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RF Exposure report





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

Product Name Notebook Computer

Brand Name

Model No.

N21C2

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 HLZAX211NG

Date of Receipt Feb. 08, 2021

Date of Test(s) Mar. 07, 2022 ~ Mar. 15, 2022

Date of Issue Mar. 28, 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.

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

Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Jasper Wang	Approved By / John Yeh		
Kimmy Chiou	Jasper Wang	John Teh		

Date: Mar. 28, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
ES/2022/20003	Rev.00	Initial creation of document	Mar. 28, 2022	Kimmy Chiou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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0. Guidance applied

- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note

(Interim Procedure for Device Operation at 6GHz-10GHz)

- IEC TR 63170:2018
- IEC 62479:2010
- FCC KDB 865664 D01 v01r04
- FCC KDB 865664 D02 v01r02
- FCC KDB 447498 D01 v06
- FCC KDB 616217 D04 v01r02
- FCC KDB 248227 D01 v02r02

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab				
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City,				
Taiwan				
FCC Designation	TW0027			
Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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 AMARASE	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:

Product Name	Notebook Comput	Notebook Computer				
Brand Name	acer	acer				
Model No.	N21C2					
Integrated Module		Brand Name: Intel® Wi-Fi 6E AX211 Model Name: AX211NGW				
FCC ID	HLZAX211NG	HLZAX211NG				
Mode of Operation	⊠WLAN802.11 ⊠Bluetooth					
Duty Cyclo	WLAN802.11	Refer to page 35-37				
Duty Cycle	Bluetooth	77.1%				
	802.11b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)				
Supported Radios	802.11a/n/ac/ax	5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)				
	802.11ax	6.0GHz (5925.0 - 7125.0MHz)				
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)				

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Summary of Maximum SAR and Power Density Value							
Mode	Highest SAR1g de Body (W/kg)		Highest PD (mW/cm²)				
2.4G WLAN	0.97	N/A	N/A				
5G WLAN	1.18	N/A	N/A				
6E WLAN	1.10	0.76	1.00				
Bluetooth(GFSK)	0.42	N/A	N/A				

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WLAN conducted power table:

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-uii power							
Main Main							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
		1	2412		18.00	17.91	
	802.11b	6	2437	1Mbps	18.00	17.97	
		11	2462		18.00	17.93	
		1	2412		18.00	17.72	
	802.11g	6	2437	6Mbps	18.00	17.79	
		11	2462		18.00	17.87	
		1	2412	MCS0	18.00	17.87	
	802.11n20-HT0	6	2437		18.00	17.81	
2.45GHz		11	2462		18.00	17.70	
2.430112		1	2412		18.00	17.90	
	802.11ax20-HE0	6	2437	MCS0	18.00	17.81	
		11	2462		18.00	17.89	
		3	2422		16.50	16.36	
	802.11n40-HT0	6	2437	MCS0	18.00	17.70	
		9	2452		17.00	16.76	
		3	2422		16.50	16.20	
	802.11ax40-HE0	6	2437	MCS0	18.00	17.90	
		9	2452		17.00	16.68	

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			Main			
		l	Viairi			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		18.00	17.89
	000 110	40	5200	GMbps	18.00	17.68
	802.11a	44	5220	6Mbps	18.00	17.83
		48	5240		18.00	17.81
		36	5180	MCS0	18.00	17.87
	802.11n20-HT0	40	5200		18.00	17.69
		44	5220		18.00	17.69
		48	5240		18.00	17.90
		36	5180	MCS0	18.00	17.70
5.15-5.25 GHz	000 11 ov 20 LIFO	40	5200		18.00	17.68
5.15-5.25 GHZ	802.11ax20-HE0	44	5220		18.00	17.67
		48	5240		18.00	17.69
	802.11n40-HT0	38	5190	MCSO	17.75	17.46
	002.111140-1110	46	5230	MCS0	18.00	17.66
	802.11ax40-HE0	38	5190	MCSO	17.75	17.59
	002.118X4U-⊓EU	46	5230	MCS0	18.00	17.86
	802.11ac80-VHT0	42	5210	MCS0	18.00	17.96
	802.11ax80-HE0	42	5210	MCS0	18.00	17.79
	802.11ac160-VHT0	50	5250	MCS0	15.25	14.93
	802.11ax160-HE0	50	5250	MCS0	15.25	15.16

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Main							
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Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
		52	5260		18.00	17.68	
	802.11a	56	5280	6Mbps	18.00	17.69	
	802.11a	60	5300	6Mbps	18.00	17.83	
		64	5320		18.00	17.92	
	802.11n20-HT0	52	5260	MCS0	18.00	17.78	
		56	5280		18.00	17.79	
		60	5300		18.00	17.67	
		64	5320		18.00	17.81	
5.25-5.35 GHz		52	5260		18.00	17.68	
5.25-5.35 GHZ	802.11ax20-HE0	56	5280	MCS0	18.00	17.68	
	002.11dX20-11E0	60	5300	IVICSU	18.00	17.65	
		64	5320		18.00	17.65	
	802.11n40-HT0	54	5270	MCS0	18.00	17.98	
	002.111140-1110	62	5310	IVICOU	17.00	16.92	
	802.11ax40-HE0	54	5270	MCS0	18.00	17.87	
	002.11αX 4 0-ΠΕ0	62	5310	IVICSU	17.00	16.79	
	802.11ac80-VHT0	58	5290	MCS0	17.75	17.47	
	802.11ax80-HE0	58	5290	MCS0	17.75	17.67	

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			Vain			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		18.00	17.70
	802.11a	120	5600	6Mbps	18.00	17.88
		140	5700	1	18.00	17.76
		100	5500		18.00	17.88
	802.11n20-HT0	120	5600	MCS0	18.00	17.87
		140	5700	1	18.00	17.76
		100	5500		18.00	17.78
	802.11ax20-HE0	120	5600	MCS0	18.00	17.67
		140	5700		18.00	17.67
5.6GHz		102	5510	MCS0	18.00	17.95
	802.11n40-HT0	118	5590		18.00	17.94
	802.111140-1110	134	5670		18.00	17.94
		142	5710		18.00	17.79
		102	5510		18.00	17.71
	802.11ax40-HE0	118	5590	MCS0	18.00	17.88
	602.11ax40-HE0	134	5670	IVICSU	18.00	17.68
		142	5710		18.00	17.92
		106	5530		18.00	17.87
	802.11ac80-VHT0	122	5610	MCS0	18.00	17.93
		138	5690]	18.00	17.96
		106	5530		18.00	17.88
	802.11ax80-HE0	122	5610	MCS0	18.00	17.82
		138	5690]	18.00	17.78
	802.11ac160-VHT0	114	5570	MCS0	15.50	15.22
	802.11ax160-HE0	114	5570	MCS0	15.50	15.42

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Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		149	5745		18.00	17.83		
	802.11a	157	5785	6Mbps	18.00	17.78		
		165	5825	1	18.00	17.88		
	802.11n20-HT0	149	5745	MCS0	18.00	17.93		
		157	5785		18.00	17.83		
		165	5825		18.00	17.80		
	802.11ax20-HE0	149	5745	MCS0	18.00	17.81		
5.8GHz		157	5785		18.00	17.92		
		165	5825		18.00	17.67		
	802.11n40-HT0	151	5755	MCS0	18.00	17.84		
	002.111140-1110	159	5795	IVICSU	18.00	17.66		
	802.11ax40-HE0	151	5755	MCS0	18.00	17.77		
	002. ΓΙαλ 4 0-ΓΙΕΌ	159	5795	IVICOU	18.00	17.87		
	802.11ac80-VHT0	155	5775	MCS0	18.00	17.98		
	802.11ax80-HE0	155	5775	MCS0	18.00	17.85		

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	Main									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		1	5955		7.00	6.94				
	802.11ax20-HE0	45	6175	MCS0	7.00	6.92				
		93	6415		7.00	6.92				
		3	5965		10.00	9.93				
	802.11ax40-HE0	43	6165	MCS0	10.00	9.95				
U-NII-5		91	6405		10.00	9.94				
6.2GHz		7	5985		13.00	12.94				
	802.11ax80-HE0	39	6145	MCS0	13.00	12.94				
		87	6385	<u> </u>	13.00	12.94				
		15	6025	MCS0	13.50	13.47				
	802.11ax160-HE0	47	6185		13.50	13.43				
		79	6345		13.50	13.46				

	Main Main									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
	802.11ax20-HE0	97	6435	MCS0	7.00	6.93				
		105	6475		7.00	6.92				
		113	6515		7.00	6.93				
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.93				
6.5GHz	002.11ax40-ne0	107	6485	IVICSU	10.00	9.95				
	902 11av90 UE0	103	6465	MCS0	13.00	12.94				
	802.11ax80-HE0	119	6545		13.00	12.93				
	802.11ax160-HE0	111	6505	MCS0	13.50	13.48				

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	Main										
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		117	6535		7.00	6.93					
	802.11ax20-HE0	149	6695	MCS0	7.00	6.95					
		181	6855		7.00	6.93					
		115	6525		10.00	9.94					
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	9.94					
6.7GHz		179	6845		10.00	9.93					
0.7 GHZ		135	6625		13.00	12.93					
	802.11ax80-HE0	151	6705	MCS0	13.00	12.95					
		167	6785		13.00	12.92					
	802.11ax160-HE0	143	6665	MCS0	13.50	13.49					
	002.11ax100-MEU	175	6825	IVICSU	13.50	13.46					

Main										
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		185	6875	MCS0	7.00	6.95				
	802.11ax20-HE0	209	6995		7.00	6.93				
		233	7115		7.00	6.92				
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.93				
7.0GHz	002.11aX40-ΠΕU	227	7085	IVICSU	10.00	9.94				
1.000		183	6865		13.00	12.93				
	802.11ax80-HE0	199	6945	MCS0	13.00	12.95				
		215	7025		13.00	12.93				
	802.11ax160-HE0	207	6985	MCS0	13.50	13.46				

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			Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		1	2412		18.00	17.90			
	802.11b	6	2437	1Mbps	18.00	17.96			
		11	2462		18.00	17.91			
	802.11g	1	2412		18.00	17.81			
		6	2437	6Mbps	18.00	17.75			
		11	2462		18.00	17.79			
		1	2412	MCS0	18.00	17.71			
	802.11n20-HT0	6	2437		18.00	17.77			
2.45GHz		11	2462		18.00	17.76			
2.45GHZ		1	2412		18.00	17.90			
	802.11ax20-HE0	6	2437	MCS0	18.00	17.86			
		11	2462		18.00	17.74			
		3	2422		16.25	15.95			
	802.11n40-HT0	6	2437	MCS0	18.00	17.75			
		9	2452		16.00	15.70			
		3	2422		16.25	16.02			
	802.11ax40-HE0	6	2437	MCS0	18.00	17.70			
		9	2452		16.00	15.82			

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			A			
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		18.00	17.90
	802.11a	40	5200	GMbps	18.00	17.81
	002.11a	44	5220	- 6Mbps	18.00	17.70
		48	5240		18.00	17.77
	802.11n20-HT0	36	5180		18.00	17.78
		40	5200	MCCO	18.00	17.69
		44	5220	MCS0	18.00	17.79
		48	5240		18.00	17.86
		36	5180		18.00	17.85
5.15-5.25 GHz	000 110v20 LIF0	40	5200	MCS0	18.00	17.95
5.15-5.25 GHZ	802.11ax20-HE0	44	5220	IVICSU	18.00	17.76
		48	5240		18.00	17.81
	802.11n40-HT0	38	5190	MCCO	18.00	17.80
	δ02.11Π 4 0-Π10	46	5230	MCS0	18.00	17.79
	802.11ax40-HE0	38	5190	MCSO	18.00	17.68
	002.118X4U-⊓EU	46	5230	MCS0	18.00	17.66
	802.11ac80-VHT0	42	5210	MCS0	18.00	17.98
	802.11ax80-HE0	42	5210	MCS0	18.00	17.73
	802.11ac160-VHT0	50	5250	MCS0	16.00	15.80
	802.11ax160-HE0	50	5250	MCS0	16.00	15.79

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		18.00	17.84
	802.11a	56	5280	6Mbps	18.00	17.66
	002.11a	60	5300	Olvibps	18.00	17.88
		64	5320		18.00	17.67
		52	5260		18.00	17.78
	802.11n20-HT0	56	5280	MCS0	18.00	17.83
	002.11112011110	60	5300	141000	18.00	17.71
		64	5320		18.00	17.78
5.25-5.35 GHz		52	5260	1	18.00	17.87
0.20-0.00 Of 12	802.11ax20-HE0	56	5280	MCS0	18.00	17.93
	002.11ax20-11L0	60	5300	10000	18.00	17.89
		64	5320		18.00	17.86
	802.11n40-HT0	54	5270	MCS0	18.00	17.87
	002.111140-1110	62	5310	WOOO	18.00	17.76
	802.11ax40-HE0	54	5270	MCS0	18.00	17.82
	002.118X40-⊓⊑0	62	5310	10000	18.00	17.91
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.97
	802.11ax80-HE0	58	5290	MCS0	18.00	17.91

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		18.00	17.81
	802.11a	120	5600	6Mbps	18.00	17.89
		140	5700		18.00	17.95
		100	5500		18.00	17.92
	802.11n20-HT0	120	5600	MCS0	18.00	17.88
		140	5700		18.00	17.82
		100	5500		18.00	17.66
	802.11ax20-HE0	120	5600	MCS0	18.00	17.67
		140	5700		18.00	17.92
		102	5510		18.00	17.75
	802.11n40-HT0	118	5590	MCS0	18.00	17.83
	802.111140-1110	134	5670	IVICSU	18.00	17.74
5.6GHz		142	5710		18.00	17.68
		102	5510		18.00	17.81
	802.11ax40-HE0	118	5590	MCS0	18.00	17.92
	802.11ax40-HE0	134	5670	IVICSU	18.00	17.93
		142	5710		18.00	17.93
		106	5530		18.00	17.91
	802.11ac80-VHT0	122	5610	MCS0	18.00	17.87
		138	5690		18.00	17.98
		106	5530		18.00	17.81
	802.11ax80-HE0	122	5610	MCS0	18.00	17.73
		138	5690]	18.00	17.89
	802.11ac160-VHT0	114	5570	MCS0	16.25	16.01
	802.11ax160-HE0	114	5570	MCS0	16.25	16.18

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			Aux			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		18.00	17.67
	802.11a 802.11n20-HT0	157	5785	6Mbps	18.00	17.79
		165	5825		18.00	17.68
		149	5745	MCS0	18.00	17.65
		157	5785		18.00	17.93
		165	5825		18.00	17.93
		149	5745		18.00	17.67
5.8GHz	802.11ax20-HE0	157	5785	MCS0	18.00	17.89
		165	5825		18.00	17.90
	802.11n40-HT0	151	5755	MCS0	18.00	17.83
	002.111140-1110	159	5795	IVICSU	18.00	17.82
	802.11ax40-HE0	151	5755	MCS0	18.00	17.88
	002.11ax40-11EU	159	5795	IVICOU	18.00	17.70
	802.11ac80-VHT0	155	5775	MCS0	18.00	17.99
	802.11ax80-HE0	155	5775	MCS0	18.00	17.89

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	Aux									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		1	5955		7.00	6.95				
	802.11ax20-HE0	45	6175	MCS0	7.00	6.94				
		93	6415		7.00	6.93				
		3	5965		10.00	9.92				
	802.11ax40-HE0	43	6165	MCS0	10.00	9.95				
U-NII-5		91	6405	[10.00	9.92				
6.2GHz		7	5985		13.00	12.95				
	802.11ax80-HE0	39	6145	MCS0	13.00	12.93				
		87	6385		13.00	12.95				
		15	6025	MCS0	13.50	13.47				
	802.11ax160-HE0	47	6185		13.50	13.48				
		79	6345		13.50	13.44				

Aux									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
	802.11ax20-HE0	97	6435	MCS0	7.00	6.93			
		105	6475		7.00	6.93			
		113	6515		7.00	6.93			
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.94			
6.5GHz	002.11ax40-ne0	107	6485	IVICSU	10.00	9.95			
	802.11ax80-HE0	103	6465	MCS0	13.00	12.92			
	002.11aX00-MEU	119	6545	IVICSU	13.00	12.94			
	802.11ax160-HE0	111	6505	MCS0	13.50	13.45			

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	Aux										
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		117	6535		7.00	6.94					
	802.11ax20-HE0	149	6695	MCS0	7.00	6.93					
		181	6855		7.00	6.92					
		115	6525		10.00	9.92					
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	9.93					
6.7GHz		179	6845		10.00	9.94					
0.7 GHZ		135	6625		13.00	12.92					
	802.11ax80-HE0	151	6705	MCS0	13.00	12.94					
		167	6785		13.00	12.95					
	802.11ax160-HE0	143	6665	MCCO	13.50	13.44					
	002.11ax100-MEU	175	6825	MCS0	13.50	13.48					

			Aux			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		185	6875	MCS0	7.00	6.93
	802.11ax20-HE0	209	6995		7.00	6.93
	802.11ax20-HE0	233	7115		7.00	6.94
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.92
7.0GHz	002.11ax40-ne0	227	7085	IVICSU	10.00	9.92
1.000		183	6865		13.00	12.92
	802.11ax80-HE0	199	6945	MCS0	13.00	12.93
		215	7025		13.00	12.95
	802.11ax160-HE0	207	6985	MCS0	13.50	13.47

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Down power

Down power		-				
			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		14.50	14.42
	802.11b	6	2437	1Mbps	14.50	14.46
		11	2462		14.50	14.47
		1	2412 14.50	14.50	14.21	
	802.11g	6	2437	6Mbps	14.50	14.38
		11	2462		14.50	14.36
	802.11n20-HT0	1	2412	MCS0	14.50	14.40
		6	2437		14.50	14.37
2.45GHz		11	2462		14.50	14.42
2.430112		1	2412		14.50	14.35
	802.11ax20-HE0	6	2437	MCS0	14.50	14.17
		11	2462		14.50	14.31
		3	2422		14.50	14.37
	802.11n40-HT0	6	2437	MCS0	14.50	14.44
		9	2452		14.50	14.29
		3	2422		14.50	14.21
	802.11ax40-HE0	6	2437	MCS0	14.50	14.33
		9	2452		14.50	14.20

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			Vain			
		l l	Viairi			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		11.50	11.34
	802.11a	40	5200	GMbps	11.50	11.16
	002.11a	44	5220	- 6Mbps	11.50	11.34
		48	5240		11.50 11.50 11.50	11.43
		36	5180	11.50	11.33	
	802.11n20-HT0	40	5200		11.50	11.15
		44	5220		11.50	11.22
		48	5240		11.50	11.32
		36	5180		11.50	11.37
5.15-5.25 GHz	802.11ax20-HE0	40	5200	MCS0	11.50	11.42
5.15-5.25 GHZ	002.11ax20-HEU	44	5220	IVICSU	11.50	11.18
		48	5240		11.50	11.42
	802.11n40-HT0	38	5190	MCSO	11.50	11.28
	ου2. I III 4 U-Π I U	46	5230	MCS0	11.50	11.34
	802.11ax40-HE0	38	5190	MCS0	11.50	11.32
	ου2. 1 18X4U-ΠΕU	46	5230	IVICSU	11.50	11.23
	802.11ac80-VHT0	42	5210	MCS0	11.50	11.38
	802.11ax80-HE0	42	5210	MCS0	11.50	11.24
	802.11ac160-VHT0	50	5250	MCS0	11.50	11.46
	802.11ax160-HE0	50	5250	MCS0	11.50	11.40

