

Page: 1 of 139

# RF Exposure report





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

Notebook Computer **Product Name** 

acer **Brand Name** N20Q11 Model No.

Acer Incorporated **Applicant** 

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

22181, Taiwan (R.O.C)

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

FCC ID HLZAX211D2 **Date of EUT Receipt** Nov. 11, 2022

Nov. 30, 2022 ~ Dec. 05, 2022 Date of Test(s)

Date of Issue Dec. 19, 2022

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

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

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#### Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Tom Chiang	Approved By / John Yeh
Kimmy Chiou	Tom Chiang	John Teh

Date: Dec. 19, 2022

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Page: 2 of 139

## **Revision History**

Revision	Description	Issue Date	Revised By	Remark
00	Initial creation of document	Dec. 13, 2022	Kimmy Chiou	*
01	Modify comment	Dec. 19, 2022	Kimmy Chiou	
	00	00 Initial creation of document Modify	00 Initial creation of document Dec. 13, 2022  Modify Dec. 19, 2022	On Initial creation of document Dec. 13, 2022 Kimmy Chiou  Modify Dec. 19, 2022 Kimmy  Modify Dec. 19, 2022

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

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Page: 3 of 139

## **Contents**

1	GENERAL INFORMATION	5
	1.1 Test Methodology	5
	1.2 Description of EUT	6
	1.3 Maximum value	7
2	MEASUREMENT SYSTEM	8
	2.1 Test Facility	8
	2.2 SAR System	9
	2.3 PD system	12
3	SAR SYSTEM VERIFICATION	14
	3.1 Tissue Simulating Liquid	14
	3.2 Tissue Simulant Liquid measurement	14
	3.3 Measurement results of Tissue Simulant Liquid	
	3.4 The composition of the tissue simulating liquid:	15
	3.5 System check	
	3.6 System check results	16
4	PD SYSTEM VERIFICATION	17
	4.1 System check	17
	4.2 System check result	18
5	TEST CONFIGURATIONS	19
	5.1 Test Environment	19
	5.2 Test Note	19
	5.3 Test position	21
	5.4 Power verification of device mode	23
	5.5 triggering verification for power reduction	26
	5.6 Test limit	
6	MAXIMUM OUTPUT POWER	33
	6.1 WLAN	33
	6.2 WIFI 6E	53
	6.3 Bluetooth	61
	6.4 BLE	61
7	DUTY CYCLE	62
8	SUMMARY OF RESULTS	65
	8.1 Decision rules	65
	8.2 Summary of SAR Results	65
	8.3 Summary of PD Results	69
	8.4 Reporting statements of conformity	69
	8.5 Conclusion	69
9	SIMULTANEOUS TRANSMISSION ANALYSIS	70
	9.1 Simultaneous Transmission Scenarios:	
	9.2 Estimated SAR calculation	71
	9.3 SPLSR evaluation and analysis	71
	9.4 Conclusion	72
10	INSTRUMENTS LIST	73
11		74

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Page: 4 of 139

12	SA	R MEASUREMENT RESULTS	78
13	PD	MEASUREMENT RESULTS	122
14	SA	R SYSTEM CHECK RESULTS	132
15	PD	SYSTEM CHECK RESULTS	138
16		PENDIXES	
		SAR_Appendix A Photographs	
		SAR_Appendix B DAE & Probe Cal. Certificate	
		SAR Appendix C Phantom Description & Dipole Cal. Certificate	

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Page: 5 of 139

### 1 GENERAL INFORMATION

#### 1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

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

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Page: 6 of 139

### **Description of EUT**

Product Name	Notebook Computer		
Brand Name	acer		
Model No.	N20Q11		
FCC ID	HLZAX211D2		
Integrated WLAN Module	Brand Name: Intel® Wi-Fi 6E AX211 Model Name: AX211D2W		
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE8 HE160 Bluetooth BR/EDR/LE		
Duty Cycle	WLAN802.11	Please refer to section 7	
Duty Cycle	Bluetooth	Please refer to section 7	
	802.11 b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)	
Supported radios (TV	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)	
Supported radios (TX Frequency Range, MHz)	802.11ax	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)	
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)	

