8.54	8.51	8.54	8.51	

Mode	Channel	Frequency	(GFSK
Mode	Charmer	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
	CH 00	2402	11.41	7.31
Bluetooth 4.0_1M	CH 19	2440	11.34	7.77
	CH 39	2480	11.21	8.01

Mode Channe		Frequency	(GFSK
Mode	Criannei	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
	CH 00	2402	11.41	7.29
Bluetooth 4.0_2M	CH 19	2440	11.20	7.14
	CH 39	2480	11.38	7.48

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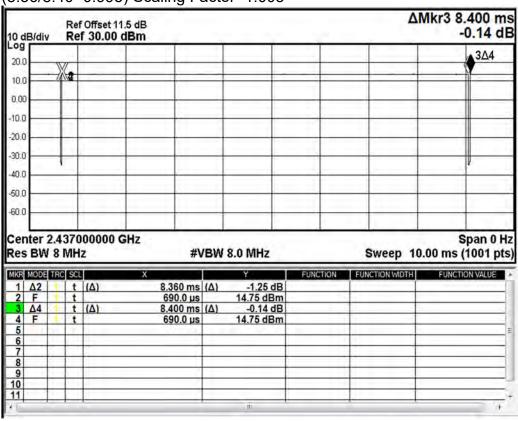
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2.4G b duty

(8.36/8.40=0.995) Scaling Factor=1.005



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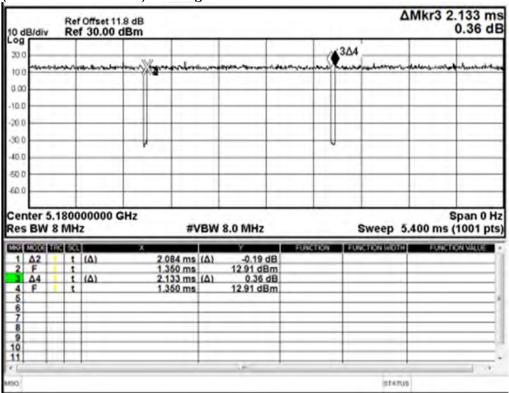
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5G a duty

(2.084/2.133=0.977) Scaling Factor=1.023



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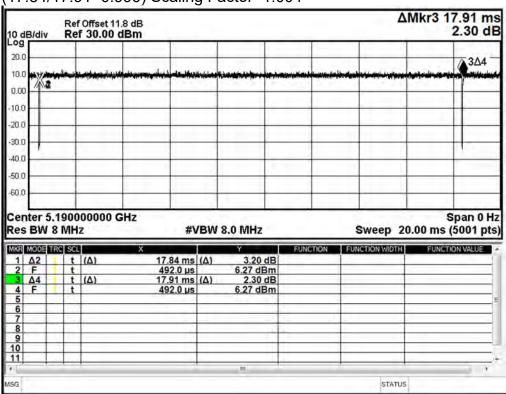
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5G n40 duty

(17.84/17.91=0.996) Scaling Factor=1.004



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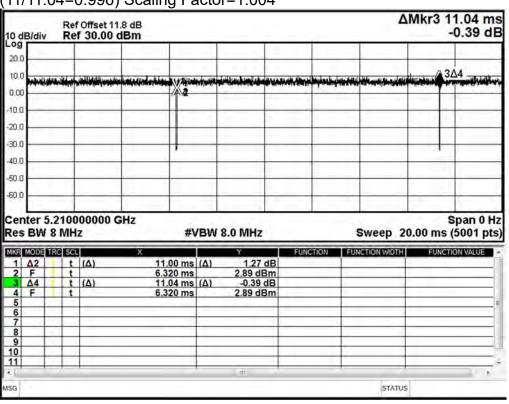
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5G ac80 duty

(11/11.04=0.996) Scaling Factor=1.004



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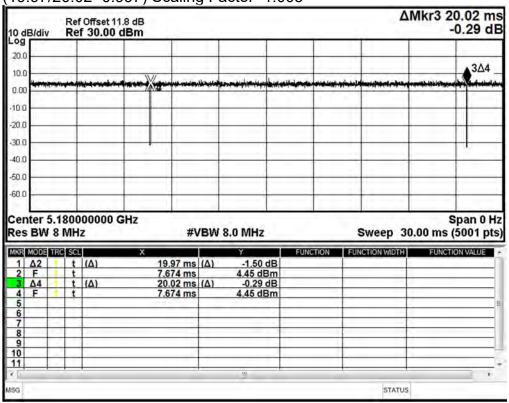
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5G ax(20M) duty

(19.97/20.02=0.997) Scaling Factor=1.003



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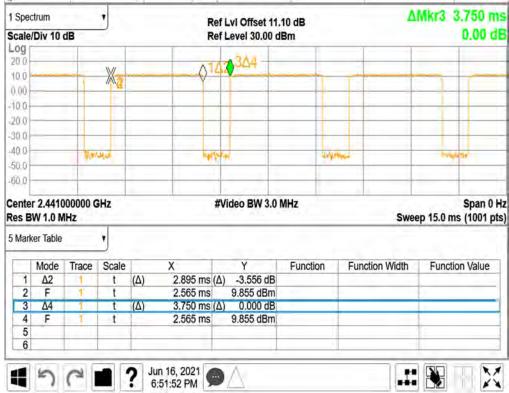
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BT duty (2.895/3.75=0.772) Scaling Factor=1.295



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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.

Laptop mode

SAR is measured with display screen open at 90 degree and bottom side of keyboard touch against the flat phantom.

Tablet mode

SAR is measured with back/edges touch against the flat phantom.

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 since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

Initial Test Configuration:

4. An initial test configuration is determined for OFDM transmission modes

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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. 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.
- 7. 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.
- 8. 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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1.6 Operating modes validation by power measurement

The device is a convertible laptop computer with predefined single fixed power to each device modes.

For the operating modes validation, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

DUT operating mode	Lid Angle description	WLAN TX state
Lid-close	0° ≤ Lid angle < 30°	No TX transmission
Notebook	30° ≤ Lid angle < 200°	Full Power Level
Tablet	200° ≤ Lid angle ≤ 360°	Reduced Power Level

1.6.1 Results and conclusion

The measured output power versus lid angle is tabulated in the following table based on the guidance from 2019-11 TCB workshop, and the triggering verification complies with the device mode / power level declared by the manufacturer.

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Operating mode validation by power measurement