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			Main			
			viaii i			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		11.50	11.16
İ	802.11a	56	5280	6Mbps	11.50	11.38
	002.11a	60	5300	GIVIDPS	11.50	11.19
		64	5320		11.50 11.50 11.50 11.50	11.20
	802.11n20-HT0	52	5260	MCS0	11.50	11.19
		56	5280		11.50	11.42
		60	5300		11.50	11.19
		64	5320		11.50	11.22
5.25-5.35 GHz		52	5260		11.50	11.16
5.25-5.35 GHZ	802.11ax20-HE0	56	5280	MCS0	11.50	11.35
	002.11dx20-11E0	60	5300	IVICSU	11.50	11.21
		64	5320		11.50	11.19
	802.11n40-HT0	54	5270	MCS0	11.50	11.23
	002.111140-1110	62	5310	IVICOU	11.50	11.15
	802.11ax40-HE0	54	5270	MCS0	11.50	11.31
	002.11aX40-11E0	62	5310	IVICSU	11.50	11.23
	802.11ac80-VHT0	58	5290	MCS0	11.50	11.46
	802.11ax80-HE0	58	5290	MCS0	11.50	11.19

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			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		12.00	11.86
	802.11a	120	5600	6Mbps	12.00	11.84
		140	5700	1	12.00	11.82
		100	5500		12.00	11.66
	802.11n20-HT0	120	5600	MCS0	12.00	11.66
		140	5700		12.00	11.85
	802.11ax20-HE0	100	5500		12.00	11.94
		120	5600	MCS0	12.00	11.84
		140	5700	1	12.00	11.67
		102	5510		12.00	11.76
	802.11n40-HT0	118	5590	MCS0	12.00	11.86
	602.1111 4 0-F110	134	5670		12.00	11.68
5.6GHz		142	5710		12.00	11.67
		102	5510		12.00	11.75
	802.11ax40-HE0	118	5590	MCS0	12.00	11.82
	002.11ax40-HEU	134	5670	IVICSU	12.00	11.93
		142	5710		12.00	11.66
		106	5530		12.00	11.97
	802.11ac80-VHT0	122	5610	MCS0	12.00	11.89
		138	5690		12.00	11.93
		106	5530		12.00	11.65
	802.11ax80-HE0	122	5610	MCS0	12.00	11.91
		138	5690	<u>] </u>	12.00	11.74
	802.11ac160-VHT0	114	5570	MCS0	12.00	11.98
	802.11ax160-HE0	114	5570	MCS0	12.00	11.83

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			Main	1		
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		11.50	11.40
	802.11a	157	5785	6Mbps	11.50	11.17
		165	5825		11.50	11.22
		149	5745 11.50	11.50	11.22	
	802.11n20-HT0	157	5785	MCS0	11.50	11.41
		165	5825		11.50	11.40
		149	5745		11.50	11.26
5.8GHz	802.11ax20-HE0	157	5785	MCS0	11.50	11.28
		165	5825		11.50	11.20
	802.11n40-HT0	151	5755	MCS0	11.50	11.19
	002.111140-1110	159	5795	IVICOU	11.50	11.32
	802.11ax40-HE0	151	5755	MCS0	11.50	11.36
	002.11ax40-11EU	159	5795	IVICOU	11.50	11.39
	802.11ac80-VHT0	155	5775	MCS0	11.50	11.49
	802.11ax80-HE0	155	5775	MCS0	11.50	11.32

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			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
802		1	5955		7.00	6.83
	802.11ax20-HE0	45	6175	MCS0	7.00	6.74
	002.114,201120	93	6415		7.00	6.70
		3	5965	MCS0	10.00	9.94
	802.11ax40-HE0	43	6165		10.00	9.88
U-NII-5		91	6405		10.00	9.78
6.2GHz		7	5985		13.00	12.75
	802.11ax80-HE0	39	6145	MCS0	13.00	12.71
		87	6385		13.00	12.87
		15	6025		13.00	12.98
	802.11ax160-HE0	47	6185	MCS0	13.00	12.97
		79	6345		13.00	12.89

	Ma	in			
Band	Mode	Channel	Frequency (MHz)	Data Rate	
		117	6535		
	802.11ax20-HE0	149	6695	MCS0	
		181	6855		
		115	6525		
U-NII-7	802.11ax40-HE0	147	6685	MCS0	
6.7GHz		179	6845		
0.7 GHZ		135	6625		
	802.11ax80-HE0	151	6705	MCS0	
		167	6785]	
	802.11ax160-HE0	143	6665	MCS0	
	002.11ax100-HEU	175	6825	IVICSU	

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			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412 14.00		13.91	
	802.11b	6	2437	1Mbps	14.00	13.97
		11	2462		14.00	13.95
		1	2412	1	14.00	13.66
	802.11g	6	2437	6Mbps	14.00	13.86
		11	2462		14.00	13.69
		1		14.00	13.75	
	802.11n20-HT0	6	2437	MCS0	14.00	13.70
2.45GHz		11	2462		14.00	13.81
2.400112		1	2412	1	14.00	13.79
	802.11ax20-HE0	6	2437	MCS0	14.00	13.94
		11	2462		14.00	13.68
		3	2422]	14.00	13.82
	802.11n40-HT0	6	2437	MCS0	14.00	13.76
		9	2452		14.00	13.78
		3	2422]	14.00	13.75
	802.11ax40-HE0	6	2437	MCS0	14.00	13.95
		9	2452		14.00	13.90

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			A			
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		12.00	11.89
	802.11a	40	5200	GMbps	12.00	11.92
	602.11a	44	5220	- 6Mbps	12.00	11.75
		48	5240		12.00	11.82
		36	5180	12.00	11.69	
	802.11n20-HT0	40	5200		12.00	11.68
		44	5220	MCS0	12.00	11.84
		48	5240		12.00	11.66
	20244 22152	36	5180	MOOO	12.00	11.71
5.15-5.25 GHz		40	5200		12.00	11.84
5.15-5.25 GHZ	802.11ax20-HE0	44	5220	MCS0	12.00	11.87
		48	5240		12.00	11.80
	802.11n40-HT0	38	5190	MCCO	12.00	11.75
	802.1111 4 0-1110	46	5230	MCS0	12.00	11.80
	802.11ax40-HE0	38	5190	MCSO	12.00	11.69
	002.118X4U-PEU	46	5230	MCS0	12.00	11.76
	802.11ac80-VHT0	42	5210	MCS0	12.00	11.70
	802.11ax80-HE0	42	5210	MCS0	12.00	11.71
	802.11ac160-VHT0	50	5250	MCS0	12.00	11.96
ı	802.11ax160-HE0	50	5250	MCS0	12.00	11.91

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			Aux			
	_	T	Aux	1		
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		12.00	11.92
	802.11a	56	5280	6Mbps	12.00	11.78
	002.11a	60	5300	Olvibps	12.00	11.86
		64	5320		12.00	11.69
	802.11n20-HT0	52	5260	MCS0	12.00	11.92
		56	5280		12.00	11.81
		60	5300		12.00	11.82
		64	5320		12.00	11.87
5.25-5.35 GHz		52	5260		12.00	11.73
5.25-5.35 GHZ	802.11ax20-HE0	56	5280	MCS0	12.00	11.83
	002.11dx20-11E0	60	5300	IVICSU	12.00	11.75
		64	5320		12.00	11.73
	802.11n40-HT0	54	5270	MCS0	12.00	11.72
	002.111140-1110	62	5310	IVICOU	12.00	11.83
	802.11ax40-HE0	54	5270	MCS0	12.00	11.91
	002.11dX40-11E0	62	5310	IVICSU	12.00	11.70
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.94
	802.11ax80-HE0	58	5290	MCS0	12.00	11.72

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			•			
		1	Aux	1		
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		11.00	10.91
	802.11a	120	5600	6Mbps	11.00	10.73
		140	5700	1	11.00	10.91
		100	5500		11.00	10.90
	802.11n20-HT0	120	5600	MCS0	11.00	10.87
		140	5700	1	11.00	10.89
		100	5500		11.00	10.73
	802.11ax20-HE0	120	5600	MCS0	11.00	10.84
		140	5700	1	11.00	10.94
		102	5510		11.00	10.77
	802.11n40-HT0	118	5590	MCS0	11.00	10.77
	802.111140-1110	134	5670		11.00	10.88
5.6GHz		142	5710		11.00	10.80
		102	5510		11.00	10.78
	802.11ax40-HE0	118	5590	MCS0	11.00	10.94
	802.118X40-HE0	134	5670	IVICSU	11.00	10.76
		142	5710		11.00	10.71
		106	5530		11.00	10.93
	802.11ac80-VHT0	122	5610	MCS0	11.00	10.94
		138	5690]	11.00	10.86
		106	5530		11.00	10.87
	802.11ax80-HE0	122	5610	MCS0	11.00	10.69
		138	5690]	11.00	10.78
	802.11ac160-VHT0	114	5570	MCS0	11.00	10.98
	802.11ax160-HE0	114	5570	MCS0	11.00	10.88

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Aux							
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
		149	5745		12.00	11.86	
	802.11a	157	5785	6Mbps	12.00	11.74	
		165	5825		12.00	11.83	
	802.11n20-HT0	149	5745	MCS0	12.00	11.71	
		157	5785		12.00	11.90	
		165	5825		12.00	11.77	
	802.11ax20-HE0	149	5745		12.00	11.72	
5.8GHz		157	5785	MCS0	12.00	11.67	
		165	5825		12.00	11.73	
	802.11n40-HT0	151	5755	MCS0	12.00	11.90	
	002.111140-1110	159	5795	IVICOU	12.00	11.95	
	802.11ax40-HE0	151	5755	MCS0	12.00	11.81	
	002.11aX40-11E0	159	5795	IVICOU	12.00	11.80	
	802.11ac80-VHT0	155	5775	MCS0	12.00	11.98	
	802.11ax80-HE0	155	5775	MCS0	12.00	11.76	

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Aux							
Band	Mode	Channel	Frequency (MHz)	Data Rate			
		1	5955				
	802.11ax20-HE0	45	6175	MCS0			
		93	6415				
	802.11ax40-HE0	3	5965				
		43	6165	MCS0			
U-NII-5		91	6405				
6.2GHz	802.11ax80-HE0	7	5985				
		39	6145	MCS0			
		87	6385				
	802.11ax160-HE0	15	6025				
		47	6185	MCS0			
		79	6345				

Aux								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	7.00	6.65		
		149	6695		7.00	6.91		
		181	6855		7.00	6.80		
	802.11ax40-HE0	115	6525		10.00	9.67		
		147	6685	MCS0	10.00	9.80		
		179	6845		10.00	9.75		
	802.11ax80-HE0	135	6625		12.50	12.42		
		151	6705	MCS0	12.50	12.25		
		167	6785		12.50	12.34		
	802.11ax160-HE0	143	6665	MCS0	12.50	12.46		
	002.11ax100-HEU	175	6825	IVICSU	12.50	12.45		

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Bluetooth conducted power table:

			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		8.51		7.50		7.50
BR/EDR	CH 39	2441	10.50	8.57	9.50	7.89	9.50	7.88
	CH 78	2480		9.08		8.35		8.34

Mode	Channel	Frequency (MHz)	GFSK			
Mode	Chariner		Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)		
	CH 00	2402		8.06		
BLE_1M	CH 19	2440	9	8.37		
	CH 39	2480		8.87		

Mode Channel	Channel	Frequency (MHz)	GFSK			
	Charmer		Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)		
	CH 00	2402		7.21		
BLE_2M	CH 19	2440	9	7.46		
	CH 39	2480		7.97		

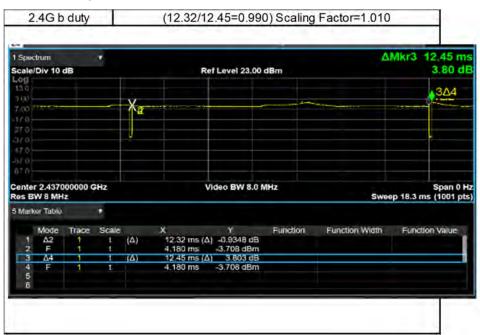
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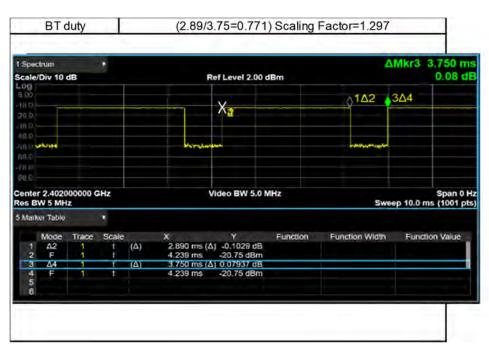
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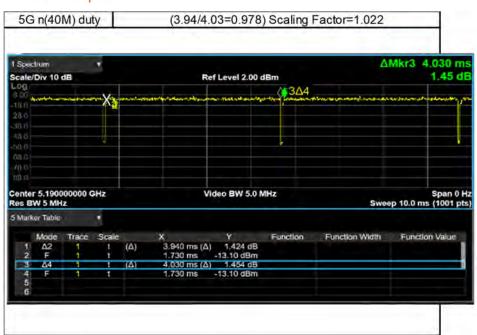


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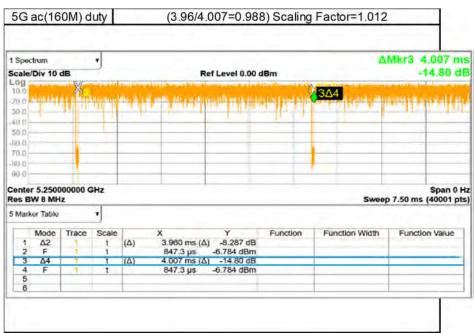
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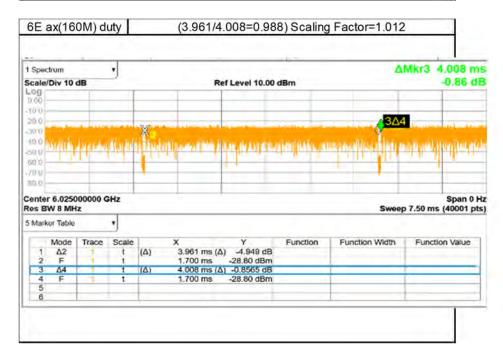
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1.4 Test Environment

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

1.5 Operation Description

- 1. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band.
- 2. 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.
- 3. 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.
- 4. Per 201904 TCBC workshops, general principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing.
- 5. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
- 6. 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)
- 7. WIFI 6E of the device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
- 8. Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
- 9. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209-1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance).

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- 10. For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
- 11. The PD test was performed with a 2 mm separation between probe sensor and EUT bottom surface.
- 12. According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.

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1.6 EUT Testing Position

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

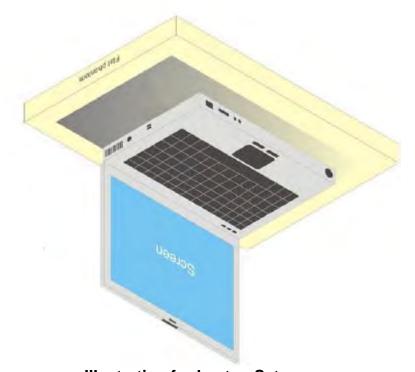


Illustration for Laptop Setup

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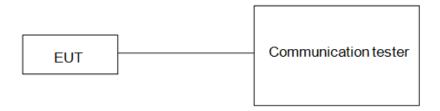
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1.7 Proximity sensor operation description

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

1.7.1 Proximity sensor measurement procedure

- 1. The proximity sensor is collocated with WLAN antenna.
- 2. Output power is measured, and monitored by using the base station simulator. A RF cables with sufficient length was being attached from the antenna port of the module, and used for the measurement. The appropriate loss attenuated from cable is compensated in the test setup.



1.7.2 Trigger distances for bottom

Test procedure:

- 1. The entire bottom surface of the keyboard is positioned below a flat phantom filled with the required tissue equivalent medium and positioned at least 20 mm further than the distance that triggers power reduction.
- 2. The bottom surface of the keyboard is moved toward the phantom in 3 mm steps until the sensor triggers.
- 3. The bottom surface of the keyboard is then moved back (further away) from the phantom until maximum output power is returned to the normal maximum level.
- 4. The bottom surface of the keyboard is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom
- 5. If the bottom surface of the keyboard is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.

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

- 7. The measured output power within ± 5 mm of the triggering points, or until the bottom surface of the keyboard is touching the phantom, for movements to and from the phantom should be tabulated.
- 8. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.
- 9. For bottom surface of the keyboard, the trigger distance is 9mm.
- 1.7.3 Tilt angle testing (This is not required for this device)

Test procedure:

- The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.7.2 by rotating the tablet around the edge next to the phantom in ≤ 10 deg increments until the tablet is +/- 45deg or more from the vertical position at 0 deg.
- 2. If sensor triggering is released and normal maximum output power is restored within the +/- 45deg range, the procedures in step 1) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
- 3. The smallest separation distance determined in steps 1) and 2), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in sections 1.7.2, 1.7.3 minus 1 mm should be used in the SAR measurements.

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1.7.4 Proximity sensor coverage (This is not required for this device because the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.)

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

Test procedure:

- The back surface or edges of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset.
- 2. The similar sequence of steps applied to determine sensor triggering distance in section 1.7.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.
- 3. After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
- 4. The process is then repeated from the other direction, at the opposite end of maximum antenna and sensor offset, by rotating the tablet 180 degrees.