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Page: 7 of 139

#### Maximum value

Summary of Maximum SAR and Power Density Value				
Mode	Highest SAR 1g Body (W/kg)	Highest APD (W/m^2)	Highest PD (W/m^2)	
Bluetooth(GFSK)	0.23	N/A	N/A	
2.4G WLAN	1.11	N/A	N/A	
5G WLAN	1.03	N/A	N/A	
6G WLAN	0.67	5.06	9.23	

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Page: 8 of 139

#### MEASUREMENT SYSTEM

#### 2.1 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan.  SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)  No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan  No.134, Wu Kung Road, New Taipei Industrial Park, Wuku	SAR 2	TW0029	
		SAR 6		
		SAR 1		
		SAR 4	TW0028	TW3702
		SAR 3		
District, New Taipei City, Taiwan	SAR 7	TW0027		

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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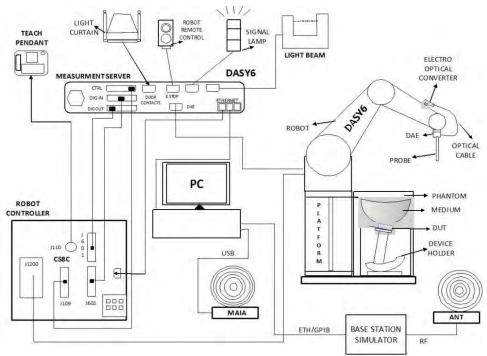


Page: 9 of 139

#### **SAR System** 2.2

#### **Block Diagram (DASY6)**

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



- 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 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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Page: 10 of 139

#### **EX3DV4 E-Field Probe**

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5250/5600/5750/6500/7000 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis)	
	± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic	$10  \mu \text{W/g}$ 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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Page: 11 of 139

### PHANTOM (FI I)

PHANTOW (E	E1)	
Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and bodymounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell	2 ± 0.2 mm	1
Thickness		
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm	I IN SECRETARY OF THE PARTY OF
	Minor axis: 400 mm	

### **DEVICE HOLDER (ELI)**

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		Device Holder

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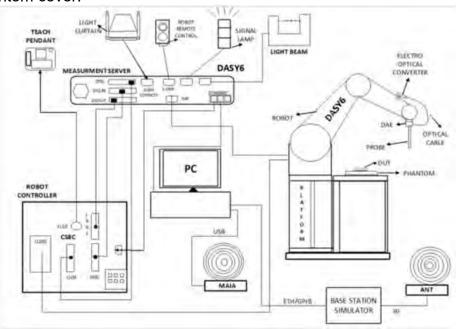


Page: 12 of 139

#### 2.3 PD system

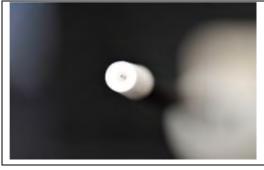
#### **Block Diagram (DASY6)**

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.



#### **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.



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.

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Page: 13 of 139

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	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
sensor— 1,5mm calibrated	required)
e e	
device	
Compatibility	cDASY6 + 5G-Module SW1.0 and higher

#### mmWave Phantom

The mmWave Phantom approximates free-space conditions, allowing for the evaluation of the antenna side of the device and the front (screen) side or any opposite-radiating side of wireless devices operating above 10 GHz without distorting the RF field. It consists of a 40mm thick Rohacell plate used as a test bed, which has a loss tangent (tan  $\delta$  )  $\leq$  0.05 and a relative permittivity ( $\epsilon r$ )  $\leq$  1.2. High-performance RF absorbers are placed below the foam.

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Page: 14 of 139

#### SAR SYSTEM VERIFICATION

#### 3.1 **Tissue Simulating Liquid**

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

#### 3.2 **Tissue Simulant Liquid measurement**

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 ± 5% of the target values.