			(Opera	atıng m	ode '	valida	ation by	y pow	ver m	easure	ment			
Operation	n mode	Lid angle 0°	802.11b 0.00	WLAN 802.11a 5.2G 0.00	WLAN 802.11n(40M) 5.2G 0.00	802.11ac(80M) 5.2G 0.00	WLAN 802.11a 5.3G 0.00	WLAN 802.11n(40M) 5.3G 0.00	802.11ac(80M) 5.3G 0.00	WLAN 802.11a 5.6G 0.00	WLAN 802.11ax(20M) 5.6G 0.00	802.11ac(80M) 5.6G 0.00	WLAN 802.11a 5.8G 0.00	WLAN 802.11n(40M) 5.8G 0.00	802.11ac(80M) 5. 0.00
Lid clo	lose	10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lapto	ор	20° 30°	0.00 19.44	0.00 18.73	0.00 16.77	0.00 13.25	0.00 18.52	0.00 17.26	0.00 13.62	0.00 18.92	0.00 17.45	0.00 14.53	0.00 19.88	0.00 16.81	0.00 15.76
		25° 26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lid clo	lose	27°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	_	28° 29°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		30°	19.45	18.65 18.72	16.84 16.82	13.30	18.49 18.48	17.26	13.63 13.60	18.87 18.84	17.44 17.50	14.53 14.52	19.92 19.86	16.77 16.74	15.73 15.77
		32°	19.37	18.70	16.86	13.21	18.44	17.21	13.53	18.92	17.44	14.55	19.94	16.80	15.77
	_	33° 34°	19.41 19.44	18.71 18.64	16.77 16.87	13.29 13.21	18.53 18.44	17.18 17.17	13.57 13.59	18.87 18.85	17.44 17.48	14.54 14.49	19.85 19.87	16.81 16.76	15.73 15.74
		35°	19.39	18.73	16.80	13.27	18.53	17.19	13.54 13.61	18.86	17.48	14.50	19.86	16.83	15.74
		45° 55°	19.45 19.39	18.74 18.74	16.83 16.80	13.21 13.23	18.54 18.51	17.26 17.17	13.60	18.83 18.85	17.45 17.45	14.55 14.51	19.94 19.92	16.80 16.74	15.80 15.81
		65° 75°	19.37 19.40	18.67 18.64	16.84 16.81	13.28 13.26	18.54 18.49	17.21 17.27	13.56 13.60	18.87 18.85	17.54 17.48	14.59 14.51	19.89 19.93	16.83 16.76	15.74 15.82
Lapto	top	85°	19.40	18.71	16.79	13.25	18.46	17.20	13.53	18.87	17.53	14.59	19.87	16.82	15.79
	. –	95° 105°	19.45 19.46	18.74 18.72	16.87 16.79	13.27 13.22	18.45 18.45	17.26 17.19	13.57 13.57	18.85 18.92	17.45 17.48	14.59 14.51	19.93 19.94	16.77 16.79	15.74 15.74
		115°	19.40	18.72	16.78	13.26	18.50 18.53	17.20	13.53	18.82 18.90	17.52 17.49	14,49	19.94	16.73	15.75
		125°	19.42	18.71	16.80	13.29	18.44	17.19	13.63	18.82	17.52	14.53	19.87	16.73	15.75
	_	145°	19.39	18.67 18.64	16.82 16.80	13.30	18.53 18.51	17.26 17.24	13.58	18.90 18.85	17.45 17.51	14.56 14.56	19.88 19.88	16.73 16.75	15.73 15.82
		165°	19.45	18.70	16.79	13.24	18.45	17.18	13.58	18.83	17.47	14.49	19.87	16.73	15.75
		175° 185°	19.47 19.44	18.68 18.64	16.87 16.80	13.21 13.27	18.44 18.52	17.20 17.26	13.54 13.62	18.91 18.89	17.54 17.48	14.49 14.50	19.90 19.94	16.82 16.76	15.75 15.81
		195° 205°	19.47 12.95	18.74 11.29	16.79 11.78	13.25 11.51	18.44 11.30	17.21 11.87	13.58 11.90	18.90 11.29	17.45 11.39	14.59 11.65	19.85 11.30	16.73 11.71	15.82 11.86
Table	olet	200°	12.91	11.38	11.78	11.53	11.39	11.81	11.91	11.27	11.37	11.65	11.38	11.73	11.84
	_	195°	19.43	18.73	16.87	13.30	18.44 18.44	17.24 17.17	13.57	18.88 18.85	17.46 17.50	14.51 14.57	19.88	16.77 16.78	15.80 15.79
Lapto	top	197°	19.38	18.74	16.80	13.26	18.52	17.24	13.60	18.82	17.48	14.54	19.88	16.73	15.73
L		198° 199°	19.43 19.47 12.92	18.69 18.73	16.87 16.87	13.25 13.25	18.53 18.46	17.26 17.26	13.55 13.59	18.84 18.92	17.47 17.50	14.52 14.57 11.55	19.90 19.92	16.76 16.82	15.75 15.76
	F	200°	12.92	11.23 11.27	11.69 11.76	11.48 11.51	11.22	11.79 11.82	11.90 11.83	11.28 11.20	11.29 11.37	11.55 11.60	11.30 11.21	11.66 11.70	11.86 11.79
		202°	12.91 12.85 12.90	11.27 11.23 11.29	11.76 11.72 11.74	11.51 11.43 11.47	11.21	11.82 11.84 11.87	11.83 11.80 11.81	11.22	11.37 11.39 11.30	11.60 11.59 11.57	11.21 11.20 11.21	11.63 11.71	11.79 11.78 11.82
	-	203° 204°	12.87	11.26	11.72	11.44	11.23 11.28	11.86	11.87	11.23 11.23	11.35	11.56		11.69	11.76
		205° 215°	12.90 12.89	11.22 11.19	11.71 11.78	11.46 11.41	11.26 11.26	11.80 11.78	11.82 11.85	11.25 11.23	11.29 11.39	11.58 11.64	11.22 11.21	11.70 11.71	11.76 11.78
		215°	12.95	11.22	11.73	11.51	11.25	11.86	11.83	11.29	11.31	11.63	11.30	11.69	11.79
	_	235° 245°	12.94 12.89	11.26 11.25	11.75 11.68	11.49 11.45	11.24 11.21	11.82 11.86	11.80 11.88	11.29 11.27	11.32 11.34	11.65 11.55	11.20 11.25	11.65 11.68	11.76 11.81
Table	et	255°	12.86	11.23	11.75	11.41	11.28	11.82	11.83	11.22	11.32	11.62	11.24	11.69	11.79
		265° 275°	12.92 12.91	11.28 11.24	11.77 11.69	11.49 11.43	11.30 11.20	11.79 11.78	11.81	11.19 11.29	11.37 11.34	11.61 11.65	11.23 11.30	11.70 11.69	11.81 11.78
		285°	12.90	11.27	11.73	11.51	11.25	11.82	11.84	11.26	11.32	11.63	11.22	11.62	11.76
		295° 305°	12.91 12.88	11.26 11.21	11.75 11.78	11.46 11.41	11.27 11.30	11.82 11.87	11.80 11.90	11.22 11.21	11.30 11.32	11.61 11.61	11.20 11.28	11.62 11.64	11.82 11.78
	_	315° 325°	12.93 12.90	11.28 11.19	11.70 11.70	11.47 11.45	11.29 11.24	11.77 11.79	11.83 11.83	11.25 11.20	11.37 11.38	11.59 11.60	11.26 11.23	11.61 11.70	11.86 11.83
		335°	12.93	11.22	11.69	11.44	11.26	11.81	11.85	11.28	11.29	11.57	11.30	11.71	11.85
		345° 355°	12.92 12.90	11.25 11.26	11.74 11.77	11.46 11.42	11.30 11.22	11.77 11.78	11.87 11.82	11.20 11.27	11.34 11.35	11.61 11.55	11.27 11.29	11.64 11.64	11.77 11.76
-		360° 350°	12.86 12.94	11.29 11.19	11.77 11.71	11.47 11.46	11.26 11.26	11.78 11.81	11.83 11.88	11.20 11.23	11.37 11.33	11.55 11.62	11.20 11.30	11.66 11.70	11.83 11.85
		340°	12.87	11.28	11.75	11.46	11.23	11.85	11.83	11.23	11.34	11.56	11.29	11.64	11.83
		330° 320°	12.86 12.94	11.25 11.20	11.72 11.68	11.48 11.42	11.26 11.25	11.81 11.78	11.90 11.84	11.24 11.22	11.34 11.35	11.63 11.63	11.22 11.22	11.70 11.66	11.78 11.80
		310° 300°	12.89 12.94	11.22 11.24	11.74 11.69	11.48 11.41	11.28 11.26	11.81 11.85	11.88 11.80	11.24 11.22	11.34 11.36	11.60 11.60	11.24 11.29	11.69 11.70	11.78 11.77
		290°	12.95	11.28	11.78	11.41	11.26	11.80	11.89	11.20	11.29	11.62	11.30	11.61	11.78
Table	olet	280° 270°	12.85 12.86	11.21 11.24	11.69 11.72	11.44	11.22 11.23	11.85 11.77	11.83	11.23 11.26	11.33 11.33	11.65 11.63	11.26 11.30	11.68 11.68	11.86 11.83
		270° 260°	12.86 12.92 12.89	11.24	11.72 11.72	11.48 11.43	11.23 11.28 11.26	11.77 11.85	11.87 11.81	11.26 11.21	11.33 11.31	11.63 11.58	11.30 11.21	11.68 11.63	11.83 11.84 11.76
		240°	12.89	11.22 11.25	11.71 11.78	11.42 11.42	11.27	11.80 11.77	11.85 11.80	11.26 11.26	11.30	11.58 11.56	11.27 11.26	11.66 11.65	11.86
	_	230°	12.88	11.20	11.74	11.51	11.23	11.78	11.85	11.25 11.27	11.35 11.38	11.62 11.63	11.30	11.61	11.86
		210°	12.94	11.22	11.69	11.42	11.29	11.85	11.84	11.22	11.38	11.61	11.21	11.63	11.80
Lapto		200° 190° 196°	12.91 19.39 19.46	11.29 18.74	11.73 16.82	11.51 13.30	11.23 18.54	11.85 17.27 17.20	11.88 13.61	11.19 18.86	11.38 17.53 17.51	11.57 14.56	11.27 19.95	11.63 16.74 16.74	11.84 15.74 15.74
Table		195° 200°	19.46 12.86	18.67 11.26	16.78 11.69	13.30	18.51 11.25	17.20 11.77	13.61	18.86 11.29	17.51 11.31	14.55 11.55	19.91 11.25	16.74 11.62	15.74 11.78
idDle		199°	19.42	18.66	16.81	13.23	18.50	17.23	13.59	18.82	17.54	14.54	19.90	16.83	15.78
		198°	19.41 19.39	18.73 18.65	16.79 16.79	13.28 13.27	18.47 18.44	17.22 17.26	13.62 13.62	18.88 18.82	17.48 17.45	14.52 14.54	19.92 19.85	16.80 16.81	15.77 15.78
		197° 196° 196°	19.41 19.43	18.67 18.74	16.84 16.78	13.20 13.20	18.44 18.51 18.51	17.26 17.26 17.26	13.62 13.60 13.60	18.82 18.91 18.92	17.45 17.50 17.44	14.57 14.57	19.85 19.93 19.94	16.80 16.73	15.78 15.77 15.80
		194°	19.41	18.70	16.85	13.28	18.52	17.22	13.59	18.88	17.45	14.55	19.85	16.81	15.81
	F	193° 192°	19.38 19.45	18.71 18.64	16.87 16.84	13.27 13.26	18.54 18.47	17.26 17.25	13.61 13.53	18.84 18.89	17.51 17.51	14.55 14.56	19.86 19.93	16.83 16.81	15.83 15.74
		191°	19.39	18.67	16.80	13.26	18.50	17.24	13.55	18.82	17.53	14.51	19.94	16.82	15.80
	F	190° 180°	19.44 19.41	18.64 18.74	16.77 16.85	13.29	18.51 18.45	17.23 17.22	13.59	18.84 18.82	17.46 17.46	14.58 14.50	19.90 19.90	16.81 16.78	15.75 15.74
		170°	19.46	18.67	16.81	13.24	18.49	17.20	13.57	18.84	17.50	14.54	19.94	16.76	15.74
Lapto	top	160° 150°	19.37 19.40	18.71 18.68	16.87 16.81	13.25	18.49 18.52	17.18 17.19	13.56 13.62	18.89 18.88	17.49 17.45	14.57 14.55	19.87 19.88	16.77 16.83	15.74 15.83
		150° 140°	19.40 19.39	18.68 18.70	16.81 16.80	13.21 13.28	18.52 18.51	17.19 17.22	13.62	18.88 18.87	17.45 17.54	14.55 14.54		16.83 16.83	15.83 15.82
	-	130° 120°	19.43 19.40	18.73 18.68	16.85 16.87	13.26 13.25	18.45 18.49	17.18 17.20	13.57 13.57	18.82 18.83	17.46 17.52	14.56 14.50	19.91 19.90	16.75 16.79	15.82 15.83
		110°	19.37	18.72	16.77	13.25	18.44	17.26	13.60	18.90	17.52	14.54	19.89	16.75	15.79
	E	100° 90°	19.37 19.43	18.70 18.72	16.78 16.85	13.22 13.28	18.54 18.50	17.18 17.26	13.61 13.53	18.86 18.83	17.46 17.50	14.52 14.49	19.92 19.90	16.79 16.75	15.74 15.73
	F	80° 70°	19.37 19.44	18.68 18.71	16.87 16.80	13.30 13.25	18.48 18.49	17.17 17.23	13.55 13.59	18.89 18.89	17.46 17.47	14.53 14.58	19.92 19.88	16.75 16.74	15.77 15.75
		60°	19.46	18.67	16.83	13.30	18.52	17.24	13.63	18.87	17.53	14.59	19.94	16.76	15.74
	F	50°	19.42 19.47	18.73	16.80 16.77	13.25	18.50	17.19 17.21	13.56	18.90	17.52 17.44	14.49	19.92 19.86	16.80	15.78 15.76
L		40° 30°	19.45	18.68 18.72	16.85	13.22 13.26	18.51 18.50	17.24	13.60 13.57	18.86 18.84	17.50	14.49 14.53	19.89	16.73 16.77	15.77
Lid clo	lose	20°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lapto		25°	19.42	18.67	16.80	13.27	18.48	17.20	13.58	18.91	17.51	14.55	19.87	16.82	15.78
	F	29° 28°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		28° 27°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1		26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		25° 24°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 10		23°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lid old	iose		0.00	0.00	0.00										
Lid clo	lose	22° 21°	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lid clo	lose		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00		0.00 0.00 0.00