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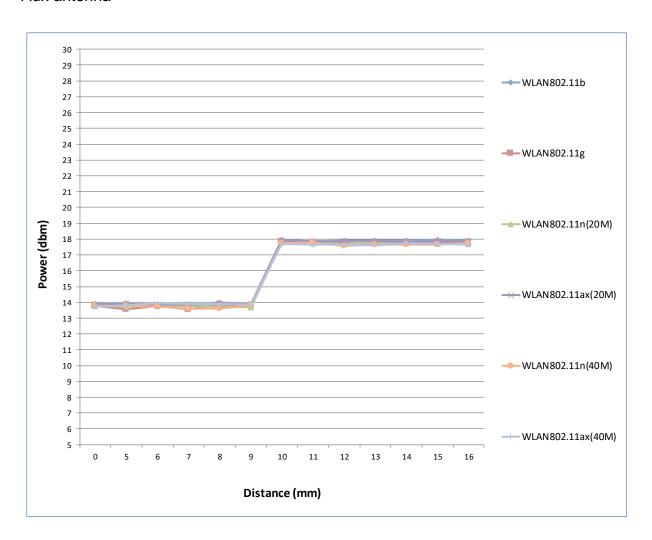
1.7.5 Results

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

Bottom Surface

Moving device toward the phantom

Aux antenna



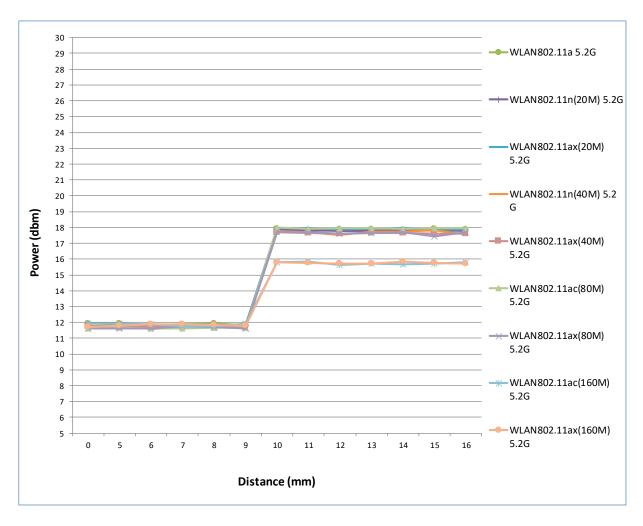
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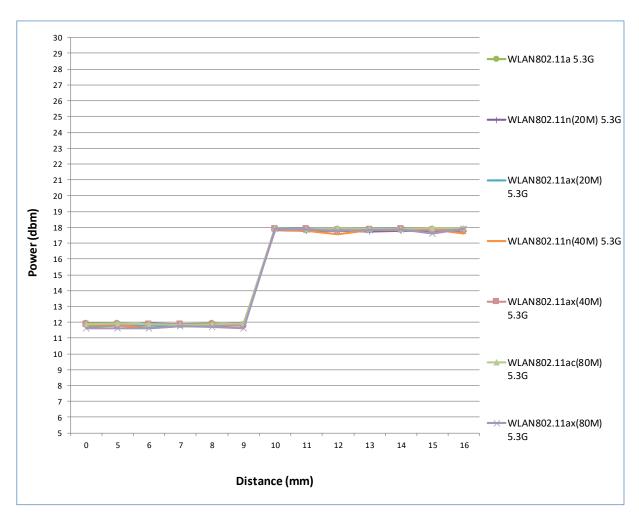
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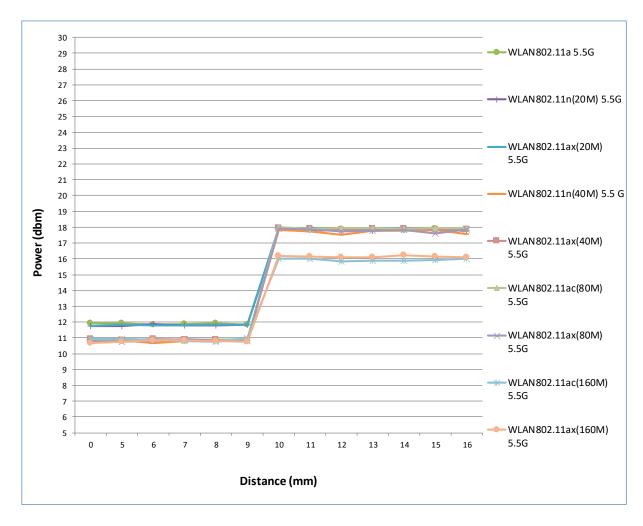


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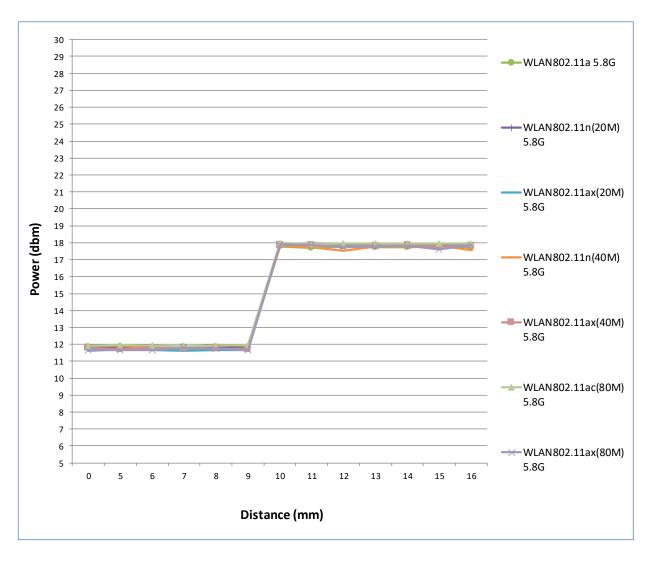


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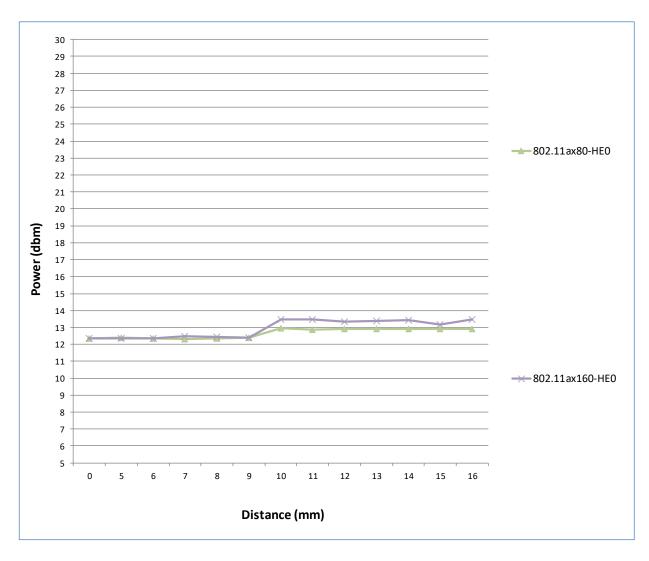
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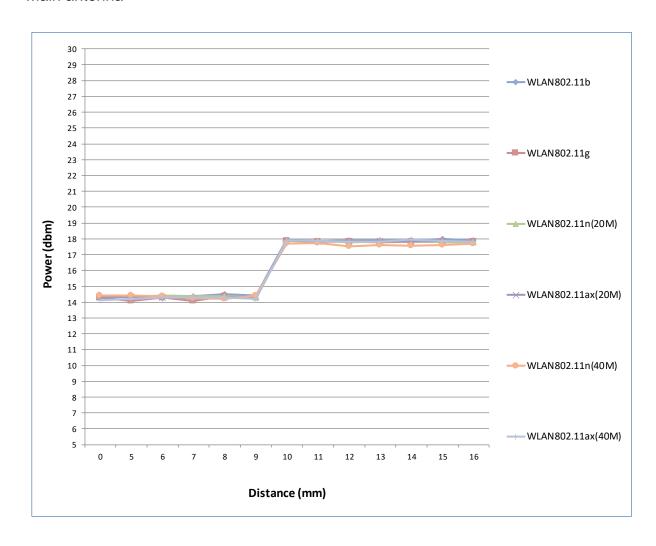
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Main antenna

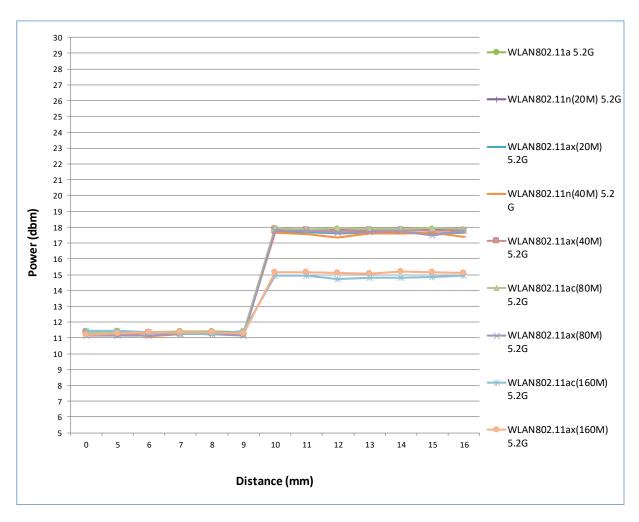


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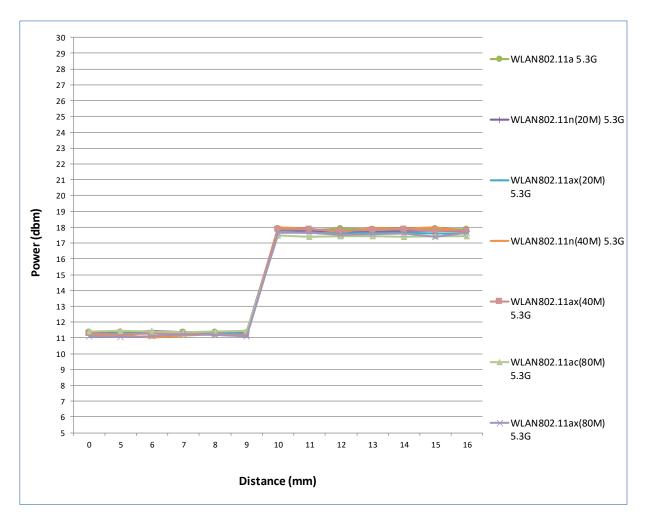
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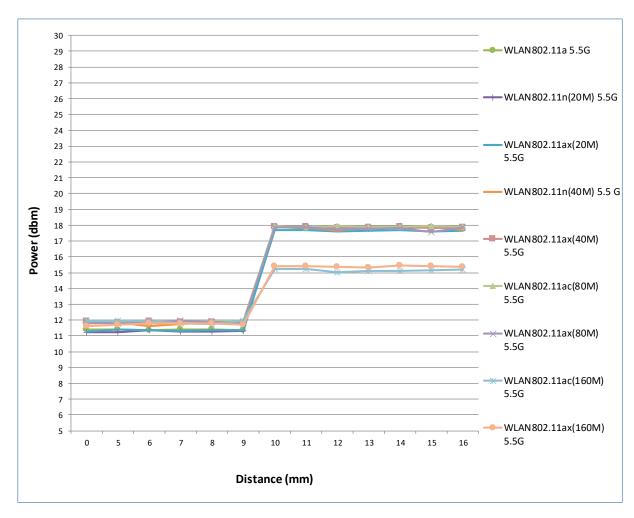
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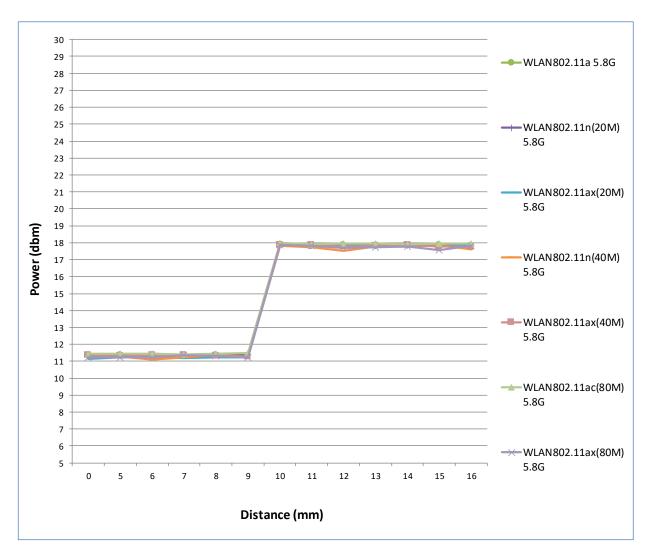
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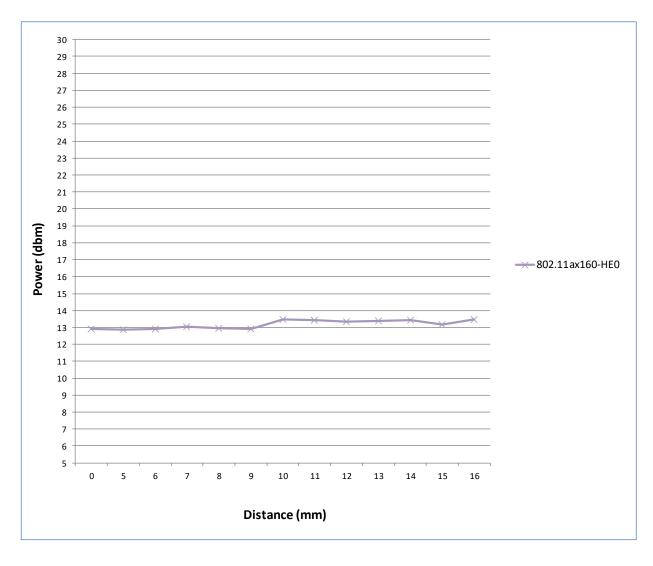
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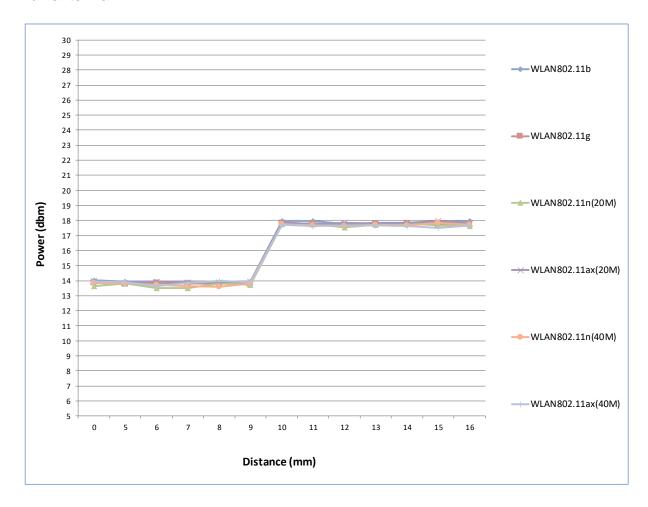
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Moving device away from the phantom

Aux antenna

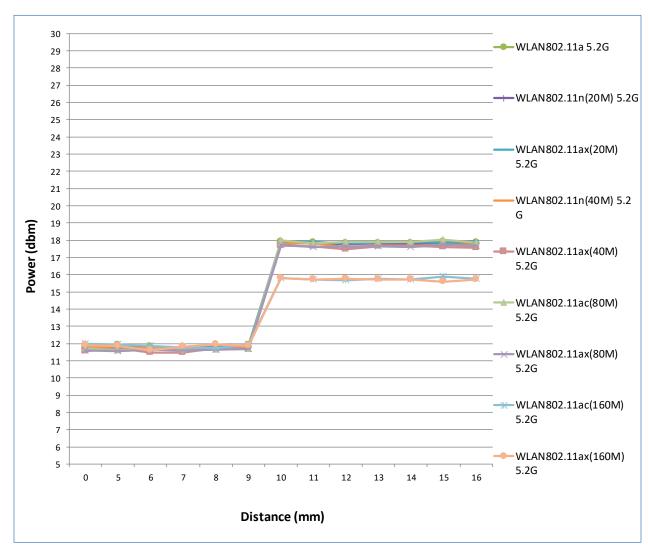


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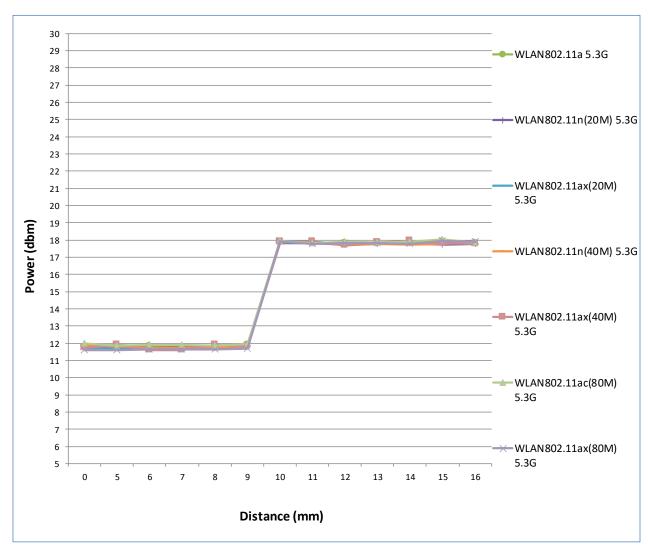
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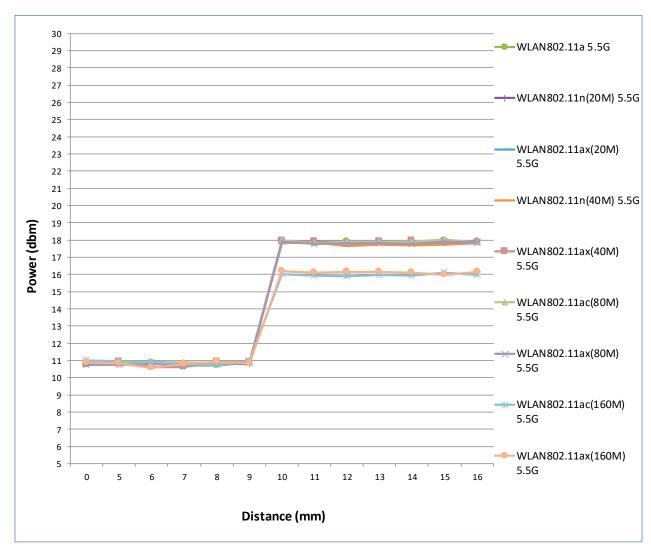
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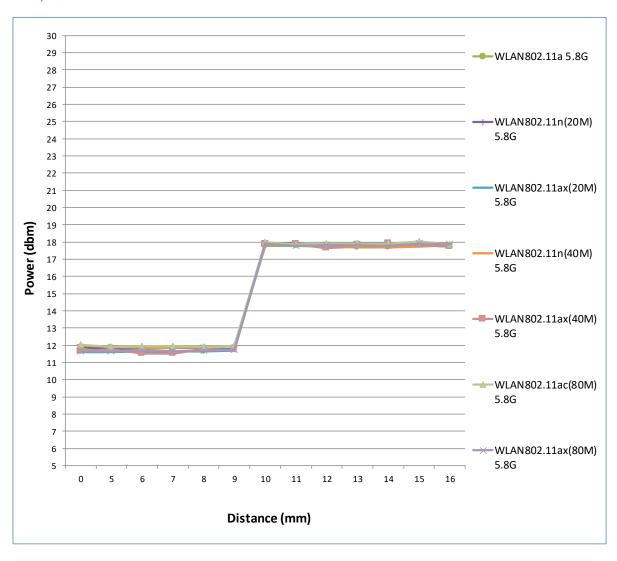
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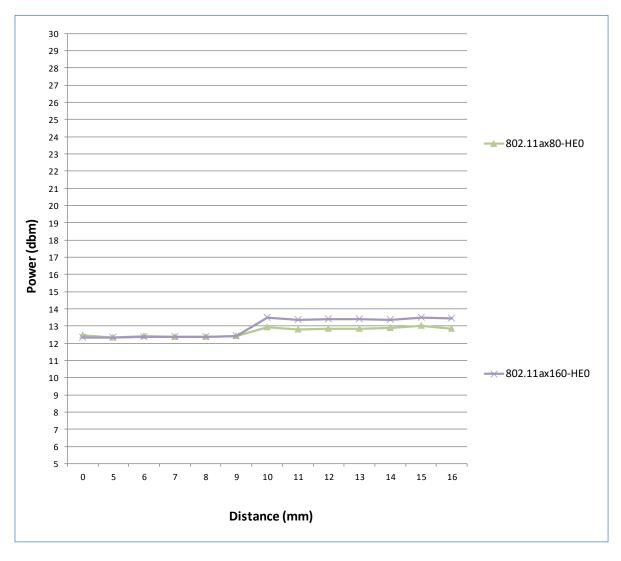
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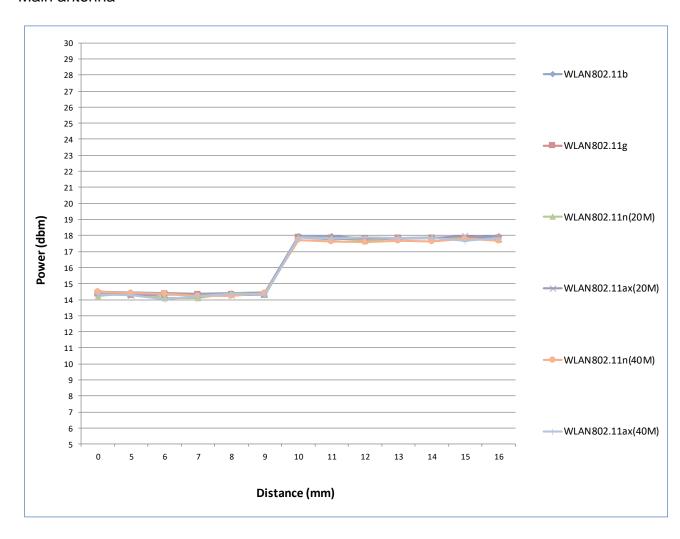
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Main antenna