#### 3.3 Measurement results of Tissue Simulant Liquid

Tissue Type	Measurement Date	Measured Frequenc y (MHz)	Target Dielectric Constant, εr	Target Conductiv ity, σ (S/m)		Measured Conductiv ity, σ (S/m)	% dev εr	% dev σ
		2412	39.265	1.766	40.355	1.854	2.77%	4.97%
		2437	39.222	1.788	40.310	1.876	2.77%	4.91%
	Dec, 02. 2022	2450	39.200	1.800	40.287	1.888	2.77%	4.88%
		2462	39.184	1.813	40.272	1.899	2.78%	4.75%
		2480	39.160	1.832	40.249	1.915	2.78%	4.56%
		5210	35.990	4.670	37.061	4.832	2.98%	3.46%
		5230	35.970	4.690	37.038	4.853	2.97%	3.47%
	Dec, 03. 2022	5250	35.950	4.710	37.016	4.874	2.96%	3.48%
		5270	35.930	4.730	36.993	4.895	2.96%	3.49%
		5290	35.910	4.750	36.970	4.916	2.95%	3.50%
		5530	35.605	4.997	36.696	5.171	3.06%	3.50%
		5570	35.545	5.039	36.650	5.213	3.11%	3.47%
Head		5600	35.500	5.070	36.616	5.245	3.14%	3.45%
i leau	Dec, 04. 2022	5690	35.410	5.160	36.513	5.340	3.11%	3.48%
		5750	35.350	5.220	36.444	5.403	3.10%	3.50%
		5755	35.345	5.225	36.438	5.408	3.09%	3.51%
		5775	35.325	5.245	36.416	5.429	3.09%	3.51%
		6025	35.070	5.510	36.128	5.695	3.02%	3.37%
		6185	34.878	5.698	35.936	5.867	3.03%	2.96%
		6345	34.686	5.887	35.744	6.039	3.05%	2.58%
		6500	34.500	6.070	35.558	6.207	3.07%	2.26%
	Dec, 05. 2022	6505	34.494	6.076	35.552	6.213	3.07%	2.26%
		6665	34.302	6.261	35.360	6.388	3.09%	2.01%
		6825	34.110	6.447	35.168	6.563	3.10%	1.80%
		6985	33.918	6.633	34.976	6.740	3.12%	1.62%
		7000	33.900	6.650	34.958	6.757	3.12%	1.60%

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Page: 15 of 139

#### The composition of the tissue simulating liquid:

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

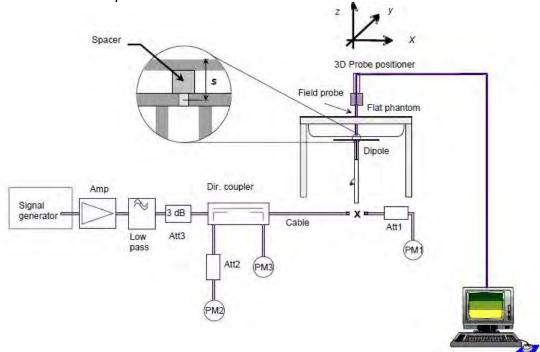
ennalating Engalas ist	000 1111 12 10 0	in E, manadarea by en E, ter	
Broad-band head	SPEAG	Frequency range (MHz)	Main Ingredients
tissue simulating	Product	Trequency range (MHz)	waiii iligiedielits
liquids	HBBL600-	600 - 10000	Water, Oil
iiquius	10000V6	000 - 10000	vvaler, On

#### 3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above 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.



The block diagram of system check

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Page: 16 of 139

### 3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.8	12.8	51.2	-3.03	± 10%	Dec.02,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	81	8.12	81.2	0.25	± 10%	Dec.03,2022
D5GHzV2	1023	5600	84.4	8.04	80.4	-4.74	± 10%	Dec.04,2022
D5GHzV2	1023	5750	81	8.1	81	0.00	± 10%	Dec.04,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	292	27.8	278	-4.79	± 10%	Dec.05,2022
D7GHzV2	1007	7000	278	26.9	269	-3.24	± 10%	Dec.05,2022

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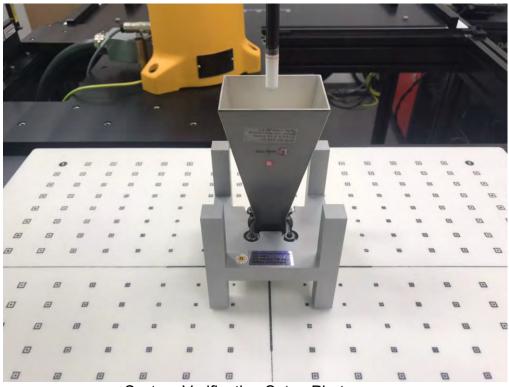
Page: 17 of 139