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Operation mode	Lid angle 0°	802.11b 0.00	WLAN 802.11a 5.2G 0.00	WLAN 802.11n(40M) 5.2G 0.00	802.11ac(80M) 5.2G 0.00	WLAN 802.11a 5.3G 0.00	WLAN 802.11n(40M) 5.3G 0.00	802.11ac(80M) 5.3G 0.00	WLAN 802.11a 5.6G 0.00	WLAN 802.11n(40M) 5.6G 0.00	802.11ac(80M) 5.6G 0.00	WLAN 802.11a 5.8G 0.00	WLAN 802.11n(40M) 5.8G 0.00	802.11ac(80N 0.00
Lid close	10° 20°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Laptop	30° 25°	18.83	18.21	16.41 0.00	12.97	18.41 0.00	16.73 0.00	13.30	17.11	16.63 0.00	13.68	19.23 0.00	16.63 0.00	15.42 0.00
	26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lid close	27° 28°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	29° 30°	0.00	0.00 18.26	0.00 16.39	0.00 12.99	0.00 18.40	0.00 16.76	0.00 13.30	0.00 17.08	0.00 16.61	0.00 13.67	0.00 19.28	0.00 16.61	0.00
	31°	18.85	18.23	16.41	13.01	18.40	16.78	13.28	17.14	16.58	13.69	19.23	16.58	15.40
	32° 33°	18.83 18.84	18.20 18.19	16.38 16.43	12.99 13.03	18.40 18.40	16.78 16.76	13.31 13.34	17.14 17.16	16.61 16.62	13.67 13.76	19.26 19.24	16.61 16.54	15.4 15.4
	34° 35°	18.86 18.81	18.25 18.18	16.39 16.42	12.98 12.99	18.34 18.41	16.77 16.79	13.36 13.29	17.13 17.14	16.59 16.64	13.69 13.77	19.27 19.21	16.55 16.59	15.4 15.4
	45°	18.86	18.21	16.40	12.99	18.34	16.75	13.31	17.11	16.64	13.71	19.28	16.57	15.4
	55°	18.77 18.78	18.25 18.24	16.45 16.43	13.04 12.99	18.33 18.41	16.77 16.70	13.29 13.34	17.08 17.10	16.61 16.62	13.76 13.71	19.26 19.21	16.60 16.54	15.4 15.4
	75° 85°	18.87 18.79	18.24 18.19	16.38 16.36	12.99 13.00	18.41 18.34	16.78 16.72	13.35 13.27	17.09 17.13	16.61 16.57	13.72 13.68	19.18 19.19	16.60 16.62	15.4 15.4
Laptop	95°	18.79	18.23	16.43	12.99	18.33	16.72	13.30	17.13	16.56	13.73	19.26	16.64	15.
	105° 115°	18.81 18.83	18.17 18.21	16.40 16.46	13.02 13.01	18.40 18.41	16.77 16.79	13.34 13.37	17.08 17.06	16.59 16.59	13.77 13.74	19.25 19.23	16.58 16.56	15. 15.
	125°	18.80	18.16	16.36	13.07	18.37	16.76	13.36	17.09 17.06	16.62	13.75	19.21	16.63	
	135° 145°	18.81 18.83	18.25 18.23	16.43 16.41	12.98 13.05	18.33 18.32	16.74 16.72	13.30 13.32	17.13	16.60 16.60	13.75 13.69 13.72	19.21 19.28	16.59 16.64	15. 15.
	155° 165°	18.83 18.85	18.17 18.17	16.46 16.46	13.01	18.34 18.37	16.79 16.75	13.28 13.30	17.15 17.08	16.64 16.64	13.72	19.23 19.20	16.57 16.57	15. 15. 15.
	175° 185°	18.87 18.87	18.16 18.26	16.43 16.43	13.02	18.31 18.34	16.70 16.75	13.31 13.27	17.07 17.15	16.60 16.63	13.68	19.22 19.28	16.56 16.60	15
	195°	18.83	18.22	16.42	13.03	18.39	16.73	13.32	17.12	16.62	13.68	19.28	16.60	15.
Tablet	205° 200°	12.68 12.73	11.35 11.32	11.81 11.88	11.58 11.65	11.39 11.35	11.83 11.84	11.37 11.38	11.79 11.86	12.33 12.31	12.35 12.33	11.36 11.39	11.63 11.67	11.
	195° 196°	18.80 18.78	18.20 18.21	16.38 16.37	13.06 13.02	18.32 18.38	16.71 16.80	13.37 13.34	17.10 17.14	16.64 16.61	13.73	19.19 19.23	16.54 16.58	15. 15.
Laptop	197° 198°	18.84	18.21 18.18	16.40	13.00	18.37 18.32	16.73 16.78	13.35 13.34	17.14 17.15 17.06	16.60 16.63	13.74 13.77	19.23	16.56 16.58	15. 15.
	199°	18.85 18.83	18.22	16.36 16.38	13.01	18.32 18.34	16.76	13.37	17.16	16.56	13.76	19.28 19.19	16.54	15.
	200° 201°	12.67 12.75	11.36 11.34	11.84 11.85	11.59 11.56	11.38 11.39	11.83 11.81	11.43 11.40	11.83 11.87	12.33 12.34	12.32 12.39	11.29 11.29	11.64 11.66	11 11
	202°	12.75	11.30	11.81	11.56	11.36	11.76	11.37	11.88	12.36	12.35	11.30	11.64	11.
	203° 204°	12.70 12.66	11.31 11.31	11.82 11.81	11.56 11.59	11.36 11.34	11.78 11.80	11.46 11.38	11.81 11.82	12.39 12.32	12.39 12.36	11.30 11.34	11.67 11.65	11 11
	205° 215°	12.75 12.74	11.33 11.36	11.85 11.85	11.59 11.64	11.33 11.38	11.84 11.85	11.42 11.42	11.86 11.85	12.32 12.32	12.32 12.33	11.31 11.35	11.72 11.62	11 11
	225°	12.70	11.29	11.80	11.58	11.32	11.85	11.42	11.80	12.34	12.39	11.36 11.36 11.33	11.64	11.
	235° 245°	12.67 12.68	11.37 11.39	11.89 11.88	11.60 11.58	11.29 11.29	11.79 11.76	11.46 11.41	11.83 11.87	12.30 12.39	12.36 12.33	11.33 11.30	11.65 11.67	11 11
Tablet	255° 265°	12.66 12.66	11.37 11.33	11.84 11.88	11.63 11.63	11.34 11.31	11.82 11.79	11.40 11.37	11.85 11.85	12.39 12.32	12.37 12.37	11.31 11.32	11.65 11.72	11 11
	275°	12.76	11.30	11.86	11.61	11.29	11.78	11.40	11.81	12.36	12.35	11.30	11.70	
	285° 295°	12.73 12.69	11.33 11.39	11.88 11.80	11.60 11.65	11.34 11.31	11.80 11.82	11.38 11.45	11.81 11.86	12.38 12.38	12.34 12.40	11.36 11.29	11.66 11.69	11.
	305° 315°	12.76 12.73	11.35 11.34	11.88 11.81	11.64 11.64	11.37	11.80 11.78	11.39	11.82 11.82	12.32 12.37	12.36 12.35	11.33	11.72	11.
	325°	12.76	11.37	11.79	11.63	11.37	11.78	11.45	11.85	12.34	12.33	11.35	11.62	- 11
	335° 345°	12.68	11.39 11.39	11.80 11.80	11.63 11.65	11.34 11.36	11.75 11.79	11.39 11.37	11.85 11.81	12.33 12.31	12.41 12.39	11.30 11.39	11.66 11.62	11.
	355° 360°	12.67	11.29 11.33	11.81 11.87	11.57 11.56	11.35 11.37	11.85 11.79	11.38 11.47	11.79 11.83	12.38 12.34	12.39 12.36	11.39 11.39	11.71 11.67	11
	350°	12.74	11.38	11.83	11.65	11.37	11.79	11.42	11.85	12.29	12.34	11.35	11.66	- 11
	340° 330°	12.76 12.70	11.33 11.39 11.37	11.82 11.85 11.82	11.58 11.57 11.59	11.35 11.33	11.76 11.76 11.81	11.45 11.40	11.89 11.81 11.82	12.37 12.31 12.31	12.33 12.32 12.31	11.32 11.38	11.64 11.62	11 11 11
	320° 310°	12.70 12.74 12.69	11.37 11.34	11.82 11.87	11.59 11.63	11.35 11.38	11.81 11.85	11.43 11.37	11.82 11.79	12.31 12.39	12.31 12.34	11.38 11.31 11.30	11.72 11.65	11
	300°	12.73	11.29	11.79	11.56	11.38	11.80	11.41	11.79	12.38	12.38	11.36	11.66	11
Tablet	290° 280°	12.67 12.68	11.37 11.37	11.86 11.85	11.65 11.60	11.36 11.29	11.79 11.79	11.38 11.47	11.83 11.82	12.29 12.38	12.32 12.34	11.29 11.39	11.70 11.66	11
Tables	270° 260°	12.69 12.68	11.29 11.36	11.80 11.84	11.60 11.55	11.29 11.38	11.79 11.83	11.45 11.37	11.85 11.86	12:39 12:35	12.34 12.39	11.33 11.36	11.66 11.65	11
	250°	12.73	11.38	11.83	11.60	11.38	11.79	11.43	11.80	12.31	12.35	11.39	11.63	- 11
	240° 230°	12.75 12.66	11.35 11.33	11.79 11.88	11.62 11.65	11.39 11.32	11.76 11.76	11.38 11.39	11.84 11.79	12.34 12.31	12.37 12.41	11.39 11.38	11.64 11.65	11
	220° 210°	12.68	11.36 11.39	11.86 11.83	11.58 11.59	11.35 11.37	11.76 11.85	11.46 11.39	11.86 11.85	12.38 12.31	12.33 12.33	11.39 11.33	11.70 11.65	11
	200°	12.68	11.39	11.79	11.63	11.33	11.79	11.40	11.83	12.36	12.41	11.38	11.68	- 11
Laptop	190° 195°	18.77 18.85	18.25 18.26	16.39 16.46	12.97 13.04	18.36 18.32	16.72 16.70	13.36 13.36	17.16 17.08	16.59 16.56	13.67 13.73	19.26 19.25	16.64 16.55	15 15
Tablet	200° 199°	12.66 18.84	11.29 18.16	11.81 16.37	11.61 12.99	11.31 18.38	11.85 16.76	11.38 13.36	11.84 17.12	12.29 16.62	12.34 13.73	11.30 19.22	11.70 16.64	11 15
	198°	18.87	18.18	16.46	13.03	18.40 18.31	16.77	13.36				19.21 19.28	16.55 16.58	15
	197° 196°	18.86 18.79	18.20 18.20	16.45 16.40	13.06 13.01	18.34	16.76 16.73	13.31 13.32	17.10 17.12	16.59 16.57	13.71 13.77	19.19	16.60	15 15
	195° 194°	18.81 18.87	18.19 18.18	16.39 16.45	13.03 13.04	18.33 18.32	16.75 16.79	13.30 13.28	17.16 17.08	16.60 16.62	13.77	19.27 19.22	16.58 16.58	15 15
	193°	18.80	18.20	16.46	13.03	18.36	16.72	13.31	17.14	16.65	13.77	19.18	16.55	15
	192° 191°	18.82 18.78	18.18 18.18	16.41 16.42	13.05 12.99	18.41 18.38	16.76 16.78	13.28 13.36	17.15 17.06	16.64 16.61	13.76 13.71	19.24 19.23	16.54 16.60	15
1	190° 180°	18.87 18.79	18.24 18.25	16.37 16.39	13.07 12.98	18.31 18.36	16.79 16.78	13.28 13.35	17.06 17.12	16.60 16.62	13.71	19.20 19.18	16.64 16.64	15 15
	170°	18.84	18.25	16.42	13.03	18.38	16.74	13.33	17.09	16.60	13.71	19.27	16.59	15
Laptop	160° 150°	18.79 18.79	18.25 18.19	16.45 16.41	12.97 13.02	18.39 18.38	16.76 16.75	13.32 13.30	17.12 17.12	16.66 16.56	13.68 13.74	19.24 19.19	16.60 16.62	15 15
	140°	18.87	18.16 18.20	16.37 16.38	13.04	18.38	16.80 16.79	13.27	17.14	16.61 16.66	13.71 13.69	19.28	16.61 16.55	15 15
	130°	18.82	18.22	16.38	13.07	18.32	16.74	13.34	17.12	16.62	13.73	19.25	16.62	15
1	110° 100°	18.79 18.83	18.21 18.19	16.43 16.40	13.05 13.07	18.33 18.36	16.75 16.73	13.28 13.30	17.09 17.07	16.57 16.65	13.75 13.68	19.19 19.21	16.59 16.60	15 15
	90°	18.77	18.18	16.40	12.98	18.35	16.79	13.37	17.09	16.59	13.67	19.18	16.61	15
	80° 70°	18.85 18.78	18.18 18.18	16.36 16.38	12.99 12.98	18.39 18.38	16.77 16.76	13.29 13.29	17.07 17.07	16.59 16.65	13.72 13.67	19.18 19.28	16.60 16.54	15 15
	60° 50°	18.82 18.81	18.20 18.24	16.39 16.41	13.02 13.04	18.37 18.39	16.72 16.74	13.30 13.27	17.10 17.13	16.63 16.57	13.72 13.73	19.22 19.21	16.63 16.62	15 15
	40°	18.81	18.16	16.38	13.07	18.33	16.74	13.30	17.09	16.65	13.69	19.21	16.59	15
	30° 20°	18.84	18.23	16.40 0.00	12.98	18.40	16.79	13.29	17.14 0.00	16.58	13.72	19.28 0.00	16.64	15
Lid close	25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 17.15	0.00	0.00	0.00	0.00	0.
Laptop	30° 29°	18.82 0.00	18.25 0.00	16.46 0.00	13.07	18.31 0.00	16.71 0.00	13.28	17.15 0.00	16.58 0.00	13.67	19.22 0.00	16.62 0.00	15
	28°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.
	27° 26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.
	25° 24°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.
Lid close	23°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	22° 21°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	20° 10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0

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1.7 The SAR Measurement System

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

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

- 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).
- 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.

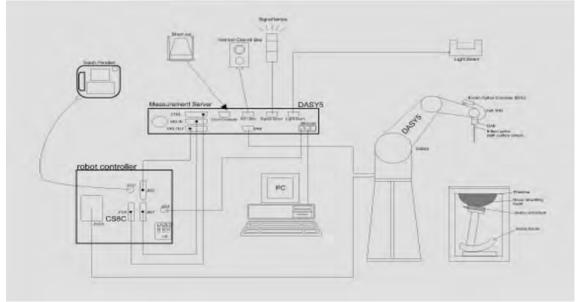


Fig. a The block diagram of SAR system

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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.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- 10. Tissue simulating liquid mixed according to the given recipes.
- 11. 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 2450/5250/5600/5750 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 at ± 0.5 dB in tissue material (rotation norm	,
Dynamic	10 μW/g to > 100 mW/g	, , , , , , , , , , , , , , , , , , ,
Range	Linearity: ± 0.2 dB (noise: typically < 1 μ\	N/g)
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements (e.g., very strong gradient fields). On compliance testing for frequencies up to better 30%.	ly probe which enables

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PHANTOM

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

DEVICE HOLDER

DEVICE HOLD		
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.	

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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 2450/5250/5600/5750 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was above 15 cm 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.

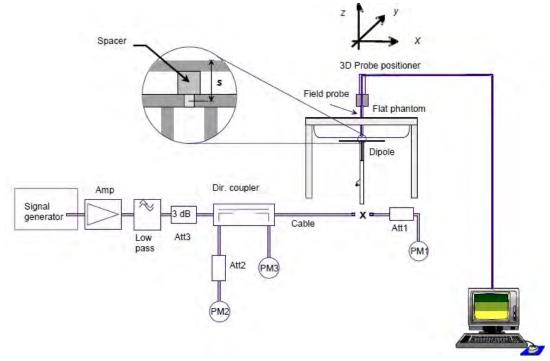


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D2450V2	727	2450 Head		53.9	13.57	54.28	0.71%	Mar. 21, 2022
		Frequency (MHz)						
Validation Kit	S/N		•	1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
	S/N		•	SAR-1g	Measured SAR-1g	SAR-1g normalized to	(%)	_
	S/N 1023	(M	Hz)	SAR-1g (mW/g)	Measured SAR-1g (mW/g)	SAR-1g normalized to 1W (mW/g)	(%)	Date

Table 1. Results of system validation

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1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

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.