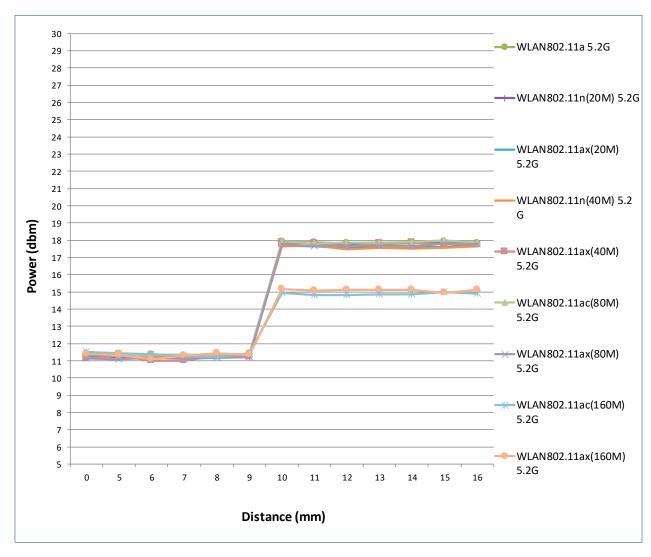


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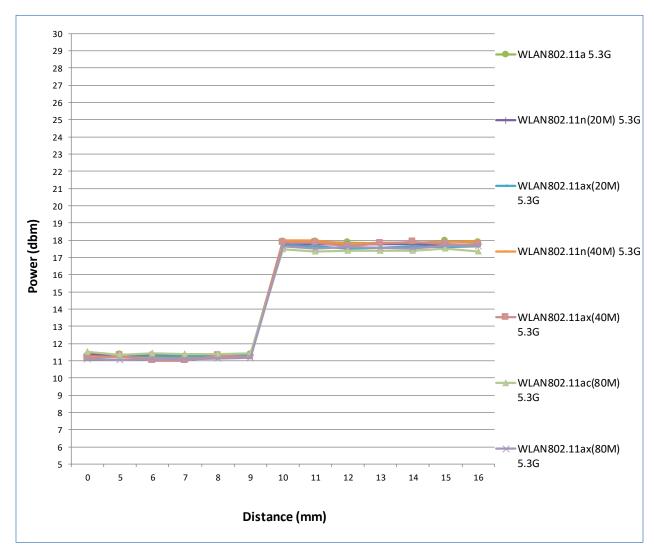
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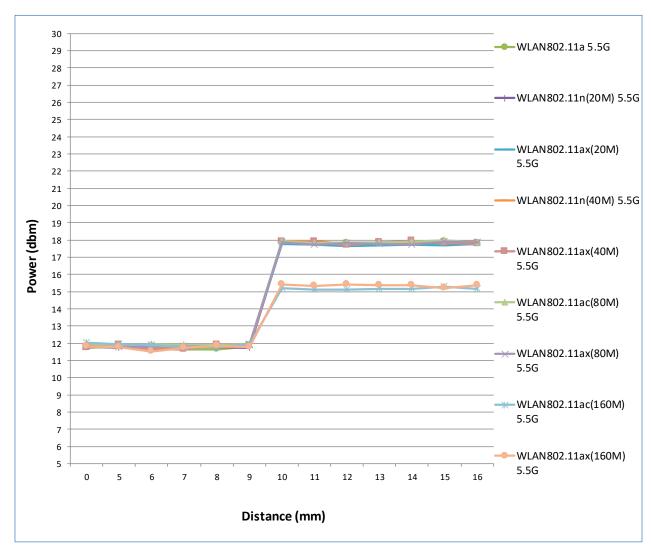
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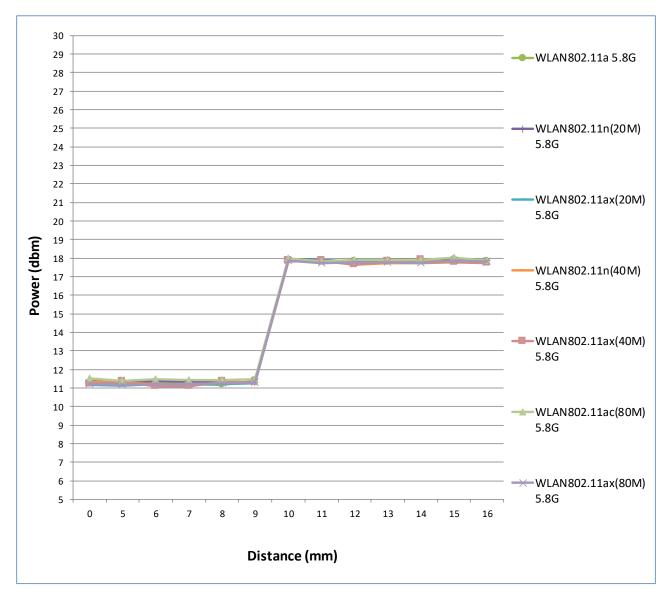
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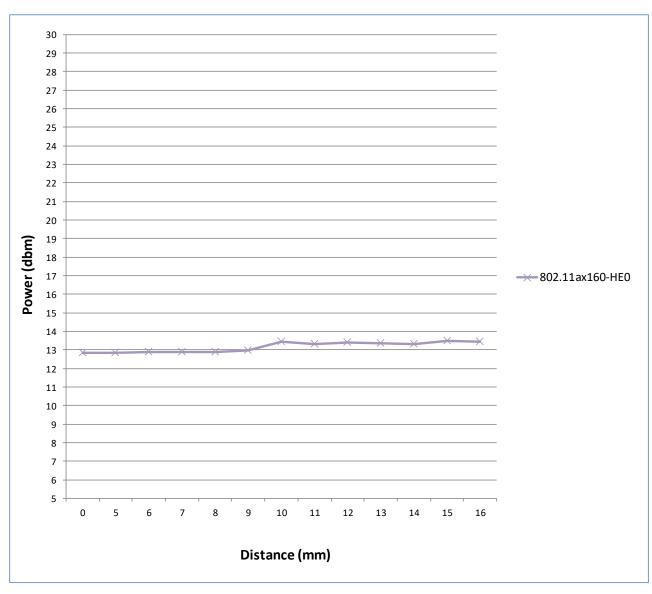


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For bottom surface, the worst trigger distance of proximity sensor is 9mm, and we test bottom surface SAR in 8mm with full power and 0mm with reduced power.

Note:

- The triggering variations and hysteresis effect has been evaluated separately according to the tissue-equivalent medium required for each frequency band, and sensor triggering does not change with different tissue-equivalent media.
- Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

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1.7.6 Operation description for P-sensor

Power Reduction Design Specification (for P-sensor)

The mechanism of power reduction is used for WLAN. The reduced power for each technology/band is defined in Table1-1. With P-sensor mechanism, please refer to WLAN reduced power table in section 1.3 to be the WLAN default power when P-sensor failure or malfunction.

Table1-1: The power reduction scenario table

Transmission mode	Band	Power Reduction
Body	WLAN	YES

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1.8 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.
- The interpolation of all measured values from the measurement grid to the highresolution 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 interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is

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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.

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1.9 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:

1.9.1 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 (δ T / δt) 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:

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

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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%.
- 4. Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about ±10% (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is ±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].



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1.9.2 Calibration with Analytical Fields

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

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

- 1. The setup must enable accurate determination of the incident power.
- 2. The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- 3. Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

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- (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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1.10 SAR System Description and Setup

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

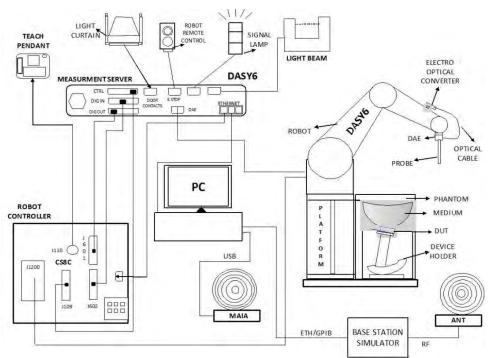


Fig. a A block diagram of the SAR measurement system

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- 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.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such

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as signal filtering, control of the robot operation and fast movement interrupts.

- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows 10 and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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1.10.1 Power density measurement system

DASY6 system

Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.

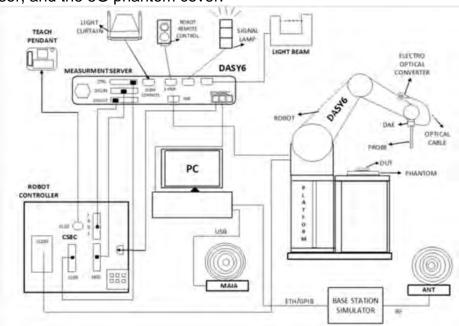


Fig-2.1 SPEAG DASY6 system

EUmmWVx probe

The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consist of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

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	Two dipoles optimally arranged to obtain pseudovector information. Minimum 3 measurements/point, 120° rotated around probe axis. Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.
Frequency Range	750 MHz – 110 GHz
Dynamic Range	< 20 V/m - 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: encapsulation 8 mm (internal sensor < 1mm) Distance from probe tip to dipole centers: < 2 mm. Sensor displacement to probe's calibration point: < 0.3 mm
Applications sensor 1,5mm calibrated device	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space).Power density, H-field and far-field analysis using total field reconstruction (cDASY6 5G module required)
Compatibility	cDASY6 + 5G-Module SW1.0 and higher

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1.10.2 SAR System Performance Check Results

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% (according to KDB865664D01) from the target SAR values.

These tests were done at 2450/5250/5600/5750/6500/7000 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. 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.

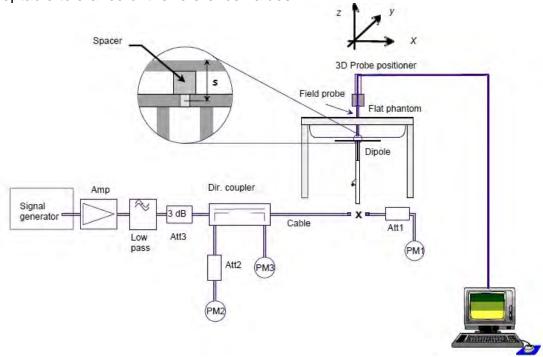


Fig. b The block diagram of system verification

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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	13.50	54	0.19%	Mar. 07, 2022
Validation Kit	S/N		uency Hz)	1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
		5250	Head	81	8.17	81.7	0.86%	Mar. 08, 2022
D5GHzV2	1023	5250	Head	81	8.15	81.5	0.62%	Mar. 09, 2022
DOGITZVZ	1023	5600	Head	84.4	8.19	81.9	-2.96%	Mar. 10, 2022
		5750	Head	81	8.21	82.1	1.36%	Mar. 11, 2022
D6.5GHzV2	1006	6500	Head	291	31.30	313	7.56%	Mar. 12, 2022
D7GHzV2	1007	7000	Head	275	28.40	284	3.27%	Mar. 12, 2022

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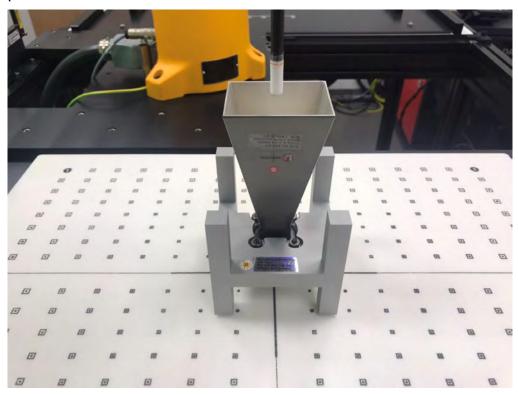


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Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



System Verification Setup Photo

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PD System Verification Results

The system was verified to be within ±0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency (GHz)	PD Verification Source	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm^2 (W/m^2)	Target 4cm^2 (W/m^2)	Deviation (dB)	Date
10G	10G	9399	877	10	86.1	45.5	51.7	-0.55	Mar. 14, 2022

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1.10.3 SAR Tissue Verification

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 Frequency (MHz)	Target Dielectric Constant, Er	Target Conductivity, σ (S/m)	Measured Dielectric Constant, Er	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Ambient temprature	liquid tempature	Use Equipment	
		2412	39.268	1.766	38.777	1.747	-1.25%	-1.09%				
		2437	39.223	1.788	38.745	1.769	-1.22%	-1.09%				
	Mar. 07, 2022	2450	39.200	1.800	38.710	1.781	-1.25%	-1.06%	22.5	22.6		
		2462	39.185	1.813	38.695	1.794	-1.25%	-1.05%				
		2480	39.162	1.833	38.676	1.812	-1.24%	-1.13%				
	Mar. 08, 2022	5210	35.974	4.665	35.618	4.626	-0.99%	-0.84%	22.4	22.9		
	IVIAT . U6, 2U22	5250	35.929	4.706	35.573	4.667	-0.99%	-0.83%	22.4	22.9		
		5250	35.929	4.706	35.569	4.670	-1.00%	-0.77%				
	M 00 2022	5270	35.906	4.727	35.532	4.688	-1.04%	-0.82%	22.5	22.7		
	Mar. 09, 2022	5290	35.883	4.747	35.510	4.711	-1.04%	-0.76%	22.5	22.7		
		5310	35.860	4.768	35.491	4.731	-1.03%	-0.77%				
		5530	35.609	4.993	35.245	4.953	-1.02%	-0.81%			7	
		5570	35.563	5.034	35.193	4.994	-1.04%	-0.80%			SAR 3	
Head	Mar. 10, 2022	5600	35.500	5.070	35.167	5.027	-0.94%	-0.85%	22.5	22.9	DAE : 877	
		5610	35.517	5.075	35.158	5.034	-1.01%	-0.81%			Probe : 7686	
		5690	35.426	5.157	35.082	5.115	-0.97%	-0.82%				
	Mar 11 2022	5750	35.357	5.219	35.021	5.177	-0.95%	-0.80%	22.4	22.8		
	Mar. 11, 2022	5775	35.329	5.244	34.961	5.203	-1.04%	-0.79%	22.4	22.8		
		6025	35.070	5.510	34.810	5.478	-0.74%	-0.57%				
		6185	34.878	5.698	34.641	5.666	-0.68%	-0.57%				
		6500	34.500	6.070	34.279	6.037	-0.64%	-0.54%	22.6	22.6		
		6505	34.494	6.076	34.270	6.042	-0.65%	-0.56%	22.0	22.0		
	Mar. 12, 2022	6665	34.302	6.261	34.055	6.221	-0.72%	-0.65%				
		6825	34.110	6.447	33.871	6.411	-0.70%	-0.56%				
		6985	33.918	6.633	33.681	6.591	-0.70%	-0.63%	22.6	22.0	1	
		7000	33.900	6.650	33.663	6.608	-0.70%	-0.63%	22.6	22.8		

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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1.11 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 HSL2450/5250/5600/5750/6500/7000 MHz
	Additional CF for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz, Linearity: ± 0.6 dB
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic	10 μW/g to > 100 mW/g
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

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PHANTOM

Model	ELI	
Construction	body-mounted wireless device to 6 GHz. ELI is fully constandard and all known tissured optimized regarding its performant our standard phantom tables. liquid. Reference markings on complete setup, including all	compliance testing of handheld and es in the frequency range of 30 MHz ampatible with the IEC 62209-2 e simulating liquids. ELI has been rance and can be integrated into A cover prevents evaporation of the the phantom allow installation of the predefined phantom positions and ning three points. The phantom is esimetric probes and dipoles.
Shell	2 ± 0.2 mm	The state of the s
Thickness		
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm	THE RESERVE THE SECOND TO THE
	Minor axis: 400 mm	

DEVICE HOLDER

DEVICE HOLDER		
fo Po re ar he	he device holder (Supporter) or Notebook is made by OM (polyoxymethylene esin), which is non-metal and non-conductive. The eight can be adjusted to fit aries kind of notebooks.	Device Holder
	·	

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JOJ Talwari Eta.



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1.12 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter.

Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

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

2. 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).