The depth of the tissue simulant in the flat section of the phantom was \geq 15 cm \pm 5

mm during all tests. (Fig. 2)

Tissue Type Measurement Date Measured Date Target Dielectric Constant, εr Conductivity, σ (S/m) Conductivit	mm during all tests.		(FIg. Z)						
Mar, 21. 2022 2437 39.223 1.788 40.372 1.848 2.93% 3.32% 2441 39.216 1.792 40.365 1.851 2.93% 3.32% 2450 39.200 1.800 40.349 1.859 2.93% 3.30% 2462 39.185 1.813 40.334 1.870 2.93% 3.15% 5190 35.997 4.645 37.146 4.785 3.19% 3.01% 5210 35.991 4.665 37.123 4.806 3.19% 3.01% 5220 35.963 4.676 37.112 4.816 3.20% 3.01% 5240 35.940 4.696 37.089 4.837 3.20% 3.01% 5240 35.991 4.686 37.078 4.848 3.20% 3.01% 5240 35.940 4.696 37.078 4.848 3.20% 3.01% 5270 35.806 4.727 37.055 4.869 3.20% 3.01% 5			Frequency	Constant,	Conductivity,	Dielectric Constant,	Conductivity,	% dev εr	% dev σ
Mar, 21. 2022 2441 39.216 1.792 40.365 1.851 2.93% 3.32% 2450 39.200 1.800 40.349 1.859 2.93% 3.30% 2462 39.185 1.813 40.334 1.870 2.93% 3.15% 5190 35.997 4.645 37.146 4.785 3.19% 3.01% 5210 35.974 4.665 37.123 4.806 3.19% 3.01% 5220 35.963 4.676 37.112 4.816 3.20% 3.01% 5230 35.951 4.686 37.100 4.827 3.20% 3.01% 5240 35.940 4.696 37.089 4.837 3.20% 3.01% 5270 35.906 4.727 37.055 4.869 3.20% 3.01% 5280 35.894 4.737 37.043 4.879 3.20% 3.01% 5290 35.883 4.747 37.032 4.80 3.20% 3.01% 53			2412	39.268	1.766	40.417	1.826	2.93%	3.38%
Head 2450 39.200 1.800 40.349 1.859 2.93% 3.30% 2462 39.185 1.813 40.334 1.870 2.93% 3.15% 5190 35.997 4.645 37.146 4.785 3.19% 3.01% 5210 35.974 4.665 37.123 4.806 3.19% 3.01% 5220 35.963 4.676 37.112 4.816 3.20% 3.01% 5230 35.951 4.686 37.100 4.827 3.20% 3.01% 5240 35.940 4.696 37.089 4.837 3.20% 3.01% 5240 35.940 4.696 37.089 4.837 3.20% 3.01% 5270 35.906 4.727 37.055 4.869 3.20% 3.01% 5280 35.894 4.737 37.043 4.879 3.20% 3.01% 5280 35.894 4.737 37.043 4.879 3.20% 3.01% 5300 35.871 4.758 37.020 4.901 3.20% 3.01% 5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.529 5.065 36.678 5.217 3.23% 3.00% 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5755 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.			2437	39.223	1.788	40.372	1.848	2.93%	3.32%
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Head 5190 35.997			2450	39.200	1.800	40.349	1.859	2.93%	3.30%
Head Mar, 22. 2022 S210 35.974 4.665 37.123 4.806 3.19% 3.01% 5220 35.963 4.676 37.112 4.816 3.20% 3.01% 5230 35.951 4.686 37.100 4.827 3.20% 3.01% 5240 35.940 4.696 37.089 4.837 3.20% 3.01% 5270 35.906 4.727 37.055 4.869 3.20% 3.01% 5280 35.894 4.737 37.043 4.879 3.20% 3.01% 5290 35.883 4.747 37.032 4.890 3.20% 3.01% 5300 35.871 4.758 37.020 4.901 3.20% 3.01% 5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5530 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.699 4.993 36.758 5.144 3.23% 3.01% 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			2462	39.185	1.813	40.334	1.870	2.93%	3.15%
Head Mar, 22. 2022 S250 35.963 4.676 37.112 4.816 3.20% 3.01% 5240 35.940 4.696 37.089 4.837 3.20% 3.01% 5270 35.906 4.727 37.055 4.869 3.20% 3.01% 5280 35.894 4.737 37.043 4.879 3.20% 3.01% 5290 35.883 4.747 37.032 4.890 3.20% 3.01% 5300 35.871 4.758 37.020 4.901 3.20% 3.01% 5310 35.860 4.768 37.099 4.911 3.20% 3.01% 5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.699 4.993 36.758 5.144 3.23% 3.01% 5500 35.529 5.065 36.678 5.217 3.23% 3.00% 5600 35.529 5.065 36.666 5.227 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5			5190	35.997	4.645	37.146	4.785	3.19%	3.01%
Head Mar, 22. 2022 5250 35.940 4.686 37.100 4.827 3.20% 3.01% 5240 35.940 4.696 37.089 4.837 3.20% 3.01% 3.01% 5250 35.929 4.706 37.078 4.848 3.20% 3.01% 5270 35.806 4.727 37.055 4.869 3.20% 3.01% 5280 35.883 4.747 37.032 4.890 3.20% 3.01% 5300 35.871 4.758 37.020 4.901 3.20% 3.01% 5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5210	35.974	4.665	37.123	4.806	3.19%	3.01%
Head 5240 35.940 4.696 37.089 4.837 3.20% 3.01% Head 5250 35.929 4.706 37.078 4.848 3.20% 3.01% 5270 35.906 4.727 37.055 4.869 3.20% 3.01% 5280 35.894 4.737 37.043 4.879 3.20% 3.01% 5290 35.883 4.747 37.032 4.890 3.20% 3.01% 5300 35.871 4.758 37.020 4.901 3.20% 3.01% 5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.609 4.993 36.758 5.144 3.23% 3.01% 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.449 5.137 36.598 5.290 3.24% 2.99%			5220	35.963	4.676	37.112	4.816	3.20%	3.01%
Head Mar, 22. 2022 5250 35.929 4.706 37.078 4.848 3.20% 3.01% 5270 35.906 4.727 37.055 4.869 3.20% 3.01% 5280 35.894 4.737 37.043 4.879 3.20% 3.01% 5290 35.883 4.747 37.032 4.890 3.20% 3.01% 5300 35.871 4.758 37.020 4.901 3.20% 3.01% 5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.609 4.993 36.758 5.144 3.23% 3.01% 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99%			5230	35.951	4.686	37.100	4.827	3.20%	3.01%
Head Section Section			5240	35.940	4.696	37.089	4.837	3.20%	3.01%
Head Second S		Mar, 22. 2022	5250	35.929	4.706	37.078	4.848	3.20%	3.01%
Head 5290 35.883 4.747 37.032 4.890 3.20% 3.01% 5300 35.871 4.758 37.020 4.901 3.20% 3.01% 5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.609 4.993 36.758 5.144 3.23% 3.01% 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5690 35.414 5.168 36.563 5.322 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5270	35.906	4.727	37.055	4.869	3.20%	3.01%
Head 5300 35.871 4.758 37.020 4.901 3.20% 3.01% 5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.609 4.993 36.758 5.144 3.23% 3.01% 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795			5280	35.894	4.737	37.043	4.879	3.20%	3.01%
5310 35.860 4.768 37.009 4.911 3.20% 3.01% 5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.609 4.993 36.758 5.144 3.23% 3.01% 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5745 35.363 5.214 36.563 5.322 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5290	35.883	4.747	37.032	4.890	3.20%	3.01%
5510 35.631 4.973 36.780 5.123 3.22% 3.02% 5530 35.609 4.993 36.758 5.144 3.23% 3.01% 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5700 35.414 5.168 36.563 5.322 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%	Head		5300	35.871	4.758	37.020	4.901	3.20%	3.01%
Mar, 23. 2022 Mar, 23. 2022 Mar, 23. 2022 Mar, 23. 2022 Solution Sol			5310	35.860	4.768	37.009	4.911	3.20%	3.01%
Mar, 23. 2022 5600 35.529 5.065 36.678 5.217 3.23% 3.00% 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5700 35.414 5.168 36.563 5.322 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5510	35.631	4.973	36.780	5.123	3.22%	3.02%
Mar, 23. 2022 5610 35.517 5.075 36.666 5.227 3.23% 3.00% 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5700 35.414 5.168 36.563 5.322 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 2.98% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5530	35.609	4.993	36.758	5.144	3.23%	3.01%
Mar, 23. 2022 5670 35.449 5.137 36.598 5.290 3.24% 2.99% 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5700 35.414 5.168 36.563 5.322 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5600	35.529	5.065	36.678	5.217	3.23%	3.00%
Mar, 23. 2022 5690 35.426 5.157 36.575 5.311 3.24% 2.99% 5700 35.414 5.168 36.563 5.322 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5610	35.517	5.075	36.666	5.227	3.23%	3.00%
Mar, 23. 2022 5700 35.414 5.168 36.563 5.322 3.24% 2.99% 5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5670	35.449	5.137	36.598	5.290	3.24%	2.99%
5745 35.363 5.214 36.512 5.369 3.25% 2.98% 5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5690	35.426	5.157	36.575	5.311	3.24%	2.99%
5750 35.357 5.218 36.506 5.374 3.25% 3.00% 5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%		Mar, 23. 2022	5700	35.414	5.168	36.563	5.322	3.24%	2.99%
5755 35.351 5.224 36.500 5.380 3.25% 2.98% 5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5745	35.363	5.214	36.512	5.369	3.25%	2.98%
5775 35.329 5.244 36.478 5.401 3.25% 2.98% 5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5750	35.357	5.218	36.506	5.374	3.25%	
5795 35.306 5.265 36.455 5.422 3.25% 2.98%			5755	35.351	5.224	36.500	5.380	3.25%	2.98%
			5775	35.329	5.244	36.478	5.401	3.25%	2.98%
5825 35.271 5.296 36.420 5.453 3.26% 2.98%			5795	35.306		36.455		3.25%	
			5825	35.271	5.296	36.420	5.453	3.26%	2.98%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid is:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

<u> </u>		,	
Broad-band head tissue simulating	SPEAG Product	Frequency range (MHz)	Main Ingredients
liquids	HBBL600-10000V6	600 - 10000	Water, Oil

Table 3. Recipes for tissue simulating liquid

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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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.

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

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interpolation to get all points within the measured volume. In the last step, a 1q cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

1.12 Probe Calibration Procedures

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

1.12.1 Transfer Calibration with Temperature Probes

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

$$SAR = C \frac{\delta T}{\delta t}$$
,

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 (~ 2% for c; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed ±5%.
- Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about $\pm 10\%$ (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 ± 7 -9% (RSS) when not, which is in good agreement with the estimates given in [2].

1.12.2 Calibration with Analytical Fields

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

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

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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.
- 2. K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, \Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954{1962, Oct. 1996.
- 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.

- Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
- Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
- Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not

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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

2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.2 Summary of Results

Notebook mode

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Δ	nt Mai	n						

Ant Main											
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
Mode	Position	(mm)	CH	(MHz)	Tolerance (dBm)		scaling	scaling	Measured	The state of the s	
	Bottom Surface	0	1	2412	19.54	19.33	1.01	104.95%	0.054	0.057	-
WLAN 802.11b	Bottom Surface	0	6	2437	19.73	19.39	1.01	108.14%	0.060	0.065	-
	Bottom Surface	0	11	2462	19.52	19.47	1.01	101.16%	0.069	0.071	64
WLAN 802.11a 5.2G	Bottom Surface	0	44	5220	18.91	18.74	1.02	103.99%	0.704	0.749	65
WLAN 802.11a 5.3G	Bottom Surface	0	56	5280	18.94	18.54	1.02	109.65%	0.739	0.829	66
WLAN 802.11a 5.6G	Bottom Surface	0	120	5600	19.16	18.92	1.02	105.68%	0.550	0.595	67
WLAN 802.11a	Bottom Surface	0	149	5745	19.93	19.45	1.02	111.69%	0.455	0.520	-
5.8G	Bottom Surface	0	157	5785	19.88	19.58	1.02	107.15%	0.590	0.647	-
5.6G	Bottom Surface	0	165	5825	20.06	19.95	1.02	102.57%	0.835	0.876	68

Ant Aux												
Mode	Position	Distance	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page	
		(mm)							Measured	Reported	Flot page	
WLAN 802.11b	Bottom Surface	0	6	2437	19.24	18.87	1.01	108.89%	0.059	0.065	69	
Bluetooth	Bottom Surface	0	0	2402	11.41	11.13	1.30	106.63%	0.006	0.008	-	
(GFSK)	Bottom Surface	0	39	2441	11.31	11.30	1.30	100.23%	0.008	0.010	70	
(GFSK)	Bottom Surface	0	78	2480	11.44	11.25	1.30	104.44%	0.007	0.009	-	
WLAN 802.11a 5.2G	Bottom Surface	0	48	5240	18.72	18.26	1.02	111.17%	0.152	0.173	71	
WLAN 802.11a 5.3G	Bottom Surface	0	56	5280	18.79	18.41	1.02	109.14%	0.192	0.214	72	
WLAN 802.11a 5.6G	Bottom Surface	0	120	5600	18.78	18.03	1.02	118.85%	0.049	0.060	73	
WLAN 802.11a 5.8G	Bottom Surface	0	165	5825	19.74	19.29	1.02	110.92%	0.060	0.068	74	