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Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

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

RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	2	Averaging time (minutes)
	(A) Limits for Oc	cupational/Controlled Expos	ures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/1	4.89/1	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
	(B) Limits for Gener	ral Population/Uncontrolled E	xposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/1	2 19/1	*(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	-30
1500-100,000		13	1.0	30

Table. RF exposure limits

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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 and IEC/IEEE 62209-1528:2020:

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

2.2 Summary of SAR Results

Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Distance
Mode	Position	(mm)	СН	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Plot page
	Bottom Surface	8	1	2412	18.00	17.91	1.010	102.09%	0.727	0.750	
	Bottom Surface	8	6	2437	18.00	17.97	1.010	100.69%	0.790	0.803	98
WLAN 802.11b	Bottom Surface	8	11	2462	18.00	17.93	1.010	101.62%	0.754	0.774	-
	Bottom Surface	0	1	2412	14.50	14.42	1.010	101.86%	0.755	0.777	-
	Bottom Surface	0	6	2437	14.50	14.46	1.010	100.93%	0.746	0.760	-
	Bottom Surface	0	11	2462	14.50	14.47	1.010	100.69%	0.785	0.798	99
ain Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Plot page
		()		(**** ==_/	Tolerance (dBm)	(dBm)			Measured	Reported	
WLAN 802.11ac (80M) 5.2G	Bottom Surface	8	42	5210	18.00	17.96	1.020	100.93%	1.140	1.174	100
Repeat	Bottom Surface	8	42	5210	18.00	17.96	1.020	100.93%	1.080	1.112	-
WLAN 802.11ac (160M) 5.2G	Bottom Surface	0	50	5250	11.50	11.46	1.012	100.93%	0.912	0.931	101
lain											
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	- Plot page
		(mm)		(MHZ)	Tolerance (dBm)	(dBm)	scaing	scaling	Measured	Reported	
WLAN 802.11n (40M)	Bottom Surface	8	54	5270	18.00	17.98	1.022	100.46%	1.040	1.068	102
5.3G	Bottom Surface	8	62	5310	17.00	16.92	1.022	101.86%	0.988	1.029	-
WLAN 802.11ac (80M) 5.3G	Bottom Surface	0	58	5290	11.50	11.46	1.020	100.93%	0.901	0.928	103
Repeat	Bottom Surface	8	54	5270	18.00	17.98	1.022	100.46%	0.981	1.007	-
fain .			•							•	
Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
Wodo	1 0010011	(mm)	0.1	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	1 lot page
WLAN 802.11ac	Bottom Surface	8	106	5530	18.00	17.87	1.020	103.04%	1.010	1.062	
(M08)	Bottom Surface	8	122	5610	18.00	17.93	1.020	101.62%	1.020	1.057	-
5.6G	Bottom Surface	8	138	5690	18.00	17.96	1.020	100.93%	1.110	1.143	104
WLAN 802.11ac (160M) 5.6G	Bottom Surface	0	114	5570	12.00	11.98	1.012	100.46%	0.908	0.923	105
Repeat	Bottom Surface	8	138	5690	18.00	17.96	1.020	100.93%	1.060	1.091	
fain											•
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Plot page
		, ,		,	Tolerance (dBm)	(dBm)			Measured	Reported	
WLAN 802.11ac (80M)	Bottom Surface	8	155	5775	18.00	17.98	1.020	100.46%	1.150	1.178	106
5.8G	Bottom Surface	0	155	5775	11.50	11.49	1.020	100.23%	0.771	0.788	107
Repeat	Bottom Surface	8	155	5775	18.00	17.98	1.020	100.46%	1.120	1.148	-

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

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Aux											
	Decision	Distance	QU.	Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	R over 1g (W/kg)	Distance
Mode	Position	(mm)	CH	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	Plot page
	Bottom Surface	8	1	2412	18.00	17.90	1.010	102.33%	0.311	0.321	
	Bottom Surface	8	6	2437	18.00	17.96	1.010	100.93%	0.340	0.347	108
WLAN 802.11b	Bottom Surface	8	11	2462	18.00	17.91	1.010	102.09%	0.326	0.336	
WESTITOOE.110	Bottom Surface	0	1	2412	14.00	13.91	1.010	102.09%	0.921	0.950	
	Bottom Surface	0	6	2437	14.00	13.97	1.010	100.69%	0.949	0.965	109
	Bottom Surface	0	11	2462	14.00	13.95	1.010	101.16%	0.902	0.922	
Repeat Aux	Bottom Surface	0	6	2437	14.00	13.97	1.010	100.69%	0.912	0.928	
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	Reported	- PKot page
Bluetooth	Bottom Surface	0	78	2480	10.50	9.08	1.297	138.68%	0.235	0.423	110
Aux	Dottorii Suriace	V	70	2400	10.50	3.00	1.201	130.0076	0.255	0.425	110
Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power		Averaged SAR over 1g (W/kg)	
		(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Plot page
WLAN 802.11ac (80M) 5.2G	Bottom Surface	8	42	5210	18.00	17.98	1.020	100.46%	1.090	1.117	111
Repeat	Bottom Surface	8	42	5210	18.00	17.98	1.020	100.46%	1.020	1.045	-
WLAN 802.11ac (160M) 5.2G	Bottom Surface	0	50	5250	12.00	11.96	1.012	100.93%	0.963	0.984	112
Aux											
Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	R over 1g (W/kg)	Plot page
		(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac (80M) 5.3G	Bottom Surface	8	58	5290	18.00	17.97	1.020	100.69%	0.835	0.858	113
WLAN 802.11ac (80M) 5.3G	Bottom Surface	0	58	5290	12.00	11.94	1.020	101.39%	0.896	0.927	114
Repeat	Bottom Surface	0	58	5290	12.00	11.94	1.020	101.39%	0.869	0.899	
Aux											
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	R over 1g (W/kg)	Plot page
										· ·	
WLAN 802.11ac	Bottom Surface	8	106	5530	18.00	17.91	1.020	102.09%	0.875	0.911	
(M08)	Bottom Surface	8	122	5610	18.00	17.87	1.020	103.04%	0.852	0.895	-
5.6G	Bottom Surface	8	138	5690	18.00	17.98	1.020	100.46%	0.975	0.999	115
WLAN 802.11ac (160M) 5.6G	Bottom Surface	0	114	5570	11.00	10.98	1.012	100.46%	0.941	0.957	116
Repeat	Bottom Surface	8	138	5690	18.00	17.98	1.020	100.46%	0.958	0.982	
Aux Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		R over 1g (W/kg)	- Plot page
MR AN1000 44					Tolerance (dBm)	(dBm)			Measured	Reported	
WLAN 802.11ac (80M)	Bottom Surface	8	155	5775	18.00	17.99	1.020	100.23%	1.130	1.155	117
5.8G	Bottom Surface	0	155	5775	12.00	11.98	1.020	100.46%	0.705	0.722	118
Repeat	Bottom Surface	8	155	5775	18.00	17.99	1.020	100.23%	1.080	1.104	-

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

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WIFI 6E

Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR		Estimated APD mW/cm^2	Plot page
		` '			Tolerance (dBm)	(dBm)			Measured	Reported	(4cm^2)	
U-NII-5 6.2GHz	Bottom Surface	8	15	6025	13.50	13.47	1.012	100.69%	0.347	0.354	0.277	119
802.11ax	Bottom Surface	0	15	6025	13.00	12.98	1.012	100.46%	0.879	0.894	0.609	120
(160M)	Bottom Surface	0	47	6185	13.00	12.97	1.012	100.69%	0.749	0.763	0.514	
Repeat Main	Bottom Surface	0	15	6025	13.00	12.98	1.012	100.46%	0.843	0.857	0.541	-
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR		Estimated APD mW/cm^2	Plot page
U-NII-6 6.5GHz	Bottom Surface	0	111	6505	13.50	13.48	1.012	100.46%	Measured 1.080	Reported	(4cm^2) 0.752	121
802.11ax (160M)												
Repeat Main	Bottom Surface	0	111	6505	13.50	13.48	1.012	100.46%	1.010	1.027	0.721	-
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg)	Estimated APD mW/cm^2 (4cm^2)	Plot page
U-NII-7	Dattom Curloss		442	0000	12.50	12.40	4.042	400 220/				400
6.7GHz 802.11ax	Bottom Surface	0	143	6665 6825	13.50	13.49	1.012	100.23%	1.080	1.095	0.764	122
(160M)	Bottom Surface				13.50	13.46	1.012	100.93%	0.959	0.979	0.701	-
Repeat Main	Bottom Surface	0	143	6665	13.50	13.49	1.012	100.23%	1.020	1.035	0.741	-
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR		Estimated APD mW/cm^2	Plot page
U-NII-8 7.0GHz									Measured	Reported	(4cm^2)	
802.11ax (160M)	Bottom Surface	0	207	6985	13.50	13.46	1.010	100.93%	0.964	0.983	0.75	123
Repeat	Bottom Surface	0	207	6985	13.50	13.46	1.010	100.93%	0.931	0.949	0.731	
Aux												
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	APD mW/cm^2 (4cm^2)	Plot page
U-NII-5 6.2GHz	Bottom Surface	0	15	6025	13.50	13.47	1.012	100.69%	0.695	0.708	0.529	
802.11ax (160M)	Bottom Surface	0	47	6185	13.50	13.48	1.012	100.46%	0.744	0.756	0.567	124
Aux	1			ı								
Mode									Averaged SAR over 1g (W/kg)			
	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power (dRm)	Duty cycle scaling	Power scaling			Estimated APD mW/cm/2	Plot page
	Position		СН		Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)		Power	Averaged SAR Measured	over 1g (W/kg) Reported	Estimated APD	Plot page
U-NII-6 6.5GHz 802.11ax (160M)	Bottom Surface	(mm)	111	(MHz) 6505	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling 1.012	Power scaling	Measured 0.943	Reported 0.965	Estimated APD mW/cm²2 (4cm²2)	Plot page
6.5GHz 802.11ax		(mm)		(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	Power scaling	Measured	Reported	Estimated APD mW/cm ² (4cm ²)	
6.5GHz 802.11ax (160M)	Bottom Surface	(mm)	111	(MHz) 6505 6505 Freq.	Power + Max. Tolerance (dBm) 13.50 13.50 Max. Rated Avg. Power + Max.	Avg. Power (dBm) 13.45 13.45 Measured Avg. Power	scaling 1.012	Power scaling 101.16% 101.16%	Measured 0.943 0.912 Averaged SAR	0.965 0.934 over 1g (W/kg)	Estimated APD mW/cm²2 (4cm²2)	
6.5GHz 802.11ax (160M) Repeat Aux	Bottom Surface Bottom Surface Position	(mm) 0 0 Distance (mm)	111 111 CH	(MHz) 6505 6505 Freq. (MHz)	Power + Max. Tolerance (dBm) 13.50 13.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm) 13.45 13.45 Measured Avg. Power (dBm)	1.012 1.012 Duty cycle scaling	Power scaling 101.16% 101.16% Power scaling	0.943 0.912 Averaged SAR Measured	Reported 0.965 0.934 over 1g (W/kg) Reported	Estimated APD MV:cm*2 (4cm*2) 0.691 0.673 Estimated APD mW:cm*2 (4cm*2)	125 - Plot page
6.5GHz 802.11ax (160M) Repeat	Bottom Surface Bottom Surface	(mm) 0 0 Distance	111	(MHz) 6505 6505 Freq.	Power + Max. Tolerance (dBm) 13.50 13.50 Max. Rated Avg. Power + Max.	Avg. Power (dBm) 13.45 13.45 Measured Avg. Power	1.012 1.012 Duty cycle	Power scaling 101.16% 101.16%	Measured 0.943 0.912 Averaged SAR	0.965 0.934 over 1g (W/kg)	Estimated APD mW/cm²2 (4cm²2) 0.691 0.673 Estimated APD mW/cm²2	125
6.5GHz 802.11ax (160M) Repeat Aux Mode U-NII-7 6.7GHz 802.11ax	Bottom Surface Bottom Surface Position Bottom Surface Bottom Surface Bottom Surface	(mm) 0 Distance (mm) 8 0	111 111 CH 175 143 175	(MHz) 6505 6505 Freq. (MHz) 6825 6665 6825	Power + Max. Tolerance (dBm) 13.50 13.50 Max. Rated Avg., Power + Max. Tolerance (dBm) 13.50 12.50 12.50	Avg. Power (dBm) 13.45 13.45 Measured Avg. Power (dBm) 13.48 12.46 12.45	1.012 1.012 Duty cycle scaling 1.012 1.012 1.012 1.012	Power scaling 101.16% 101.16% Power scaling 100.46% 100.33% 101.16%	0.943 0.912 Averaged SAR Measured 0.436 0.963 0.822	0.965 0.934 over 1g (W/kg) Reported 0.443 0.984 0.841	Estimated APD mW/cm*2 (4cm*2) 0.691 0.673 Estimated APD mW/cm*2 (4cm*2) 0.873 0.732 0.663	125 Plot page
6.5GHz 802.11ax (160M) Repeat Aux Mode U-NII-7 6.7GHz 802.11ax Repeat	Bottom Surface Bottom Surface Position Bottom Surface Bottom Surface	O Distance (mm)	111 111 CH 175 143	(MHz) 6505 6505 Freq. (MHz) 6825 6665	Power + Max. Tolerance (dBm) 13.50 13.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 13.50 13.50	Avg. Power (dBm) 13.45 13.45 Measured Avg. Power (dBm) 13.48 12.46	1.012 1.012 Duty cycle scaling 1.012 1.012 1.012	Power scaling 101.16% 101.16% Power scaling 100.46% 100.93%	0.943 0.912 Averaged SAR Measured 0.436 0.963	0.965 0.934 over 1g (W/kg) Reported 0.443 0.984	Estimated APD mW/cm²2 (4cm²2) 0.691 0.673 Estimated APD mW/cm²2 (4cm²2) 0.389 0.702	125 Plot page
6.5GHz 802.11ax (160M) Repeat Aux Mode U-NII-7 6.7GHz 802.11ax	Bottom Surface Bottom Surface Position Bottom Surface Bottom Surface Bottom Surface	(mm) 0 Distance (mm) 8 0	111 111 CH 175 143 175	(MHz) 6505 6505 Freq. (MHz) 6825 6665 6825	Power + Max. Tolerance (dBm) 13.50 13.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 13.50 12.50 12.50 12.50 Max. Rated Avg. Power + Max.	Avg. Power (dBm) 13.45 13.45 Measured Avg. Power (dBm) 13.48 12.46 12.46 12.46 Measured Avg. Power	1.012 1.012 Duty cycle scaling 1.012 1.012 1.012 1.012	Power scaling 101.16% 101.16% Power scaling 100.46% 100.33% 101.16%	Measured 0.943 0.912 Averaged SAR Measured 0.436 0.963 0.822 0.928 Averaged SAR	Reported 0.965 0.934 over 1g (W/kg) Reported 0.443 0.984 0.841 0.948 over 1g (W/kg)	Estimated APD mWcm*2 (4cm*2) 0.691 0.673 Estimated APD mWcm*2 (4cm*2) 0.389 0.702 0.663 0.685 Estimated APD mWcm*2 0.702 0.685	125 Plot page
6.5GHz 802.11ax (160M) Repeat Atax Mode U-NII-7 6.7GHz 802.11ax Repeat Aux Mode	Bottom Surface Bottom Surface Position Bottom Surface Bottom Surface Bottom Surface Bottom Surface Bottom Surface	O Distance (mm) 8 0 0 Distance (mm) Distance O Distance O Distance	111 111 111 CH 175 143 175 143	(MHz) 6505 6505 Freq. (MHz) 6825 6665 6825 6665	Power + Max. Tolerance (dBm) 13.50 13.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 13.50 12.50 12.50 Max. Rated Avg. Power + Max. Rated Avg.	Avg. Power (dBm) 13.45 13.45 Measured Avg. Power (dBm) 13.48 12.46 12.46 Measured Measured	1.012 1.012 Duty cycle scaling 1.012 1.012 1.012 1.012 1.012 Duty cycle scaling	Power scaling 101.16% 101.16% Power scaling 100.46% 100.93% 101.16% Power	Measured 0.943 0.912 Averaged SAR Measured 0.436 0.963 0.822 0.928	Reported 0.965 0.934 over 1g (W/kg) Reported 0.443 0.984 0.841 0.948	Estimated APD mWicm*2 (4cm*2) 0.691 0.673 Estimated APD mWicm*2 (4cm*2) 0.673 Estimated APD 0.673 Estimated APD 0.673 Estimated APD 0.685 0.685	Plot page 126 127
6.5GHz 802.11ax (160M) Repeat Aux Mode U-NB-7 6.7GHz 802.11ax Repeat Aux Mode	Bottom Surface Bottom Surface Position Bottom Surface Bottom Surface Bottom Surface Bottom Surface Bottom Surface	O Distance (mm)	111 111 111 CH 175 143 175 143	(MHz) 6505 6505 Freq. (MHz) 6825 6665 6825 6665	Power + Max. Tolerance (dBm) 13.50 13.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 13.50 12.50 12.50 12.50 Max. Rated Avg. Power + Max.	Avg. Power (dBm) 13.45 13.45 Measured Avg. Power (dBm) 13.48 12.46 12.46 12.46 Measured Avg. Power	1.012 1.012 Duty cycle scaling 1.012 1.012 1.012 1.012 1.012 Duty cycle scaling	Power scaling 101.16% 101.16% Power scaling 100.46% 100.93% 101.16% Power	Measured 0.943 0.912 Averaged SAR Measured 0.436 0.963 0.822 0.928 Averaged SAR	Reported 0.965 0.934 over 1g (W/kg) Reported 0.443 0.984 0.841 0.948 over 1g (W/kg)	Estimated APD mWcm*2 (4cm*2) 0.691 0.673 Estimated APD mWcm*2 (4cm*2) 0.389 0.702 0.663 0.685 Estimated APD mWcm*2 0.702 0.685	Plot page 126 127

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

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2.3 Summary of PD Results

Main

					Max. Rated Avg.	Measured				PD result(4cm^2)				
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	Measured Total psPD (mW/cm^2)	Reported Total psPD (mW/cm^2)	Measured Normal psPD (mW/cm^2)	Reported Normal psPD (mW/cm^2)	Plot page
WLAN 6E 802.11ax(160M) U-NII-5	Bottom Surface	2	15	6025	13.00	12.98	100.46%	1.012	1.55	0.429	0.676	0.390	0.615	129
WLAN 6E 802.11ax(160M) U-NII-5	Bottom Surface	2	47	6185	13.00	12.97	100.69%	1.012	1.55	0.236	0.373	0.220	0.347	130
WLAN 6E 802.11ax(160M) U-NII-6	Bottom Surface	2	111	6505	13.50	13.48	100.46%	1.012	1.55	0.481	0.758	0.448	0.706	131
WLAN 6E 802.11ax(160M) U-NII-7	Bottom Surface	2	143	6665	13.50	13.49	100.23%	1.012	1.55	0.537	0.844	0.508	0.799	132
WLAN 6E 802.11ax(160M) U-NII-8	Bottom Surface	2	207	6985	13.50	13.46	100.93%	1.012	1.55	0.511	0.809	0.479	0.758	133

Aux

		Distance (mm)			Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured				PD result(4cm^2)				
Mode	Position		СН	Freq. (MHz)		Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	Measured Total psPD (mW/cm^2)	Reported Total psPD (mW/cm^2)	Measured Normal psPD (mW/cm^2)	Reported Normal psPD (mW/cm^2)	Plot page
WLAN 6E 802.11ax(160M) U-NII-5	Bottom Surface	2	15	6025	13.50	13.47	100.69%	1.012	1.55	0.515	0.813	0.483	0.763	134
WLAN 6E 802.11ax(160M) U-NII-5	Bottom Surface	2	47	6185	13.50	13.48	100.46%	1.012	1.55	0.618	0.974	0.599	0.944	135
WLAN 6E 802.11ax(160M) U-NII-6	Bottom Surface	2	111	6505	13.50	13.45	101.16%	1.012	1.55	0.629	0.998	0.565	0.897	136
WLAN 6E 802.11ax(160M) U-NII-7	Bottom Surface	2	143	6665	12.50	12.46	100.93%	1.012	1.55	0.549	0.869	0.540	0.855	137
WLAN 6E 802.11ax(160M) U-NII-8	Bottom Surface	2	207	6985	13.50	13.47	100.69%	1.012	1.55	0.623	0.984	0.578	0.913	138

Note:

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

Reported SAR = measured SAR * (scaling)

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

2.4 Reporting statements of conformity

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

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WLAN 2.4GHz Main + WLAN 2.4GHz Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux	Yes
WLAN 2.4GHz Main + BT Aux	Yes
WLAN 5GHz Main + BT Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux	Yes
WLAN 6E Main + BT Aux	Yes
WLAN 6E Main + WLAN 6E Aux	Yes
WLAN 6E Main + WLAN 6E Aux + BT Aux	Yes

Note:

- 1. Bluetooth and Aux share the same antenna path, and BT can transmit with Main simultaneously.
- 2. For 2.4/5/6GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with (or less than) that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.