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Tablet mode

Averaged SAR over 1g (W/kg) Measured Avg. Power (dBm) Max. Rated Avg Duty cycle scaling Distance Freq. (MHz) Power scaling Mode Position СН Power + Max. Tolerance (dBm Plot page Measured Back Surface
Back Surface
Back Surface
Back Surface
Back Surface
Back Surface
Top Edge
Bottom Edge
Left Edge
Bottom Edge
Left Edge
Back Surface
Top Edge 100.93 0.974 243 $\begin{array}{c} 104\ 2394 \\ 105\ 4894 \\ 100\ 3374 \\ 100\ 3374 \\ 100\ 3374 \\ 100\ 3374 \\ 100\ 3374 \\ 100\ 3374 \\ 100\ 3374 \\ 100\ 3374 \\ 100\ 3374 \\ 100\ 3374 \\ 101\ 3574 \\$ 75 1.1100 1. 246 WLAN 802.11b 76 WLAN 802.11n (40M) 5.2G 5190 5210 5210 5210 5210 5210 5210 5210 5270 5270 5270 5270 5270 5290 5290 5290 530 5530 5530 5530 5755 5755 5775 5775 5775 5775 5775 57795 57795 57795 57795 77 WLAN 802.11ac (80M) 5.2G 78 WLAN 802.11n (40M) 5.3G 79 WLAN 802.11ac (80M) 5.3G 80 WLAN 802.11ac (80M) 5.6G 81 WLAN 802.11n (40M) 5.8G 104.719 104.719 104.719 103.289 103.289 5795 5795 5775 5775 5775 5775 82 WLAN 802.11ac

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	D. W.	Distance	CH	Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR over 1g (W/kg)	over 1g (W/kg)	Dist
Mode	Position	(mm)	СН	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	Plot page
	Back Surface	0	11	2462	13.00	12.76	1.01	105.68%	0.676	0.718	83
	Top Edge	0	11	2462	13.00	12.76	1.01	105.68%	0.004	0.004	-
WLAN 802.11b	Bottom Edge	0	11	2462	13.00	12.76	1.01	105.68%	0.001	0.001	-
	Left Edge	0	11	2462	13.00	12.76	1.01	105.68%	0.033		-
	Right Edge	0	11	2462	13.00	12.76	1.01	105.68%	0.001	Reported 0.718 0.074 0.074 0.004 0.004 0.005 0.007 0.007 0.417 0.414 0.001 0.007	
	Back Surface	0	0	2402	11.41	11.13	1.30	106.63%	0.294		-
	Back Surface	0	39	2441	11.31	11.30	1.30	100.23%	0.321		84
Bluetooth	Back Surface	0	78	2480	11.44	11.25	1.30	104.44%	0.306		-
(GFSK)	Top Edge	0	78	2480	11.44	11.25	1.30	104.44%	0.001		
(- /	Bottom Edge	0	78	2480	11.44	11.25	1.30	104.44%	0.001		-
	Left Edge	0	78	2480	11.44	11.25	1.30	104.44%	0.019		-
	Right Edge	0	78	2480	11.44	11.25	1.30	104.44%	0.001		-
	Back Surface	0	38	5190	12.00	11.89	1.00	102.57%	0.894		-
WLAN 802.11n	Back Surface	0	46 38	5230 5190	12.00 12.00	11.54 11.89	1.00	111.17% 102.57%	0.927 0.006		85
(40M)	Top Edge	0	38	5190 5190	12.00	11.89 11.89	1.00	102.57%	0.006		-
5.2G	Bottom Edge	0	38	5190	12.00	11.89	1.00		0.001		- :
	Left Edge Right Edge	0	38	5190 5190	12.00 12.00	11.89 11.89	1.00	102.57% 102.57%	0.198		- :
		0	42	5210	12.00	11.65	1.00	102.57%	0.980		- 86
	Back Surface Back Surface*	0	42	5210	12.00	11.65	1.00	108.39%	0.966		- 00
WLAN 802.11ac	Top Edge	0	42	5210	12.00	11.65	1.00	108.39%	0.009		- :
(M08)	Bottom Edge	0	42	5210	12.00	11.65	1.00	108.39%	0.009		- :
5.2G	Left Edge	0	42	5210	12.00	11.65	1.00	108.39%	0.210		
	Right Edge	0	42	5210	12.00	11.65	1.00	108.39%	0.001		
	Back Surface	0	54	5270	12.00	11.76	1.00	105.68%	1.030		87
	Back Surface*	0	54	5270	12.00	11.76	1.00	105.68%	0.998		
WLAN 802.11n	Back Surface	0	62	5310	12.00	11.85	1.00	103.51%	0.933		-
(40M)	Top Edge	0	62	5310	12.00	11.85	1.00	103.51%	0.009		
5.3G	Bottom Edge	0	62	5310	12.00	11.85	1.00	103.51%	0.001		-
	Left Edge	0	62	5310	12.00	11.85	1.00	103.51%	0.021		-
	Right Edge	0	62	5310	12.00	11.85	1.00	103.51%	0.001		-
	Back Surface	0	58	5290	12.00	11.47	1.00	112.98%	0.947	1.074	88
WLAN 802.11ac	Top Edge	0	58	5290	12.00	11.47	1.00	112.98%	0.007	0.008	-
(M08)	Bottom Edge	0	58	5290	12.00	11.47	1.00	112.98%	0.001	0.001	-
5.3G	Left Edge	0	58	5290	12.00	11.47	1.00	112.98%	0.170	0.193	-
	Right Edge	0	58	5290	12.00	11.47	1.00	112.98%	0.001	0.001	-
	Back Surface	0	102	5510	12.50	12.39	1.00	102.57%	0.850		89
WLAN 802.11n	Back Surface	0	134	5670	12.50	12.06	1.00	110.66%	0.834		-
(40M)	Top Edge	0	102	5510	12.50	12.39	1.00	102.57%	0.025		-
5.6G	Bottom Edge	0	102	5510	12.50	12.39	1.00	102.57%	0.001		-
0.00	Left Edge	0	102	5510	12.50	12.39	1.00	102.57%	0.142		-
	Right Edge	0	102	5510	12.50	12.39	1.00	102.57%	0.001		-
	Back Surface	0	106	5530	12.50	12.41	1.00	102.09%	1.030		90
14// 41/ 000 44	Back Surface*	0	106	5530	12.50	12.41	1.00	102.09%	1.010		-
WLAN 802.11ac	Back Surface	0	122	5610	12.50	12.17	1.00	107.89%	0.920		-
(80M) 5.6G	Top Edge	0	106	5530	12.50	12.41	1.00	102.09%	0.036		-
5.66	Bottom Edge	0	106 106	5530 5530	12.50 12.50	12.41 12.41	1.00	102.09% 102.09%	0.001 0.142		-
	Left Edge	0	106	5530 5530	12.50 12.50	12.41	1.00	102.09%	0.142		
	Right Edge	0	106	5530 5755	12.50	12.41	1.00	102.09%	0.001		
	Back Surface Back Surface	0	151	5795	12.00	11.72	1.00	105.66%	0.832		91
WLAN 802.11n	Top Edge	0	151	5755	12.00	11.72	1.00	106.66%	0.919		91
(40M)	Bottom Edge	0	151	5755	12.00	11.72	1.00	106.66%	0.918		<u> </u>
5.8G	Left Edge	0	151	5755	12.00	11.72	1.00	106.66%	0.001		- :
	Right Edge	0	151	5755	12.00	11.72	1.00	106.66%	0.076		<u> </u>
	Back Surface	0	155	5775	12.00	11.72	1.00	113.76%	0.801		92
WLAN 802.11ac	Top Edge	0	155	5775	12.00	11.44	1.00	113.76%	0.025	0.029	92
(80M)	Bottom Edge	0	155	5775	12.00	11.44	1.00	113.76%	0.025	0.029	-
5.8G	Left Edge	0	155	5775	12.00	11.44	1.00	113.76%	0.001	0.001	- :
0.00	Right Edge	0	155	5775	12.00	11.44	1.00	113.76%	0.002	0.001	

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

Note:

Scaling = $\frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P2(mW)}{P1(mW)} = 10^{\left(\frac{P2-P1}{10}\right)(dBm)}$

Reported SAR = measured SAR * (scaling)

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

2.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非只有铅明,此数华红用摄影测验之样只有含,同既此样只属风风风干。大规华工概太八司隶而连可,太可如以推测。

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

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

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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:

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

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

3.2 SPLSR evaluation and analysis

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

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

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

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

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

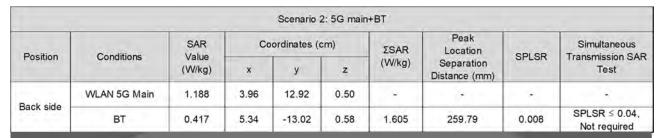
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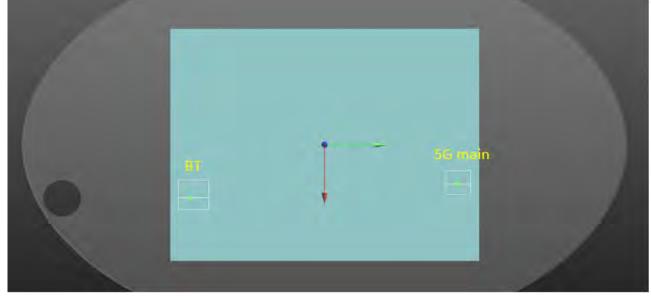
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				Reported SAR			Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	
		2	3	4	5	7	2+7	4+7	4+5+7	2+3	4+5	
Exposure Pos	sition	2.4GHzWLAN Ant Main	2.4GHz WLAN Ant Aux	5GHz WLAN Ant Main	5GHz WLAN Ant Aux	Bluetooth Ant Aux	Summed	Summed	Summed	Summed	Summed	SPLSR
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Bottom Surface	0	0.071	0.065	0.876	0.214	0.010	0.081	0.886	1.100	0.136	1.090	ΣSAR<1.6, Not required
Back Surface	0	1.163	0.718	1.188	1.093	0.417	1.580	1.605	2.698	1.881	2.281	Analyzed as below
Top Edge	0	0.009	0.004	0.023	0.983	0.001	0.010	0.024	1.007	0.013	1.006	ΣSAR<1.6, Not required
Bottom Edge	0	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.002	0.002	ΣSAR<1.6, Not required
Left Edge	0	0.001	0.035	0.001	0.229	0.026	0.027	0.027	0.256	0.036	0.230	ΣSAR<1.6, Not required
Right Edge	0	0.085	0.001	0.129	0.001	0.001	0.086	0.130	0.131	0.086	0.130	ΣSAR<1.6, Not required





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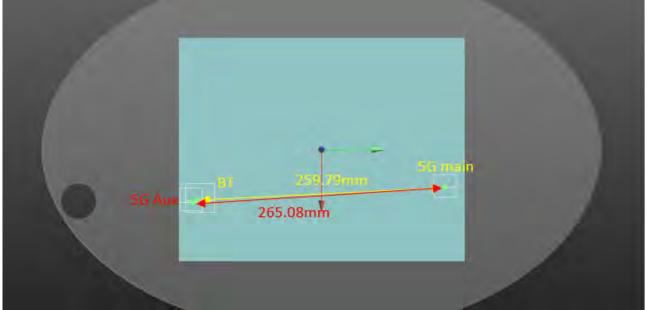
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	Scenario 3: 5G main+5G Aux+BT												
Position	Position Conditions		Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR				
Position	Conditions	Value (W/kg)	х	у	z	(W/kg)	Separation Distance (mm)	OFLOR	Test				
Back side	WLAN 5G Main	1.188	3.96	12.92	0.50	-	-	-	-				
Dack side	WLAN 5G Aux + BT	1.510	5.34	-13.02	0.58	2.698	259.79	0.017	SPLSR ≤ 0.04, Not required				



*For peak SAR location of WLAN Aux + BT, using the peak SAR location with smallest separation distance between WLAN Main - WLAN Aux pair and WLAN Main - BT pair to be the worst case condition.

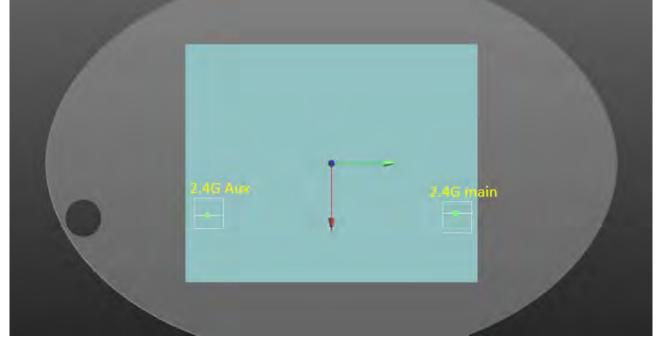
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			Sc	enario 4: 2.	4G main+2	.4G Aux			
Position	Conditions	SAR Value	Coordinates (cm)		ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR	
	Conditions	(W/kg)	×	У	z	(W/kg)	Separation Distance (mm)	OFLOR	Test
21-21-25	WLAN 2.4G Main	1.163	4.91	12.72	0.54	12	32 100		-0
Back side	WLAN 2.4G Aux	0.718	5.12	-12.80	-0.54	1.881	255.44	0.010	SPLSR ≤ 0.04, Not required



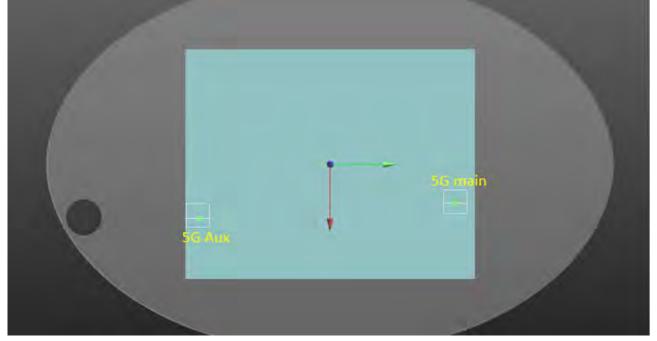
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				Scenario 5:	5G main+	G Aux			
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR
	Conditions		×	У	z	(W/kg)	Separation Distance (mm)	SPLOR	Test
20000	WLAN 5G Main	1.188	3.96	12.92	0.50	H 4	3-10-1	4	-
Back side	WLAN 5G Aux	1.093	5.53	-13.54	0.57	2.281	265.08	0.013	SPLSR ≤ 0.04, Not required



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4. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	3938	Jan.25,2022	Jan.24,2023
SPEAG	System Validation	D2450V2	727	Apr.14,2021	Apr.13,2022
SFEAG	Dipole	D5GHzV2	1023	Jan.27,2022	Jan.26,2023
SPEAG	Data acquisition Electronics	DAE4	1305	Apr.09,2021	Apr.08,2022
SPEAG	Software	DASY52 4.7.80	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.28,2022	Feb.27,2023
Agilent	Dual-directional	772D	MY46151242	Aug.16,2021	Aug.15,2022
7 ignorit	coupler	778D	MY48220468	Aug.16,2021	Aug.15,2022
Agilent	Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
Anritsu	Power Meter	ML2496A	1337004	Oct.08,2021	Oct.07,2022
Anritsu	Dower Concer	MA2411B	1306052	Oct.08,2021	Oct.07,2022
R&S	Power Sensor	NRP18S	101974	Oct.12,2021	Oct.11,2022
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.26,2021	Apr.25,2022

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5. Measurements

Date: 2022/3/21

Report No.: E5/2022/10003

WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Main

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium parameters used: f = 2462 MHz; $\sigma = 1.87 \text{ S/m}$; $\varepsilon_r = 40.334$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0832 W/kg

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

Reference Value = 0.124 V/m; Power Drift = 0.01 dB

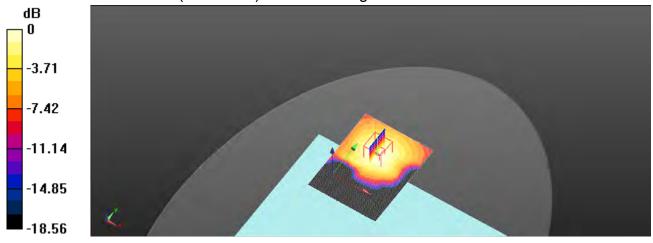
Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.039 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 0.0843 W/kg



0 dB = 0.0843 W/kg = -10.74 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11a 5.2G_Body_Bottom Surface_CH 44_0mm_Main

Communication System: WLAN; Frequency: 5220 MHz; Duty Cycle: 1:1.023

Medium parameters used: f = 5220 MHz; $\sigma = 4.816 \text{ S/m}$; $\varepsilon_r = 37.112$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (101x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.76 W/kg

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

Reference Value = 1.03 V/m; Power Drift = 0.05 dB

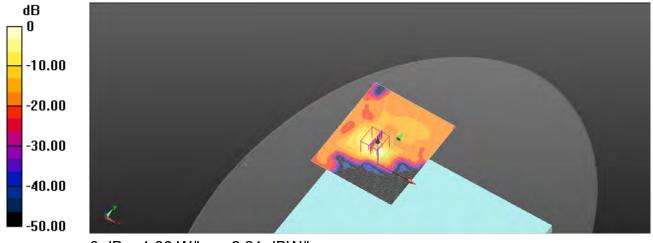
Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.171 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

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



0 dB = 1.66 W/kg = 2.21 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11a 5.3G_Body_Bottom Surface_CH 56_0mm_Main

Communication System: WLAN; Frequency: 5280 MHz; Duty Cycle: 1:1.023

Medium parameters used: f = 5280 MHz; $\sigma = 4.879 \text{ S/m}$; $\epsilon_r = 37.043$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (101x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.79 W/kg

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

Reference Value = 0.421 V/m; Power Drift = 0.03 dB

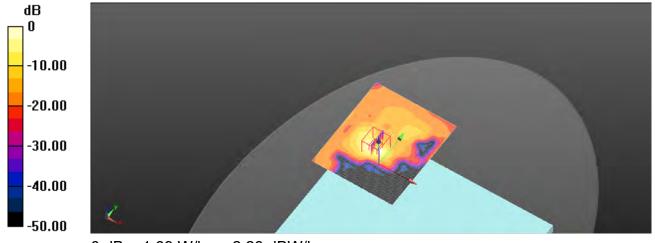
Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 0.739 W/kg; SAR(10 g) = 0.178 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 1.69 W/kg



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

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Date: 2022/3/23

Report No.: E5/2022/10003

WLAN 802.11a 5.6G_Body_Bottom Surface_CH 120_0mm_Main

Communication System: WLAN; Frequency: 5600 MHz; Duty Cycle: 1:1.023

Medium parameters used: f = 5600 MHz; $\sigma = 5.217 \text{ S/m}$; $\varepsilon_r = 36.678$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (101x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

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

Reference Value = 1.34 V/m; Power Drift = -0.02 dB

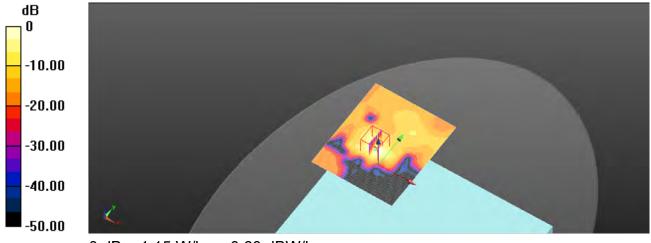
Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.142 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.60 dBW/kg

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Date: 2022/3/23

Report No.: E5/2022/10003

WLAN 802.11a 5.8G_Body_Bottom Surface_CH 165_0mm_Main

Communication System: WLAN; Frequency: 5825 MHz; Duty Cycle: 1:1.023

Medium parameters used: f = 5825 MHz; $\sigma = 5.453 \text{ S/m}$; $\varepsilon_r = 36.42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (101x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 2.31 V/m; Power Drift = -0.04 dB

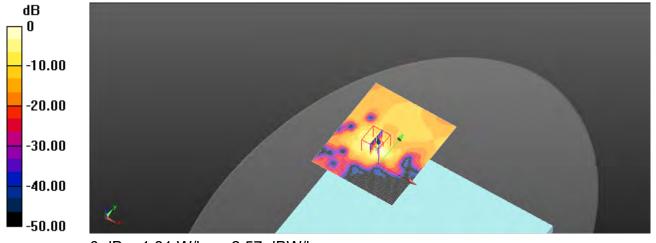
Peak SAR (extrapolated) = 4.11 W/kg

SAR(1 g) = 0.835 W/kg; SAR(10 g) = 0.221 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 1.81 W/kg



0 dB = 1.81 W/kg = 2.57 dBW/kg

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Date: 2022/3/21

Report No.: E5/2022/10003

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Aux

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.005

Medium parameters used: f = 2437 MHz; $\sigma = 1.848 \text{ S/m}$; $\varepsilon_r = 40.372$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 0.841 V/m; Power Drift = -0.02 dB

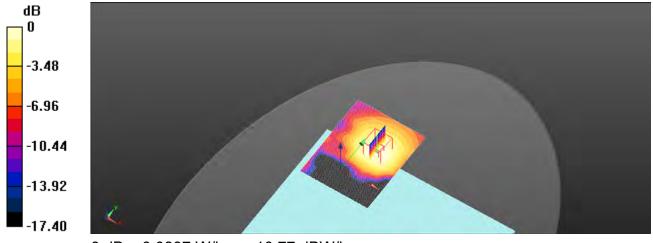
Peak SAR (extrapolated) = 0.112 W/kg

SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.033 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.0837 W/kg



0 dB = 0.0837 W/kg = -10.77 dBW/kg

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Date: 2022/3/21

Report No.: E5/2022/10003

Bluetooth(GFSK) Body Bottom Surface CH 39 0mm Aux

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.295 Medium parameters used: f = 2441 MHz; $\sigma = 1.851$ S/m; $\varepsilon_r = 40.365$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0119 W/kg

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

Reference Value = 0.431 V/m; Power Drift = 0.05 dB

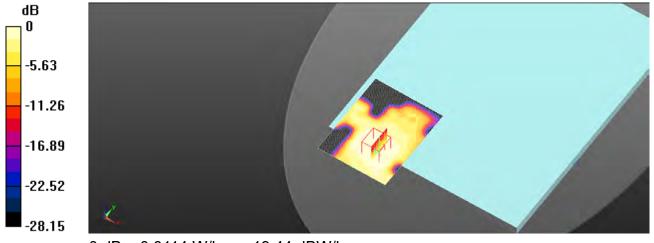
Peak SAR (extrapolated) = 0.0150 W/kg

SAR(1 g) = 0.00827 W/kg; SAR(10 g) = 0.00482 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.0114 W/kg



0 dB = 0.0114 W/kg = -19.44 dBW/kg

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Report No.: E5/2022/10003

WLAN 802.11a 5.2G_Body_Bottom Surface_CH 48_0mm_Aux

Communication System: WLAN; Frequency: 5240 MHz; Duty Cycle: 1:1.023

Medium parameters used: f = 5240 MHz; $\sigma = 4.837 \text{ S/m}$; $\varepsilon_r = 37.089$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

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

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.254 W/kg

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

Reference Value = 1.63 V/m; Power Drift = 0.03 dB

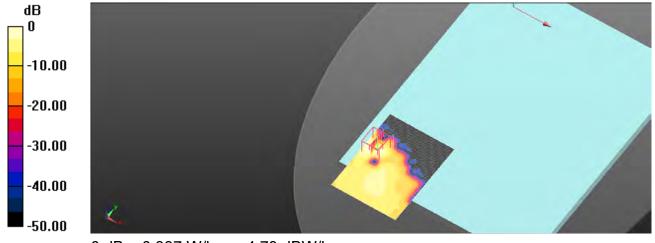
Peak SAR (extrapolated) = 0.724 W/kg

SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.032 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 0.337 W/kg



0 dB = 0.337 W/kg = -4.73 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11a 5.3G_Body_Bottom Surface_CH 56_0mm_Aux

Communication System: WLAN; Frequency: 5280 MHz; Duty Cycle: 1:1.023

Medium parameters used: f = 5280 MHz; $\sigma = 4.879 \text{ S/m}$; $\epsilon_r = 37.043$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

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

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.428 W/kg

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

Reference Value = 1.743 V/m; Power Drift = 0.01 dB

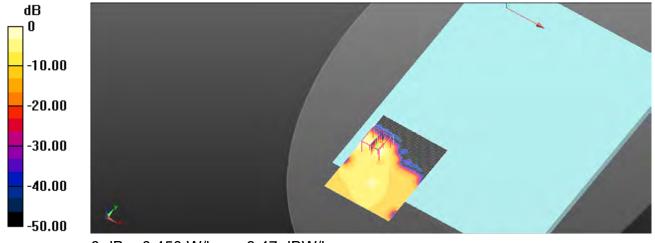
Peak SAR (extrapolated) = 0.870 W/kg

SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.043 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 0.450 W/kg