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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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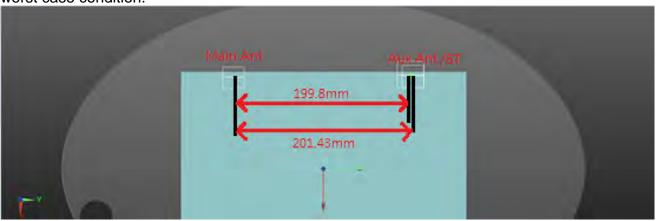
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Simultaneous Transmission Combination

			Report	ed SAR					Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
		2	3	4	5	7	8	9	2+3	4+5	2+7	4+7	4+5+7	7+8	8+9	7+8+9
Exposure Pos	sition	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed							
		1g SAR (W/kg)	1g SAR (W/kg)	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	8	0.803	0.347	1.178	1.155	0.423	0.354	0.443	1.150	2.333	1.226	1.601	2.756	0.777	0.797	1.220
Bottom Surface	0	0.798	0.965	0.931	0.984	0.423	1.098	0.984	1.763	1.915	1.221	1.354	2.338	1.521	2.082	2.505

	Scenario 2&5												
Position	Conditions	Gap	SAR Value	Co	ordinates (m	ım)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR			
r osition	Conditions	(mm)	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	OF LOIX	Test			
Bottom	WLAN 5G Main	8.000	1.178	-105.00	-101.20	0.58	ı	-	-	-			
Surface	WLAN 5G Aux+BT	8.000	1.578	-105.40	98.60	0.46	2.756	199.80	0.023	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.



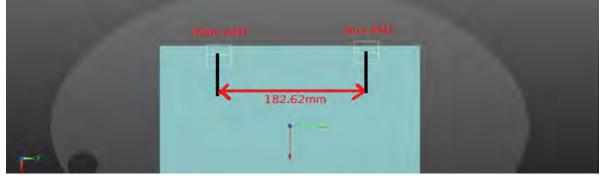
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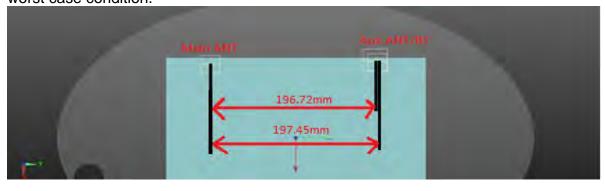
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	Scenario 1												
Position	Conditions	Gap	SAR Value	Co	ordinates (m	nm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR			
	Conditions	(mm)	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	OF LOIX	Test			
Bottom	WLAN 2.4G Main	0.000	0.798	-97.00	-88.60	-3.02	-	-	-	-			
Surface	WLAN 2.4G Aux	0.000	0.965	-99.40	94.00	-2.92	1.763	182.62	0.013	SPLSR ≤ 0.04, Not required			



	Scenario 2&5												
Position	Conditions	Gap	SAR Value	Co	ordinates (m	nm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR			
Position	Conditions	(mm)	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SFLSK	Test			
Bottom	WLAN 5G Main	0.000	0.931	-99.40	-98.00	-2.87	-	-	-	-			
Surface	WLAN 5G Aux+BT	0.000	1.407	-105.40	98.60	0.46	2.338	196.72	0.018	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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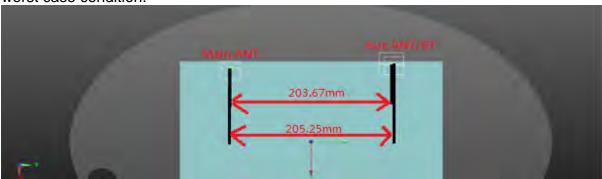
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	Scenario 6&7&8												
Position	Conditions	Gap	SAR Value	Co	ordinates (m	nm)	ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR			
Position	Conditions	(mm)	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	OF LOIX	Test			
Bottom	WLAN 6G Main	0.000	1.098	-100.00	-105.00	0.81	-	-	-	-			
Surface	WLAN 6G Aux+BT	0.000	1.407	-105.40	98.60	0.46	2.505	203.67	0.019	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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4. Instruments List

7. 1113ti ui	nents List				
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E- Field	EX3DV4	7686	Oct.05,2021	Oct.04,2022
OI LAG	Probe	EUmmWV3	9399	Jan.26,2022	Jan.25,2023
		D2450V2	727	Apr.14,2021	Apr.13,2022
	System	D5GHzV2	1023	Jan.27,2022	Jan.26,2023
SPEAG	Validation	D6.5GHzV2	1006	Aug.26,2021	Aug.25,2022
	Dipole	D7GHzV2	1007	Aug.26,2021	Aug.25,2022
		5G-Veri10	1021	Jan.24,2022	Jan.23,2023
SPEAG	Data acquisition Electronics	DAE4	877	Mar.22,2021	Mar.21,2022
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI mmWave	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1001	Jan.26,2022	Jan.25,2023
A mila mt	Dual-directional	772D	MY46151242	Aug.16.2021	Aug.15.2022
Agilent	coupler	778D	MY48220468	Aug.16.2021	Aug.15.2022
Agilent	Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
Agilent	Power Meter	E4417A	MY51410006	Mar.23,2021	Mar.22,2022
Agilont	Power Sensor	E9301H	MY51470001	Mar.23,2021	Mar.22,2022
Agilent	Lower Selisor	EASOIL	MY51470002	Mar.23,2021	Mar.22,2022
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.26,2021	Apr.25,2022
R&S	Power Sensor	NRP18S	101974	Oct.12.2021	Oct.11.2022

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5. Measurements

Date: 2022/3/7

Report No. :ES/2022/20003

WLAN 802.11b_Body_Bottom Surface_CH 6_8mm_Main

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium parameters used: f = 2437 MHz; $\sigma = 1.769$ S/m; $\varepsilon_r = 38.745$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2021/03/22

· Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 1.504 V/m; Power Drift = -0.09 dB

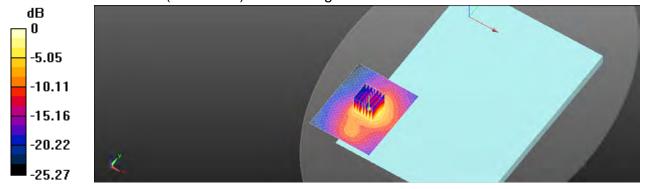
Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.339 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 46.5%

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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Date: 2022/3/7

Report No. :ES/2022/20003

WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Main

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.01

Medium parameters used: f = 2462 MHz; $\sigma = 1.794 \text{ S/m}$; $\varepsilon_r = 38.695$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 1.168 V/m; Power Drift = 0.03 dB

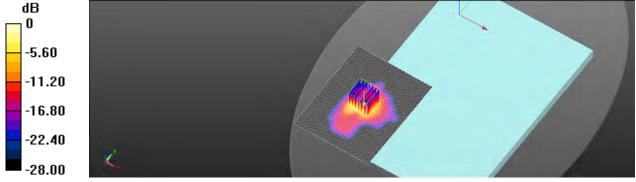
Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.299 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.5%

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



0 dB = 1.30 W/kg = 1.14 dBW/kg

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Date: 2022/3/8

Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_8mm_Main

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5210 MHz; σ = 4.626 S/m; ϵ_r = 35.618; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); 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 = 2.809 V/m; Power Drift = 0.17 dB

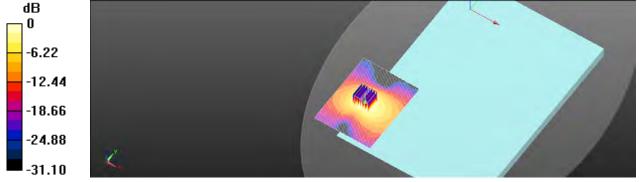
Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.441 W/kg

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 2.09 W/kg



0 dB = 2.09 W/kg = 3.21 dBW/kg

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Date: 2022/3/8

Report No. :ES/2022/20003

WLAN 802.11ac(160M) 5.2G Body Bottom Surface CH 50 0mm Main

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.012

Medium parameters used: f = 5250 MHz; $\sigma = 4.667 \text{ S/m}$; $\varepsilon_r = 35.573$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.86 W/kg

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

Reference Value = 4.689 V/m; Power Drift = 0.15 dB

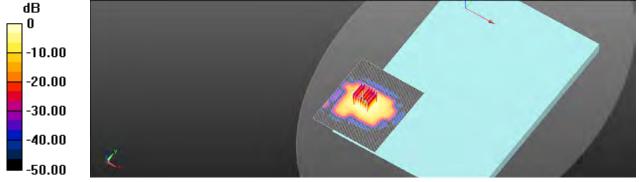
Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 0.912 W/kg; SAR(10 g) = 0.333 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.8%

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



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

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Date: 2022/3/9

Report No. :ES/2022/20003

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_8mm_Main

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:1.022

Medium parameters used: f = 5270 MHz; $\sigma = 4.688 \text{ S/m}$; $\varepsilon_r = 35.532$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 3.196 V/m; Power Drift = 0.08 dB

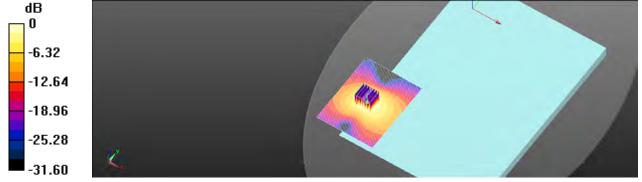
Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.405 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

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



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

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Date: 2022/3/9

Report No. :ES/2022/20003

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

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5290 MHz; $\sigma = 4.711 \text{ S/m}$; $\varepsilon_r = 35.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); 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 = 1.186 V/m; Power Drift = 0.07 dB

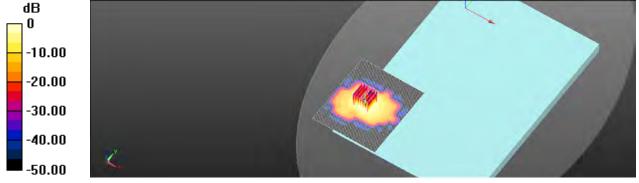
Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 0.901 W/kg; SAR(10 g) = 0.322 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

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

Maximum value of SAR (measured) = 1.62 W/kg



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

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Date: 2022/3/10

Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.6G Body Bottom Surface CH 138 8mm Main

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5690 MHz; $\sigma = 5.115 \text{ S/m}$; $\varepsilon_r = 35.082$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 2.09 W/kg

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

Reference Value = 3.681 V/m; Power Drift = 0.15 dB

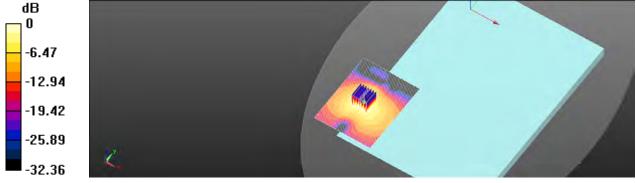
Peak SAR (extrapolated) = 4.15 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.414 W/kg

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

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

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



0 dB = 2.11 W/kg = 3.23 dBW/kg

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Date: 2022/3/10

Report No. :ES/2022/20003

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_0mm_Main

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.012

Medium parameters used: f = 5570 MHz; $\sigma = 4.994 \text{ S/m}$; $\varepsilon_r = 35.193$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 1.193 V/m; Power Drift = 0.13 dB

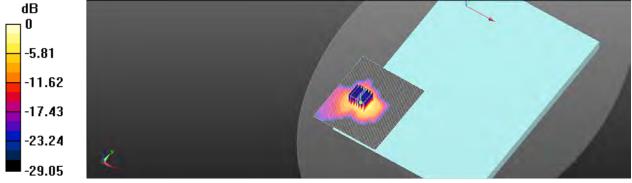
Peak SAR (extrapolated) = 3.53 W/kg

SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.325 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.2%

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



0 dB = 1.79 W/kg = 2.53 dBW/kg

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Date: 2022/3/11

Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_8mm_Main

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5775 MHz; $\sigma = 5.203$ S/m; $\varepsilon_r = 34.961$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 2.24 W/kg

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

Reference Value = 4.048 V/m; Power Drift = 0.08 dB

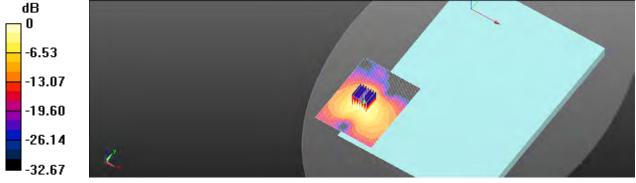
Peak SAR (extrapolated) = 4.35 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.422 W/kg

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

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



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

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Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5775 MHz; σ = 5.203 S/m; ϵ_r = 34.961; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.54 W/kg

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

Reference Value = 1.136 V/m; Power Drift = 0.05 dB

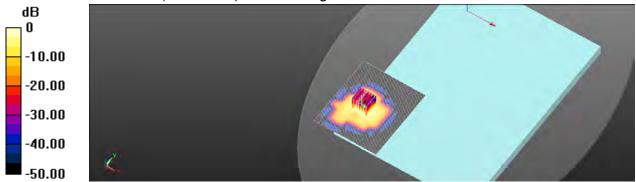
Peak SAR (extrapolated) = 2.98 W/kg

SAR(1 g) = 0.771 W/kg; SAR(10 g) = 0.255 W/kg

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

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

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



0 dB = 1.45 W/kg = 1.62 dBW/kg

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Date: 2022/3/7

Report No. :ES/2022/20003

WLAN 802.11b Body Bottom Surface CH 6 8mm Aux

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium parameters used: f = 2437 MHz; $\sigma = 1.769$ S/m; $\varepsilon_r = 38.745$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.537 W/kg

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

Reference Value = 0.6912 V/m; Power Drift = 0.06 dB

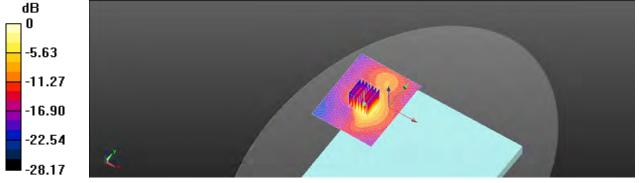
Peak SAR (extrapolated) = 0.754 W/kg

SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.144 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 47.1%

Maximum value of SAR (measured) = 0.545 W/kg



0 dB = 0.545 W/kg = -2.64 dBW/kg

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Date: 2022/3/7

Report No. :ES/2022/20003

WLAN 802.11b Body Bottom Surface CH 6 0mm Aux

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium parameters used: f = 2437 MHz; $\sigma = 1.769$ S/m; $\varepsilon_r = 38.745$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 1.208 V/m; Power Drift = 0.16 dB

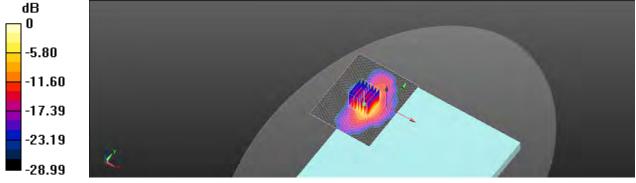
Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 0.949 W/kg; SAR(10 g) = 0.340 W/kg

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 42.6%

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



0 dB = 1.68 W/kg = 2.26 dBW/kg

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Report No. :ES/2022/20003

Bluetooth(GFSK)_Body_Bottom Surface_CH 78_0mm_Aux

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.297

Medium parameters used: f = 2480 MHz; $\sigma = 1.812 \text{ S/m}$; $\varepsilon_r = 38.676$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2021/03/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.423 W/kg

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

Reference Value = 1.341 V/m; Power Drift = 0.13 dB

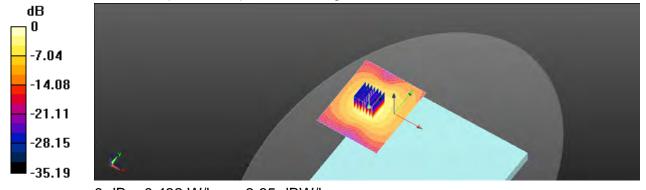
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.091 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.2%

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



0 dB = 0.432 W/kg = -3.65 dBW/kg

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Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_8mm_Aux

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5210 MHz; $\sigma = 4.626$ S/m; $\varepsilon_r = 35.618$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 1.883 V/m; Power Drift = -0.09 dB

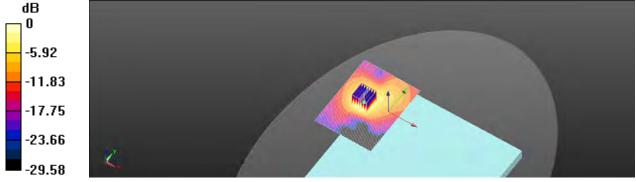
Peak SAR (extrapolated) = 4.14 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.382 W/kg

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

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

Maximum value of SAR (measured) = 2.23 W/kg



0 dB = 2.23 W/kg = 3.47 dBW/kg

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WLAN 802.11ac(160M) 5.2G Body Bottom Surface CH 50 0mm Aux

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.012

Medium parameters used: f = 5250 MHz; $\sigma = 4.667 \text{ S/m}$; $\varepsilon_r = 35.573$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 0.2821 V/m; Power Drift = 0.13 dB

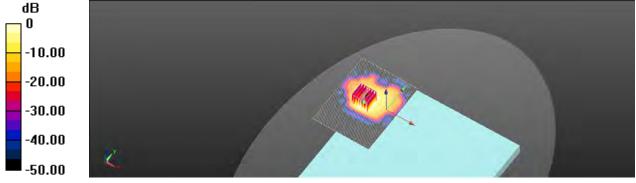
Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.289 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 1.93 W/kg



0 dB = 1.93 W/kg = 2.85 dBW/kg

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Date: 2022/3/9

Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_8mm_Aux

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5290 MHz; $\sigma = 4.711 \text{ S/m}$; $\epsilon_r = 35.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 1.303 V/m; Power Drift = -0.18 dB

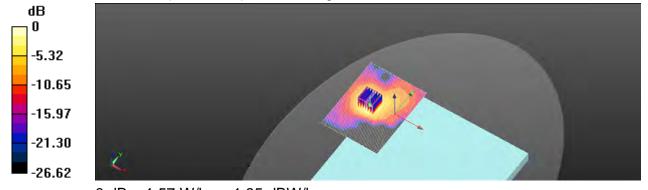
Peak SAR (extrapolated) = 3.03 W/kg

SAR(1 g) = 0.835 W/kg; SAR(10 g) = 0.301 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg = 1.95 dBW/kg

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Date: 2022/3/9

Report No. :ES/2022/20003

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

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5290 MHz; $\sigma = 4.711 \text{ S/m}$; $\varepsilon_r = 35.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 1.164 V/m; Power Drift = 0.08 dB

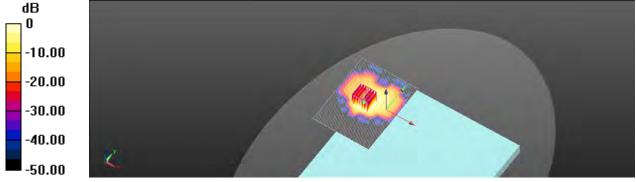
Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.896 W/kg; SAR(10 g) = 0.277 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.9%