0 dB = 0.450 W/kg = -3.47 dBW/kg

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Report No.: E5/2022/10003

WLAN 802.11a 5.6G_Body_Bottom Surface_CH 120_0mm_Aux

Communication System: WLAN; Frequency: 5600 MHz; Duty Cycle: 1:1.023

Medium parameters used: f = 5600 MHz; σ = 5.217 S/m; ϵ_r = 36.678; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.107 W/kg

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

Reference Value = 2.041 V/m; Power Drift = -0.02 dB

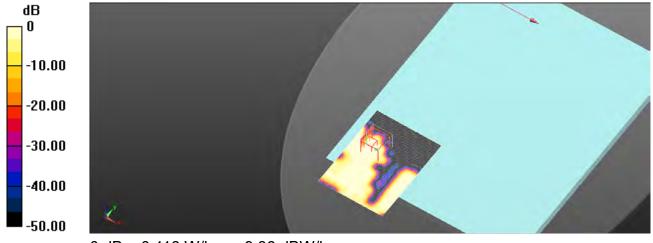
Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.014 W/kg

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 0.116 W/kg



0 dB = 0.116 W/kg = -9.36 dBW/kg

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Report No.: E5/2022/10003

WLAN 802.11a 5.8G_Body_Bottom Surface_CH 165_0mm_Aux

Communication System: WLAN; Frequency: 5825 MHz; Duty Cycle: 1:1.023

Medium parameters used: f = 5825 MHz; σ = 5.453 S/m; ε_r = 36.42; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

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

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.186 W/kg

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

Reference Value = 0.431 V/m; Power Drift = -0.01 dB

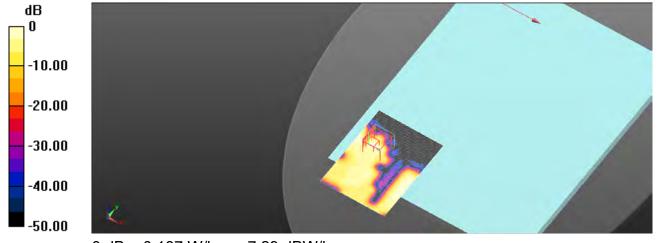
Peak SAR (extrapolated) = 0.672 W/kg

SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.014 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.187 W/kg



0 dB = 0.187 W/kg = -7.29 dBW/kg

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Date: 2022/3/21

Report No.: E5/2022/10003

WLAN 802.11b_Body_Back Surface_CH 6_0mm_Main

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.005

Medium parameters used: f = 2437 MHz; $\sigma = 1.848 \text{ S/m}$; $\varepsilon_r = 40.372$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.69 W/kg

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

Reference Value = 10.51 V/m; Power Drift = 0.05 dB

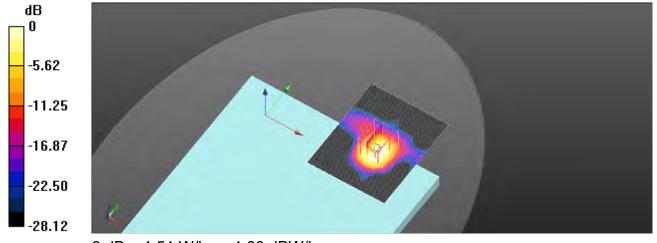
Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.526 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.80 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11n(40M) 5.2G Body Back Surface CH 46 0mm Main

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5230 MHz; $\sigma = 4.827 \text{ S/m}$; $\varepsilon_r = 37.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.89 W/kg

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

Reference Value = 11.73 V/m; Power Drift = 0.04 dB

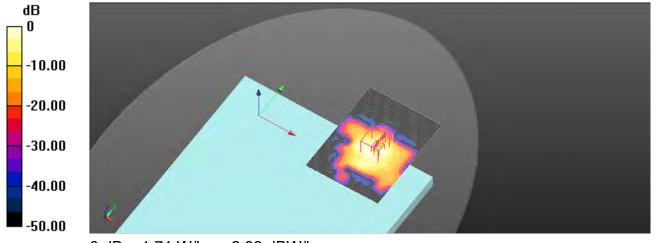
Peak SAR (extrapolated) = 3.31 W/kg

SAR(1 g) = 0.932 W/kg; SAR(10 g) = 0.306 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 57.5%

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



0 dB = 1.71 W/kg = 2.33 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11ac(80M) 5.2G_Body_Back Surface_CH 42_0mm_Main

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5210 MHz; $\sigma = 4.806 \text{ S/m}$; $\varepsilon_r = 37.123$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

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

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.68 W/kg

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

Reference Value = 24.21 V/m; Power Drift = 0.03 dB

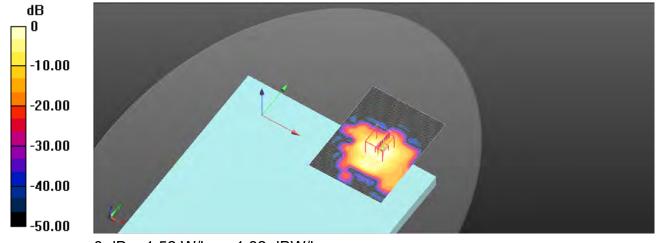
Peak SAR (extrapolated) = 2.90 W/kg

SAR(1 g) = 0.833 W/kg; SAR(10 g) = 0.274 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11n(40M) 5.3G_Body_Back Surface_CH 54_0mm_Main

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5270 MHz; σ = 4.869 S/m; ϵ_r = 37.055; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.91 W/kg

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

Reference Value = 8.85 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.323 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 1.87 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.85 V/m; Power Drift = 0.02 dB

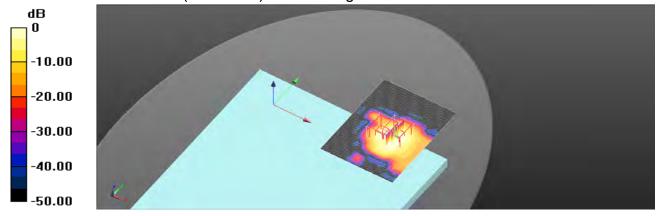
Peak SAR (extrapolated) = 3.01 W/kg

SAR(1 g) = 0.712 W/kg; SAR(10 g) = 0.233 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 59.2%

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



0 dB = 1.65 W/kg = 2.18 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_0mm_Main

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5290 MHz; σ = 4.89 S/m; ε_r = 37.032; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 4.621 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.307 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 1.69 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.621 V/m; Power Drift = 0.01 dB

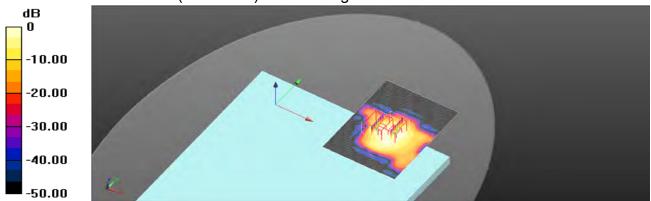
Peak SAR (extrapolated) = 2.73 W/kg

SAR(1 g) = 0.710 W/kg; SAR(10 g) = 0.193 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 59%

Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg = 1.53 dBW/kg

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Date: 2022/3/23

Report No.: E5/2022/10003

WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 138_0mm_Main

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5690 MHz; σ = 5.311 S/m; ϵ_r = 36.575; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

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

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.82 W/kg

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

Reference Value = 77.5 V/m; Power Drift = 0.04 dB

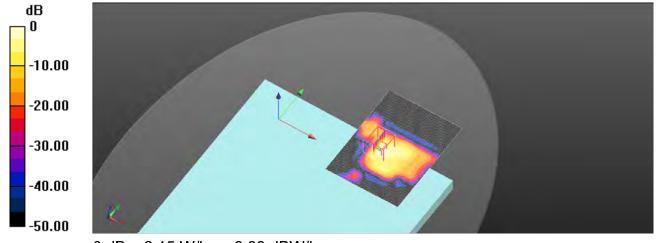
Peak SAR (extrapolated) = 4.35 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.244 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

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



0 dB = 2.15 W/kg = 3.33 dBW/kg

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Date: 2022/3/23

Report No.: E5/2022/10003

WLAN 802.11n(40M) 5.8G_Body_Back Surface_CH 159_0mm_Main

Communication System: WLAN; Frequency: 5795 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5795 MHz; σ = 5.422 S/m; ϵ_r = 36.455; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 3.02 W/kg

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

Reference Value = 73.21 V/m; Power Drift = 0.05 dB

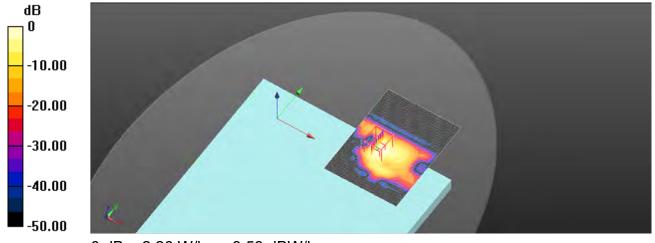
Peak SAR (extrapolated) = 4.76 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.286 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

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



0 dB = 2.26 W/kg = 3.53 dBW/kg

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Date: 2022/3/23

Report No.: E5/2022/10003

WLAN 802.11ac(80M) 5.8G Body Back Surface CH 155_0mm_Main

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5775 MHz; $\sigma = 5.401$ S/m; $\varepsilon_r = 36.478$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 3.03 W/kg

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

Reference Value = 34.12 V/m; Power Drift = -0.01 dB

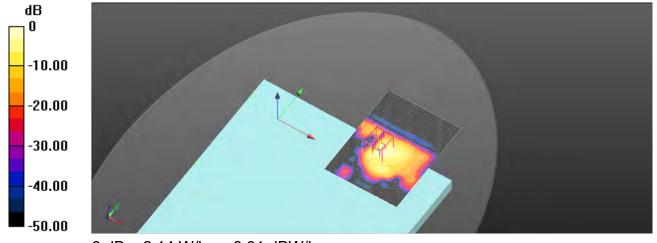
Peak SAR (extrapolated) = 4.31 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.256 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

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



0 dB = 2.14 W/kg = 3.31 dBW/kg

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Date: 2022/3/21

Report No.: E5/2022/10003

WLAN 802.11b Body Back Surface CH 11_0mm_Aux

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium parameters used: f = 2462 MHz; $\sigma = 1.87 \text{ S/m}$; $\epsilon_r = 40.334$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

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

Reference Value = 43.98 V/m; Power Drift = 0.01 dB

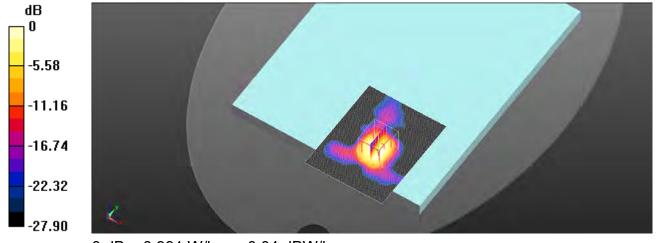
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.321 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 50.8%

Maximum value of SAR (measured) = 0.991 W/kg



0 dB = 0.991 W/kg = -0.04 dBW/kg

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Date: 2022/3/21

Report No.: E5/2022/10003

Bluetooth(GFSK)_Body_Back Surface_CH 39_0mm_Aux

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.295 Medium parameters used: f = 2441 MHz; $\sigma = 1.851$ S/m; $\varepsilon_r = 40.365$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.644 W/kg

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

Reference Value = 92.14 V/m; Power Drift = 0.05 dB

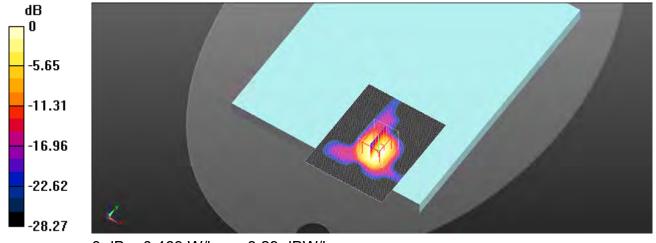
Peak SAR (extrapolated) = 0.661 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.154 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 0.469 W/kg



0 dB = 0.469 W/kg = -3.29 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11n(40M) 5.2G_Body_Back Surface_CH 46_0mm_Aux

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5230 MHz; $\sigma = 4.827 \text{ S/m}$; $\varepsilon_r = 37.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 12.72 V/m; Power Drift = -0.03 dB

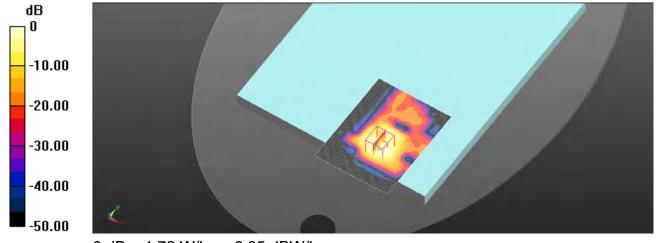
Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 0.927 W/kg; SAR(10 g) = 0.285 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.6%

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



0 dB = 1.72 W/kg = 2.35 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11ac(80M) 5.2G_Body_Back Surface_CH 42_0mm_Aux

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5210 MHz; σ = 4.806 S/m; ϵ_r = 37.123; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

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

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 78.54 V/m; Power Drift = -0.04 dB

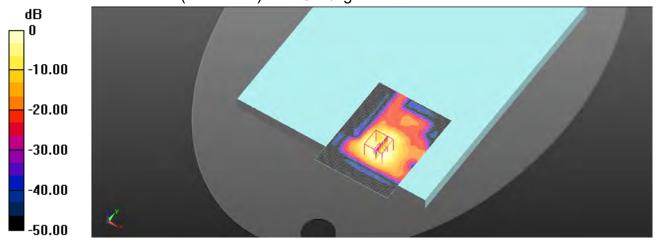
Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 0.980 W/kg; SAR(10 g) = 0.306 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 1.79 W/kg



0 dB = 1.79 W/kg = 2.54 dBW/kg

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11n(40M) 5.3G_Body_Back Surface_CH 54_0mm_Aux

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5270 MHz; $\sigma = 4.869 \text{ S/m}$; $\varepsilon_r = 37.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.32 W/kg

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

Reference Value = 45.67 V/m; Power Drift = 0.01 dB

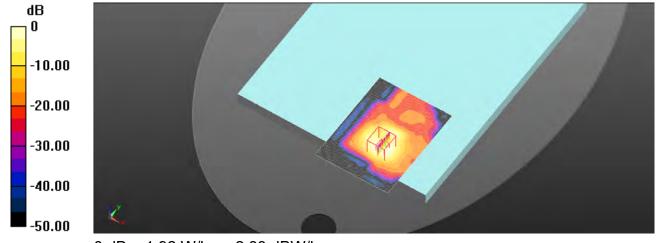
Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.317 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

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



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

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Date: 2022/3/22

Report No.: E5/2022/10003

WLAN 802.11ac(80M) 5.3G Body Back Surface CH 58 0mm Aux

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5290 MHz; $\sigma = 4.89 \text{ S/m}$; $\epsilon_r = 37.032$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 56.98 V/m; Power Drift = 0.02 dB

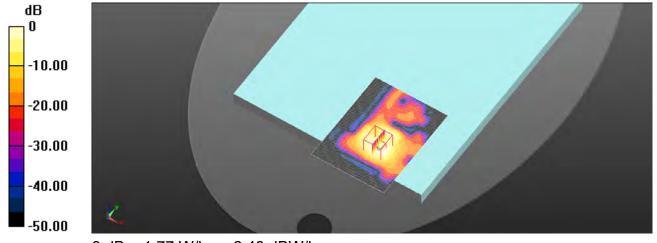
Peak SAR (extrapolated) = 3.31 W/kg

SAR(1 g) = 0.947 W/kg; SAR(10 g) = 0.290 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

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



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

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Date: 2022/3/23

Report No.: E5/2022/10003

WLAN 802.11n(40M) 5.6G_Body_Back Surface_CH 102_0mm_Aux

Communication System: WLAN; Frequency: 5510 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5510 MHz; $\sigma = 5.123 \text{ S/m}$; $\varepsilon_r = 36.78$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 37.28 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 0.850 W/kg; SAR(10 g) = 0.257 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 56%

Maximum value of SAR (measured) = 1.69 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 37.28 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.59 W/kg

SAR(1 g) = 0.803 W/kg; SAR(10 g) = 0.224 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 1.56 W/kg



0 dB = 1.56 W/kg = 1.94 dBW/kg

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Report No.: E5/2022/10003

WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 106_0mm_Aux

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5530 MHz; $\sigma = 5.144 \text{ S/m}$; $\varepsilon_r = 36.758$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.18 W/kg

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

Reference Value = 80.2 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.267 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 1.73 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 80.2 V/m; Power Drift = -0.05 dB

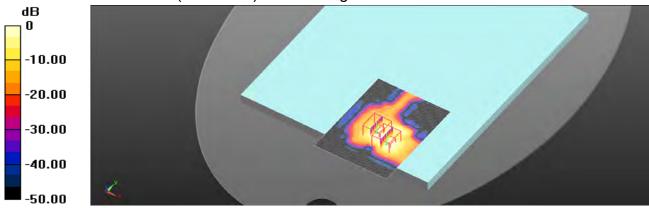
Peak SAR (extrapolated) = 4.08 W/kg

SAR(1 g) = 0.904 W/kg; SAR(10 g) = 0.228 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 1.89 W/kg



0 dB = 1.89 W/kg = 2.76 dBW/kg

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Report No.: E5/2022/10003

WLAN 802.11n(40M) 5.8G_Body_Back Surface_CH 159_0mm_Aux

Communication System: WLAN; Frequency: 5795 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5795 MHz; $\sigma = 5.422 \text{ S/m}$; $\varepsilon_r = 36.455$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.03 W/kg

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

Reference Value = 71.24 V/m; Power Drift = 0.02 dB

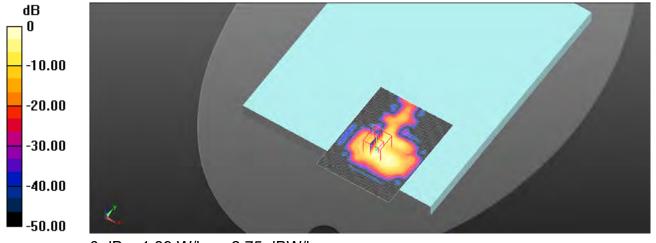
Peak SAR (extrapolated) = 4.35 W/kg

SAR(1 g) = 0.919 W/kg; SAR(10 g) = 0.227 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 1.89 W/kg



0 dB = 1.89 W/kg = 2.75 dBW/kg

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WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Aux

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.004

Medium parameters used: f = 5775 MHz; $\sigma = 5.401$ S/m; $\varepsilon_r = 36.478$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.79 W/kg

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

Reference Value = 12.14 V/m; Power Drift = 0.04 dB

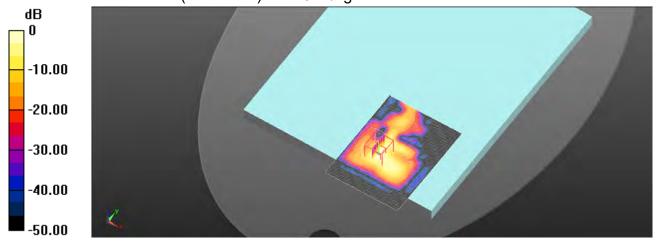
Peak SAR (extrapolated) = 3.83 W/kg

SAR(1 g) = 0.801 W/kg; SAR(10 g) = 0.186 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 1.70 W/kg



0 dB = 1.70 W/kg = 2.31 dBW/kg

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6. SAR System Performance Verification

Date: 2022/3/21

Report No. : E5/2022/10003 Dipole 2450 MHz_SN:727

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.859 \text{ S/m}$; $\varepsilon_r = 40.349$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (51x71x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.7 W/kg

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

Reference Value = 107.4 V/m; Power Drift = -0.05 dB

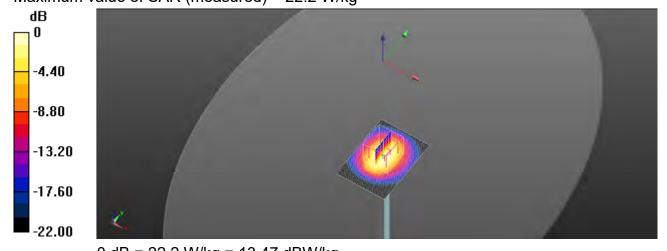
Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 13.57 W/kg; SAR(10 g) = 6.31 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 59.1%

Maximum value of SAR (measured) = 22.2 W/kg



0 dB = 22.2 W/kg = 13.47 dBW/kg

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Date: 2022/3/22

Report No. : E5/2022/10003 Dipole 5250 MHz_SN:1023

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5250 MHz; $\sigma = 4.848 \text{ S/m}$; $\varepsilon_r = 37.078$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

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

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.7 W/kg

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

Reference Value = 12.71 V/m; Power Drift = 0.03 dB

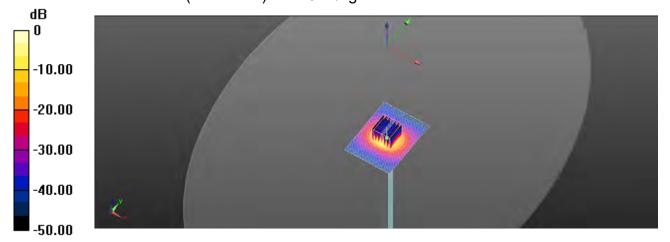
Peak SAR (extrapolated) = 33.4 W/kg

SAR(1 g) = 8.27 W/kg; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 17.5 W/kg



0 dB = 17.5 W/kg = 12.43 dBW/kg

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Date: 2022/3/23

Report No. : E5/2022/10003 Dipole 5600 MHz_SN:1023

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

Medium parameters used: f = 5600 MHz; $\sigma = 5.217 \text{ S/m}$; $\varepsilon_r = 36.678$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

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

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.7 W/kg

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

Reference Value = 52.71 V/m; Power Drift = -0.02 dB

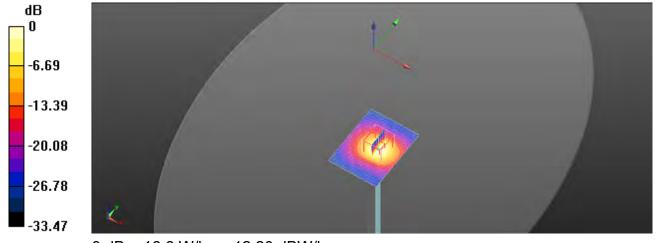
Peak SAR (extrapolated) = 35.5 W/kg

SAR(1 g) = 8.45 W/kg; SAR(10 g) = 2.36 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

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Date: 2022/3/23

Report No.: E5/2022/10003 **Dipole 5750 MHz_SN:1023**

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5750 MHz; $\sigma = 5.374 \text{ S/m}$; $\varepsilon_r = 36.506$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.7 W/kg

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

Reference Value = 60.97 V/m; Power Drift = -0.01 dB

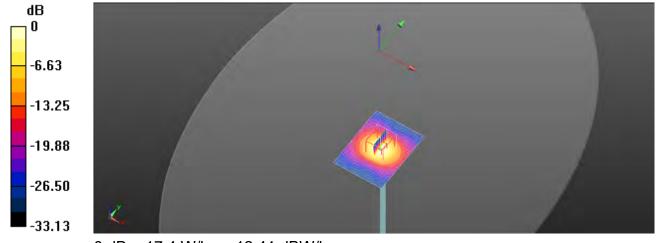
Peak SAR (extrapolated) = 37.6 W/kg

SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.35 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg

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7. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

	1				npiate for D		(
А	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertaint	Probabili ty	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	8
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	8
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	8
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	8
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	8
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	8
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	œ
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	œ
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	80
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
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%	8
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	8
Liquid permittivity (mea.)	3.26%	Ν	1	1	0.64	0.43	2.09%	1.40%	М
Liquid Conductivity (mea.)	3.02%	Ν	1	1	0.6	0.49	1.81%	1.48%	М
Combined standard uncertainty		RSS					12.04%	11.88%	
Expant uncertainty (95% confidence							24.08%	23.77%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

Α	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertaint	Probabili ty	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.93%	N	1	1	0.64	0.43	1.88%	1.26%	М
Liquid Conductivity (mea.)	3.38%	N	1	1	0.6	0.49	2.03%	1.66%	М
Combined standard uncertainty		RSS					11.75%	11.60%	
Expant uncertainty (95% confidence							23.49%	23.19%	

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Appendixes

Refer to separated files for the following appendixes.

E5202210003 SAR_Appendix A Photographs

E5202210003 SAR_Appendix B DAE & Probe Cal. Certificate

E5202210003 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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