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



0 dB = 1.72 W/kg = 2.34 dBW/kg

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Date: 2022/3/10

Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_8mm_Aux

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5690 MHz; $\sigma = 5.115 \text{ S/m}$; $\varepsilon_r = 35.082$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.80 W/kg

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

Reference Value = 2.676 V/m; Power Drift = 0.07 dB

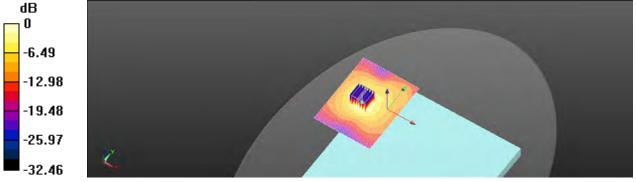
Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.374 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

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



0 dB = 1.84 W/kg = 2.66 dBW/kg

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Date: 2022/3/10

Report No. :ES/2022/20003

WLAN 802.11ac(160M) 5.6G Body Bottom Surface CH 114 0mm Aux

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.012

Medium parameters used: f = 5570 MHz; $\sigma = 4.994$ S/m; $\varepsilon_r = 35.193$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 1.224 V/m; Power Drift = 0.15 dB

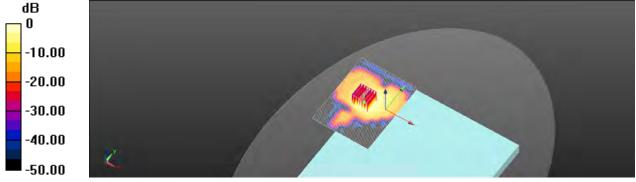
Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 0.941 W/kg; SAR(10 g) = 0.321 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.4%

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



0 dB = 1.79 W/kg = 2.53 dBW/kg

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Date: 2022/3/11

Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_8mm_Aux

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5775 MHz; σ = 5.203 S/m; ϵ_r = 34.961; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); 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 = 1.401 V/m; Power Drift = 0.03 dB

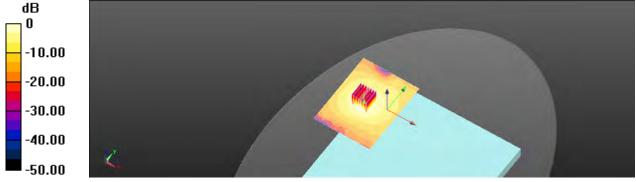
Peak SAR (extrapolated) = 4.38 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.440 W/kg

Smallest distance from peaks to all points 3 dB below = 13 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

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



0 dB = 2.08 W/kg = 3.17 dBW/kg

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Date: 2022/3/11

Report No. :ES/2022/20003

WLAN 802.11ac(80M) 5.8G Body Bottom Surface CH 155 0mm Aux

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.02

Medium parameters used: f = 5775 MHz; $\sigma = 5.203$ S/m; $\varepsilon_r = 34.961$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2021/03/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 0.5815 V/m; Power Drift = 0.04 dB

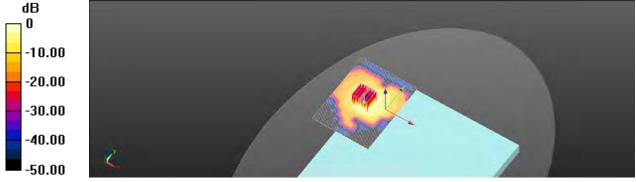
Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.250 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.5%

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



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

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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-5, IEEE 802.11ax (160MHz), Channel 15 (6025.0 MHz)_Main

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 8.00	U-NII-5	WLAN,10755-AAC	6025.0,15	6.2	5.478	34.81

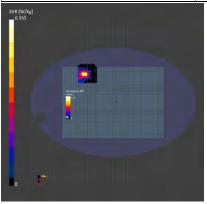
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) – 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup		
	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 × 22.0 × 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

easurement results				
	Area Scan	Zoom Scan		
Date	2022-03-12, 07:20	2022-03-12, 07:46		
psSAR1g [W/Kg]	0.327	0.347		
psSAR10g [W/Kg]	0.118	0.122		
psPDab (1.0cm2, sq) [W/m2]		3.47		
psPDab (4.0cm2, sq) [W/m2]		2.77		
Power Drift [dB]	0.00	-0.15		
Power Scaling	Disabled	Disabled		
Scaling Factor [dB]				
TSL Correction	No correction	No correction		
M2/M1 [%]		57.8		
Dist 3dB Peak [mm]		8.8		



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-5, IEEE 802.11ax (160MHz), Channel 15 (6025.0 MHz)_Main

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 0.00	U-NII-5	WLAN,10755-AAC	6025.0,15	6.2	5.478	34.81

Hardware Setup

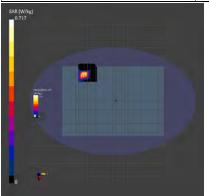
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

Scans Setup		
	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

Measurement Nesurts		
	Area Scan	Zoom Scan
Date	2022-03-12, 00:52	2022-03-12, 01:13
psSAR1g [W/Kg]	0.783	0.879
psSAR10g [W/Kg]	0.269	0.257
psPDab (1.0cm2, sq) [W/m2]		8.79
psPDab (4.0cm2, sq) [W/m2]		6.09
Power Drift [dB]	-0.03	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.6
Dist 3dB Peak [mm]		5.8



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-6, IEEE 802.11ax (160MHz), Channel 111 (6505.0 MHz)_Main

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 0.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	6.2	6.042	34.27

Hardware Setup

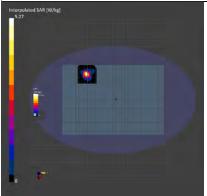
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

cans Setup					
	Area Scan	Zoom Scan			
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0			
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4			
Sensor Surface [mm]	3.0	1.4			
Graded Grid	Yes	Yes			
Grading Ratio	1.5	1.4			
MAIA	N/A	N/A			
Surface Detection	All points	All points			
Scan Method	Measured	Measured			

Measurement Results

reasurement nesures				
	Area Scan	Zoom Scan		
Date	2022-03-12, 01:32	2022-03-12, 01:53		
psSAR1g [W/Kg]	0.996	1.08		
psSAR10g [W/Kg]	0.312	0.325		
psPDab (1.0cm2, sq) [W/m2]		10.8		
psPDab (4.0cm2, sq) [W/m2]		7.52		
Power Drift [dB]	-0.02	0.08		
Power Scaling	Disabled	Disabled		
Scaling Factor [dB]				
TSL Correction	No correction	No correction		
M2/M1 [%]		50.9		
Dist 3dB Peak [mm]		7.5		



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-7, IEEE 802.11ax (160MHz), Channel 143 (6665.0 MHz)_Main

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 0.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	6.2	6.221	34.055

Hardware Setup

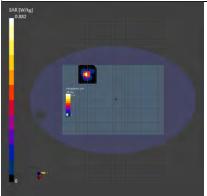
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

cans Setup					
	Area Scan	Zoom Scan			
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0			
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4			
Sensor Surface [mm]	3.0	1.4			
Graded Grid	Yes	Yes			
Grading Ratio	1.5	1.4			
MAIA	N/A	N/A			
Surface Detection	VMS + 6p	VMS + 6p			
Scan Method	Measured	Measured			

Measurement Results

neasurement nesures				
	Area Scan	Zoom Scan		
Date	2022-03-12, 02:24	2022-03-12, 02:39		
psSAR1g [W/Kg]	1.00	1.08		
psSAR10g [W/Kg]	0.317	0.332		
psPDab (1.0cm2, sq) [W/m2]		10.8		
psPDab (4.0cm2, sq) [W/m2]		7.64		
Power Drift [dB]	0.10	-0.05		
Power Scaling	Disabled	Disabled		
Scaling Factor [dB]				
TSL Correction	No correction	No correction		
M2/M1 [%]		50.2		
Dist 3dB Peak [mm]		7.9		



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-8, IEEE 802.11ax (160MHz), Channel 207 (6985.0 MHz)_Main

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 0.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	6.14	6.591	33.681

Hardware Setup

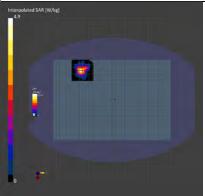
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

cans Setup					
	Area Scan	Zoom Scan			
Grid Extents [mm]	68.0 x 85.0	22.0 × 22.0 × 22.0			
Grid Steps [mm]	8.5 x 8.5	3.2 x 3.2 x 1.2			
Sensor Surface [mm]	3.0	1.4			
Graded Grid	Yes	Yes			
Grading Ratio	1.5	1.2			
MAIA	N/A	N/A			
Surface Detection	VMS + 6p	VMS + 6p			
Scan Method	Measured	Measured			

Measurement Results

Measurement Results		
	Area Scan	Zoom Scan
Date	2022-03-12, 02:57	2022-03-12, 03:16
psSAR1g [W/Kg]	0.970	0.964
psSAR10g [W/Kg]	0.335	0.330
psPDab (1.0cm2, sq) [W/m2]		9.64
psPDab (4.0cm2, sq) [W/m2]		7.50
Power Drift [dB]	-0.06	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.1
Dist 3dB Peak [mm]		8.4



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-5, IEEE 802.11ax (160MHz), Channel 47 (6185.0 MHz)_Aux

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 0.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	6.2	5.666	34.641

Hardware Setup

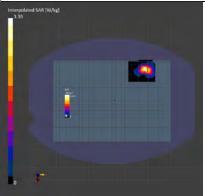
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

cans Setup			
	Area Scan	Zoom Scan	
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0	
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	
Sensor Surface [mm]	3.0	1.4	
Graded Grid	Yes	Yes	
Grading Ratio	1.5	1.4	
MAIA	N/A	N/A	
Surface Detection	VMS + 6p	VMS + 6p	
Scan Method	Measured	Measured	

Measurement Results

measurement Results		
	Area Scan	Zoom Scan
Date	2022-03-12, 03:29	2022-03-12, 04:53
psSAR1g [W/Kg]	0.679	0.744
psSAR10g [W/Kg]	0.248	0.250
psPDab (1.0cm2, sq) [W/m2]		7.44
psPDab (4.0cm2, sq) [W/m2]		5.67
Power Drift [dB]	0.07	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		6.3



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-6, IEEE 802.11ax (160MHz), Channel 111 (6505.0 MHz)_Aux

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section,	rSL Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 0.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	6.2	6.042	34.27

Hardware Setup

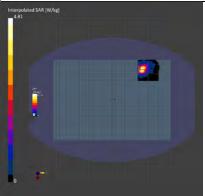
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

cans Setup			
	Area Scan	Zoom Scan	
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0	
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	
Sensor Surface [mm]	3.0	1.4	
Graded Grid	Yes	Yes	
Grading Ratio	1.5	1.4	
MAIA	N/A	N/A	
Surface Detection	VMS + 6p	VMS + 6p	
Scan Method	Measured	Measured	

Measurement Results

Measurement Results		
	Area Scan	Zoom Scan
Date	2022-03-12, 05:11	2022-03-12, 05:36
psSAR1g [W/Kg]	0.836	0.943
psSAR10g [W/Kg]	0.277	0.302
psPDab (1.0cm2, sq) [W/m2]		9.43
psPDab (4.0cm2, sq) [W/m2]		6.91
Power Drift [dB]	-0.01	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		7.0



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-7, IEEE 802.11ax (160MHz), Channel 175 (6825.0 MHz)_Aux

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 8.00	U-NII-7	WLAN, 10755-AAC	6825.0, 175	6.2	6.411	33.871

Hardware Setup

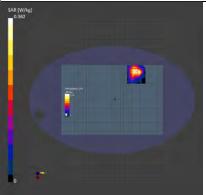
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

cans Setup					
	Area Scan	Zoom Scan			
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0			
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4			
Sensor Surface [mm]	3.0	1.4			
Graded Grid	Yes	Yes			
Grading Ratio	1.5	1.4			
MAIA	N/A	N/A			
Surface Detection	VMS + 6p	VMS + 6p			
Scan Method	Measured	Measured			

Measurement Results

easurement nesures				
	Area Scan	Zoom Scan		
Date	2022-03-12, 07:55	2022-03-12, 08:17		
psSAR1g [W/Kg]	0.437	0.436		
psSAR10g [W/Kg]	0.182	0.175		
psPDab (1.0cm2, sq) [W/m2]		4.36		
psPDab (4.0cm2, sq) [W/m2]		3.89		
Power Drift [dB]	-0.15	-0.11		
Power Scaling	Disabled	Disabled		
Scaling Factor [dB]				
TSL Correction	No correction	No correction		
M2/M1 [%]		51.2		
Dist 3dB Peak [mm]		13.1		



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-7, IEEE 802.11ax (160MHz), Channel 143 (6665.0 MHz)_Aux

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phant	tom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, I	HSL	BOTTOM SURFACE, 0.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	6.2	6.221	34.055

Hardware Setup

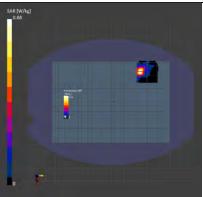
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

cans Setup					
	Area Scan	Zoom Scan			
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0			
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4			
Sensor Surface [mm]	3.0	1.4			
Graded Grid	Yes	Yes			
Grading Ratio	1.5	1.4			
MAIA	N/A	N/A			
Surface Detection	VMS + 6p	VMS + 6p			
Scan Method	Measured	Measured			

Measurement Results

leasurement results				
	Area Scan	Zoom Scan		
Date	2022-03-12, 05:51	2022-03-12, 06:22		
psSAR1g [W/Kg]	0.870	0.963		
psSAR10g [W/Kg]	0.292	0.308		
psPDab (1.0cm2, sq) [W/m2]		9.63		
psPDab (4.0cm2, sq) [W/m2]		7.02		
Power Drift [dB]	0.01	-0.02		
Power Scaling	Disabled	Disabled		
Scaling Factor [dB]				
TSL Correction	No correction	No correction		
M2/M1 [%]		48.6		
Dist 3dB Peak [mm]		7.7		



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Report No. :ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-8, IEEE 802.11ax (160MHz), Channel 207 (6985.0 MHz)_Aux

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BOTTOM SURFACE, 0.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	6.14	6.591	33.681

Hardware Setup

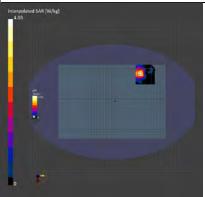
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

cans Setup				
	Area Scan	Zoom Scan		
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0		
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4		
Sensor Surface [mm]	3.0	1.4		
Graded Grid	Yes	Yes		
Grading Ratio	1.5	1.4		
MAIA	N/A	N/A		
Surface Detection	VMS + 6p	VMS + 6p		
Scan Method	Measured	Measured		

Measurement Results

reasurement results				
	Area Scan	Zoom Scan		
Date	2022-03-12, 06:43	2022-03-12, 06:59		
psSAR1g [W/Kg]	0.790	0.814		
psSAR10g [W/Kg]	0.296	0.287		
psPDab (1.0cm2, sq) [W/m2]		8.14		
psPDab (4.0cm2, sq) [W/m2]		6.57		
Power Drift [dB]	0.06	0.05		
Power Scaling	Disabled	Disabled		
Scaling Factor [dB]				
TSL Correction	No correction	No correction		
M2/M1 [%]		47.9		
Dist 3dB Peak [mm]		8.3		



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Report No.: ES/2022/20003 Measurement Report for Device, BOTTOM SURFACE, U-NII-5, IEEE 802.11ax (160MHz), Channel 15 (6025.0 MHz)_Main Device Under Test Properties

Device officer restrioperates			
Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	1.0

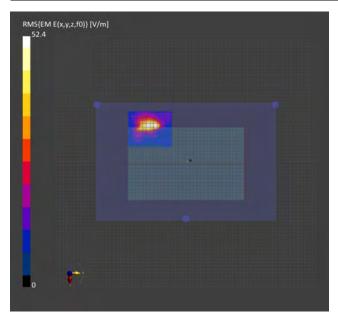
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

Scane Satur

Scans Secup	
Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

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Measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 15:49
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	3.90
psPDtot+ [W/m2]	4.29
psPDmod+ [W/m2]	4.43
Emax [V/m]	52.4
Power Drift [dB]	-0.13



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Report No.: ES/2022/2003 Measurement Report for Device, BOTTOM SURFACE, U-NII-5, IEEE 802.11ax (160MHz), Channel 47 (6185.0 MHz)_Main Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	1.0

Hardware Setur

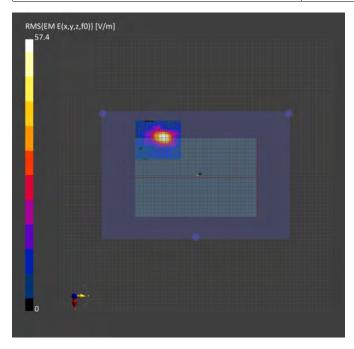
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

Massurament Possilte

measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 14:03
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	2.20
psPDtot+ [W/m2]	2.36
psPDmod+ [W/m2]	3.47
Emax [V/m]	57.4
Power Drift [dB]	-0.12



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Report No.: ES/2022/20003 Measurement Report for Device, BOTTOM SURFACE, U-NII-6, IEEE 802.11ax (160MHz), Channel 111 (6505.0 MHz)_Main **Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	320.0 x 218.0 x 16.0		Laptop

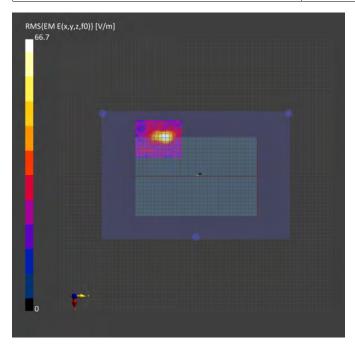
Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	1.0

Phantom Medium		Probe, Calibration Date	DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22	

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 12:58
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	4.48
psPDtot+ [W/m2]	4.81
psPDmod+ [W/m2]	5.78
Emax [V/m]	66.7
Power Drift [dB]	0.18



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Report No.: ES/2022/20003 Measurement Report for Device, BOTTOM SURFACE, U-NII-7, IEEE 802.11ax (160MHz), Channel 143 (6665.0 MHz)_Main **Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

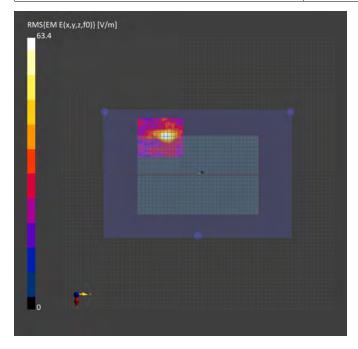
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	1.0

Phantom Medium		Probe, Calibration Date	DAE, Calibration Date	
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22	

Scalls Setup	
Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

Manageramant Daguite

measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 11:15
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	5.08
psPDtot+ [W/m2]	5.37
psPDmod+ [W/m2]	5.89
Emax [V/m]	63.4
Power Drift [dB]	-0.03



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Report No. : ES/2022/20003 Measurement Report for Device, BOTTOM SURFACE, U-NII-8, IEEE 802.11ax (160MHz), Channel 207 (6985.0 MHz)_Main **Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

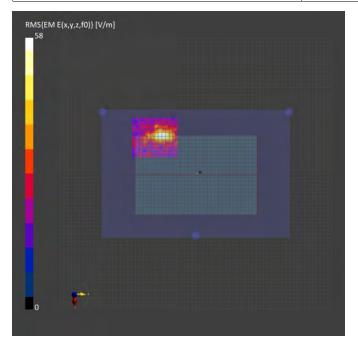
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

Scans Setup					
Scan Type	5G Scan				
Grid Extents [mm]	100.0 x 120.0				
Grid Steps [lambda]	0.0625 x 0.0625				
Sensor Surface [mm]	2.0				
MAIA	N/A				

Mascurament Deculte

measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 09:16
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	4.79
psPDtot+ [W/m2]	5.11
psPDmod+ [W/m2]	5.65
Emax [V/m]	58.0
Power Drift [dB]	0.12



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Report No.: ES/2022/20003 Measurement Report for Device, BOTTOM SURFACE, U-NII-5, IEEE 802.11ax (160MHz), Channel 15 (6025.0 MHz)_Aux Device Under Test Properties

Davide Citati Test Troparties			
Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

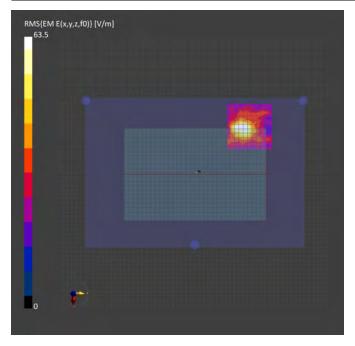
Ph	antom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	Air	BOTTOM SURFACE, 2.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

cans setup					
Scan Type	5G Scan				
Grid Extents [mm]	100.0 x 100.0				
Grid Steps [lambda]	0.0625 x 0.0625				
Sensor Surface [mm]	2.0				
MAIA	N/A				

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Measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 07:44
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	4.83
psPDtot+ [W/m2]	5.15
psPDmod+ [W/m2]	6.58
Emax [V/m]	63.5
Power Drift [dB]	0.13



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Report No. : ES/2022/20003 Measurement Report for Device, BOTTOM SURFACE, U-NII-5, IEEE 802.11ax (160MHz), Channel 47 (6185.0 MHz)_Aux Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	1.0

Hardware Setur

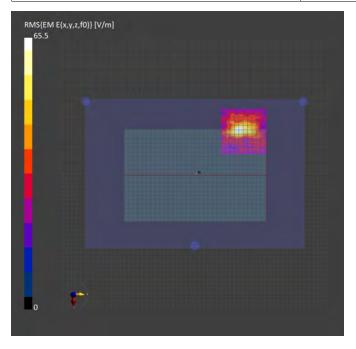
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

Scans Setup

cans setup					
Scan Type	5G Scan				
Grid Extents [mm]	100.0 x 100.0				
Grid Steps [lambda]	0.0625 x 0.0625				
Sensor Surface [mm]	2.0				
MAIA	N/A				

Measurement Results

measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 06:15
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	5.99
psPDtot+ [W/m2]	6.18
psPDmod+ [W/m2]	6.66
Emax [V/m]	65.5
Power Drift [dB]	0.04



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Report No.: ES/2022/20003

Measurement Report for Device, BOTTOM SURFACE, U-NII-6, IEEE 802.11ax (160MH), Channel 111 (6505.0 MHz)_Aux

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	320.0 x 218.0 x 16.0		Laptop

Exposure Conditions

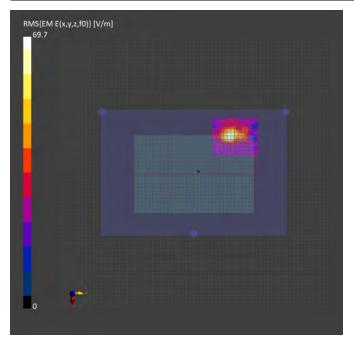
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

Scalls Setup	
Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

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Measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 04:57
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	5.65
psPDtot+ [W/m2]	6.29
psPDmod+ [W/m2]	7.28
Emax [V/m]	69.7
Power Drift [dB]	0.09



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Report No. : ES/2022/20003 Measurement Report for Device, BOTTOM SURFACE, U-NII-7, IEEE 802.11ax (160MHz), Channel 143 (6665.0 MHz)_Aux **Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type		
Device	320.0 x 218.0 x 16.0		Laptop		

Exposure Conditions

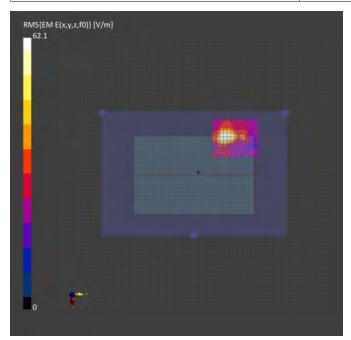
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

Scalls Setup	
Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

Mascurament Deculte

measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 03:56
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	5.40
psPDtot+ [W/m2]	5.49
psPDmod+ [W/m2]	5.96
Emax [V/m]	62.1
Power Drift [dB]	0.01



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Report No.: ES/2022/20003 Measurement Report for Device, BOTTOM SURFACE, U-NII-8, IEEE 802.11ax (160MHz), Channel 207 (6985.0 MHz)_Aux Device Under Test Properties

vice officer rest properties					
Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type		
Device	320.0 x 218.0 x 16.0		Laptop		

Exposure Conditions

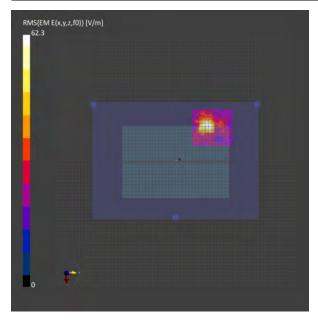
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BOTTOM SURFACE, 2.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

Scalls Setup	
Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

Moneyromant Docults

Measurement Results	
Scan Type	5G Scan
Date	2022-03-15, 02:13
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	5.78
psPDtot+ [W/m2]	6.23
psPDmod+ [W/m2]	6.57
Emax [V/m]	62.3
Power Drift [dB]	-0.09



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6. SAR System Performance Verification

Date: 2022/3/7

Report No. :ES/2022/20003 Dipole 2450 MHz SN:727

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.781 \text{ S/m}$; $\epsilon_r = 38.71$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2021/03/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 26.1 W/kg

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

Reference Value = 103.7 V/m; Power Drift = -0.06 dB

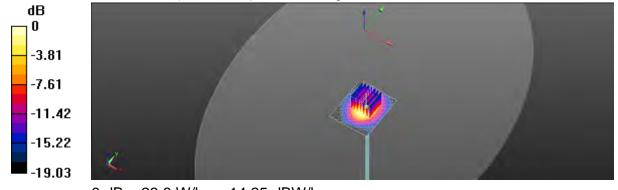
Peak SAR (extrapolated) = 33.3 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.35 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 23.8 W/kg



0 dB = 23.8 W/kg = 14.25 dBW/kg

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Date: 2022/3/8

Report No. :ES/2022/20003 **Dipole 5250 MHz SN:1023**

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

Medium parameters used: f = 5250 MHz; $\sigma = 4.667 \text{ S/m}$; $\varepsilon_r = 35.573$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 64.23 V/m; Power Drift = -0.07 dB

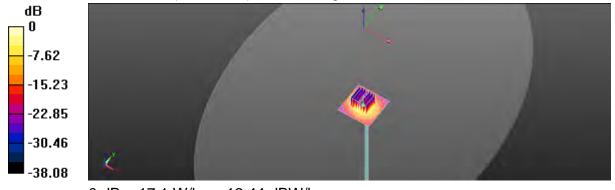
Peak SAR (extrapolated) = 31.0 W/kg

SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

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

Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.44 dBW/kg

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Date: 2022/3/9

Report No. :ES/2022/20003 **Dipole 5250 MHz SN:1023**

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

Medium parameters used: f = 5250 MHz; $\sigma = 4.67$ S/m; $\varepsilon_r = 35.569$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.2 W/kg

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

Reference Value = 59.22 V/m; Power Drift = 0.01 dB

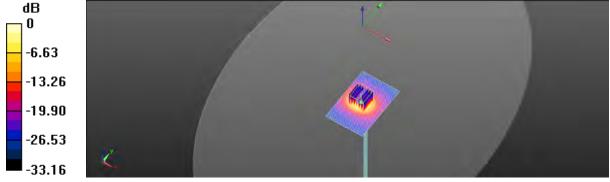
Peak SAR (extrapolated) = 31.1 W/kg

SAR(1 g) = 8.15 W/kg; SAR(10 g) = 2.28 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

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

Maximum value of SAR (measured) = 17.2 W/kg



0 dB = 17.2 W/kg = 12.36 dBW/kg

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Date: 2022/3/10

Report No. :ES/2022/20003 Dipole 5600 MHz_SN:1023

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

Medium parameters used: f = 5600 MHz; σ = 5.027 S/m; ϵ_r = 35.167; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

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

Reference Value = 59.90 V/m; Power Drift = -0.04 dB

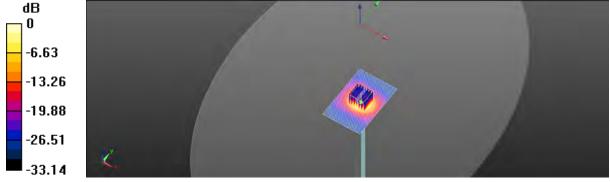
Peak SAR (extrapolated) = 24.6 W/kg

SAR(1 g) = 8.19 W/kg; SAR(10 g) = 2.34 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 18.3 W/kg = 12.62 dBW/kg

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Report No.: ES/2022/20003 Page: 143 of 151

Date: 2022/3/11

Report No. :ES/2022/20003 **Dipole 5750 MHz SN:1023**

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

Medium parameters used: f = 5750 MHz; $\sigma = 5.177 \text{ S/m}$; $\varepsilon_r = 35.021$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm Maximum value of SAR (interpolated) = 18.9 W/kg

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

Reference Value = 62.24 V/m; Power Drift = -0.01 dB

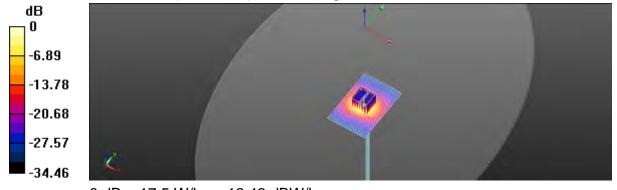
Peak SAR (extrapolated) = 28.3 W/kg

SAR(1 g) = 8.21 W/kg; SAR(10 g) = 2.29 W/kg

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

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

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



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

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Report No. :ES/2022/20003

Measurement Report for Device, FRONT, Validation band, CW, Channel 6500 (6500.0 MHz)

Davisa	Ilndor	Toot	Properties	

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	16.0 x 6.0 x 300.0	SN:1006	Dipole

⊨xposure	Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	Validation band	CW, 0	6500.0, 6500	6.2	6.037	34.279

Hardware Setup

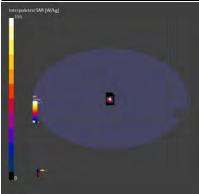
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup

Scalis Setup				
	Area Scan	Zoom Scan		
Grid Extents [mm]	51.0 x 36.0	22.0 x 22.0 x 22.0		
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4		
Sensor Surface [mm]	3.0	1.4		
Graded Grid	Yes	Yes		
Grading Ratio	1.5	1.4		
MAIA	N/A	N/A		
Surface Detection	VMS + 6p	VMS + 6p		
Scan Method	Measured	Measured		

Measurement Results

icusui cinem results				
	Area Scan	Zoom Scan		
Date	2022-03-12, 00:05	2022-03-12, 00:23		
psSAR1g [W/Kg]	28.5	31.3		
psSAR10g [W/Kg]	5.13	5.48		
Power Drift [dB]	0.07	0.04		
Power Scaling	Disabled	Disabled		
Scaling Factor [dB]				
TSL Correction	No correction	No correction		
M2/M1 [%]		56.2		
Dist 3dB Peak [mm]		6.1		



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Report No. :ES/2022/20003
Measurement Report for Device, FRONT, Validation band, CW, Channel 7000 (7000.0 MHz)

Device	Under	Test	Properties	

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	14.0 x 6.0 x 297.0	SN:1007	Dipole

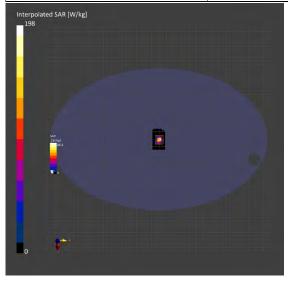
Exposure Conditions										
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity			
Flat, HSL	FRONT, 5.00	Validation band	CW, 0	7000.0, 7000	6.14	6.608	33.663			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	HBBL-600-10000 ,2022-Mar-12	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn877, 2021-03-22

Scans Setup		
	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 45.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results		
	Area Scan	Zoom Scan
Date	2022-03-12, 00:47	2022-03-12, 01:03
psSAR1g [W/Kg]	26.5	28.4
psSAR10g [W/Kg]	4.45	4.81
Power Drift [dB]	0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.6
Dist 3dB Peak [mm]		4.6



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Measurement Report for 10G Source, Front, Validation band, CW, Channel 10000 (10000.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz,	100.0 x 100.0 x 172.0	SN: 1021	-

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Front, 10.00	Validation band	CW, 0	10000.0, 10000	1.0

Hardware Setup

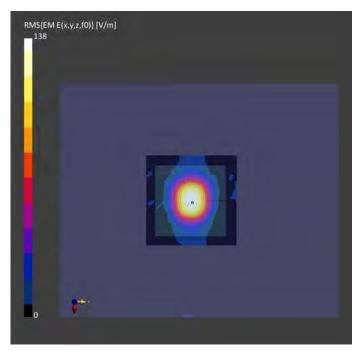
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-78GHz, 2022-01-26	DAE4 Sn877, 2021-03-22

Scans Setun

Scars Scrap	
Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

Measurement Results	
Scan Type	5G Scan
Date	2022-03-14, 01:20
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	45.4
psPDtot+ [W/m²]	45.5
psPDmod+ [W/m²]	45.7
$E_{max}[V/m]$	134
Power Drift [dB]	-0.01



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7. Uncertainty Budget

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

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	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%	œ
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	œ
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	œ
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%	œ
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	œ
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	œ
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	œ
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	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%	œ
Liquid permittivity (mea.)	1.04%	N	1	1	0.64	0.43	0.67%	0.45%	М
Liquid Conductivity (mea.)	0.85%	N	1	1	0.6	0.49	0.51%	0.42%	М
Combined standard uncertainty		RSS					11.75%	11.72%	
Expant uncertainty (95% confidence interval), K=2							23.49%	23.45%	

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

	I	1				ı — —		1	1
A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	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%	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%	00
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	00
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	00
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	00
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	00
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	00
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	00
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%	00
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.25%	N	1	1	0.64	0.43	0.80%	0.54%	М
Liquid Conductivity (mea.)	1.13%	N	1	1	0.6	0.49	0.68%	0.55%	М
Combined standard uncertainty		RSS					11.47%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.93%	22.87%	

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DASY6 Uncertainty Budget According to IEC/IEEE 62209-1528 (Frequency band: 6GHz - 10GHz range)

	(1.16	quency	Danu.	. 00112	- 100112 range)				
a	b	С	d		е	е	f=b * e / d	f=b * e / d	
Source of Uncertainty	Uncertainty Value (±%)	Probability Distributioin	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)	
Measurement system errors									
Probe calibration	18.6	N	2	2	1	1	9.3	9.3	
Probe Calibration Drift	1.7	R	√3	1.732	1	1	1.0	1.0	
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7	
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6	
Probe Isotropy	7.6	R	√3	1.732	1	1	4.4	4.4	
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3	
RF Ambient	1.8	N	1	1	1	1	1.8	1.8	
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1	
Data Processing	3.5	N	1	1	1	1	3.5	3.5	
Phantom and device errors	•								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8	
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0	
Phantom Permittivity	14.0	R	√3	1.732	0.5	0.5	4.0	4.0	
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0	
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0	
Device Holder	3.6	N	1	1	1	1	3.6	3.6	
DUT Modulationm	2.4	R	√3	1.732	1	1	1.4	1.4	
Time-average SAR	0.0	R	√3	1.732	1	1	0.0	0.0	
DUT drift	2.5	N	1	1	1	1	2.5	2.5	
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0	
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0	
Correction to the SAR results	•								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6	
SAR scaling	1.098	R	√3	1.732	1	1	0.6	0.6	
Combined Std. uncertainty							14.0	13.9	
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8	

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cDASY6 Module mmWave Uncertainty Budget for PD Evaluation Distances to the Antennas $\geq \lambda/5$ In Compliance with IEC/IEEE 63195

a	b	С	d		е	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+-dB)	Probability Distributioin	Div.	Div. Value	ci	Std. uncertainty (+-dB)	(vi) Veff
Uncertainty terms dependent on th	e measurement	system					
Probe calibration	0.49	N	1	1	1	0.49	00
Probe correction	0.00	R	√3	1.732	1	0.00	œ
Frequency response (BW ≦1GHz)	0.20	R	√3	1.732	1	0.12	œ
Sensor cross coupling	0.00	R	√3	1.732	1	0.00	œ
Isotropy	0.50	R	√3	1.732	1	0.29	œ
Linearity	0.20	R	√3	1.732	1	0.12	œ
Probe scattering	0.00	R	√3	1.732	1	0.00	œ
Probe positioning offset	0.30	R	√3	1.732	1	0.17	œ
Probe positioning repeatability	0.04	R	√3	1.732	1	0.02	œ
Sensor mechanical offset	0.00	R	√3	1.732	1	0.00	œ
Probe spatial resolution	0.00	R	√3	1.732	1	0.00	∞
Field impedance dependance	0.00	R	√3	1.732	1	0.00	00
Amplitude and phase drift	0.00	R	√3	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	√3	1.732	1	0.02	00
Measurement area truncation	0.00	R	√3	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	œ
Sampling	0.00	R	√3	1	1	0.00	œ
Field reconstruction	2.00	R	√3	1.732	1	1.15	œ
Forward transformation	0.00	R	√3	1.732	1	0.00	œ
Power density scaling	-	R	√3	1.732	1	-	œ
Spatial averaging	0.10	R	√3	1.732	1	0.06	œ
System detection limit	0.04	R	√3	1.732	1	0.02	œ
Uncertainty terms dependent on th	e DUT and envir	onmental facto	ors				
Probe coupling with DUT	0.00	R	√3	1.732	1	0.00	œ
Modulation response	0.40	R	√3	1.732	1	0.23	œ
Integration time	0.00	R	√3	1.732	1	0.00	œ
Response time	0.00	R	√3	1.732	1	0.00	œ
Device holder influence	0.10	R	√3	1.732	1	0.06	œ
DUT alignment	0.00	R	√3	1.732	1	0.00	00
RF ambient conditions	0.04	R	√3	1.732	1	0.02	œ
Ambient reflections	0.04	R	√3	1.732	1	0.02	00
Immunity / secondary reception	0.00	R	√3	1.732	1	0.00	œ
Drift of the DUT	-	R	√3	1.732	1	-	œ
Combined Std. uncertainty	1					1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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Appendixes

Refer to separated files for the following appendixes.

ES202220003 SAR_Appendix A Photographs

ES202220003 SAR Appendix B DAE & Probe Cal. Certificate

ES202220003 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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