#### 4 PD SYSTEM VERIFICATION

#### 4.1 System check

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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Page: 18 of 139

#### System check result

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 (MHz)	PD Verification Source (MHz)	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
10000	10000	9616	1751	10	86.1	47.6	51.7	-0.36	Nov.30,2022

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Page: 19 of 139

#### 5 TEST CONFIGURATIONS

#### 5.1 Test Environment

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

#### 5.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq 0.8$  W/kg, when the transmission band is  $\leq 100$  MHz.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8$  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  $\geq 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).
- WLAN 2.4GHz: 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- WLAN 2.4GHz: 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- WLAN 5GHz: Initial Test Configuration: 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. 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. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration

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Page: 20 of 139

specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.

- WLAN 5GHz: Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.
- WLAN 6GHz: 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. 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). For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
- WLAN 6GHz: Per equipment manufacturer guidance, power density was measured at d=2mm with the grid step  $(0.0625\lambda)$  for determining compliance at d=2mm.
- WLAN 6GHz: 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.
- WLAN 6GHz: Per FCC guidance, for simultaneous transmission evaluation, using SAR sum and SPLSR for simultaneous transmit exclusion analyses and evaluations.

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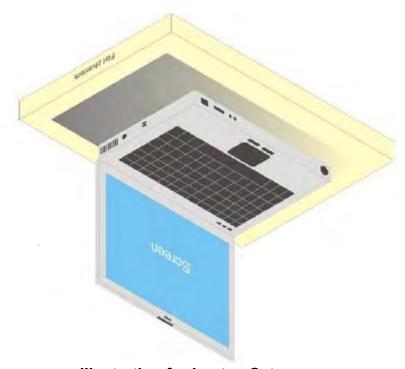


Page: 21 of 139

### 5.3 Test position

#### Laptop mode SAR test position (0mm)

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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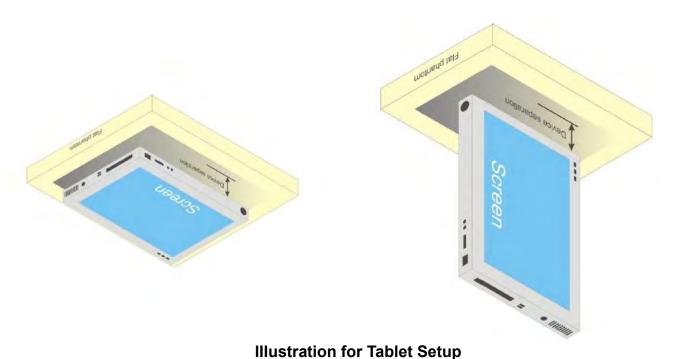
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Page: 22 of 139

#### Tablet mode SAR test position (0mm)

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.



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Page: 23 of 139

#### 5.4 Power verification of device mode

The device is a convertible laptop computer with predefined single fixed power to each device modes. For the device modes verification, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

Device Mode	Lid Open Angle description Lid Close → Laptop → Tablet	Lid Open Angle description Tablet → Laptop →Lid Close	Mode Reported to OS
Lid Close	0° ≤ Lid angle <30° (GMR Sensor Trigger)	0° ≤ Lid angle <30° (GMR Sensor Trigger)	Standby
Laptop	30° ≤ Lid angle < 200° (G-Sensor Trigger)	30° ≤ Lid angle < 200° (G-Sensor Trigger)	Notebook
Tablet	200° ≤ Lid angle ≤ 360° (G-Sensor Trigger)	200° ≤ Lid angle ≤ 360° (G-Sensor Trigger)	Non-notebook

#### Results and conclusion

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

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Page: 24 of 139

## Device mode verification by power measurement

Antenna											
	Operation mode	Lid angle 0°	802.11b 0.00	WLAN 802.11n(40M) 5.2G 0.00	WLAN 802.11ac(80M) 5.2G 0.00	WLAN 802.11ac(160M) 5.2G 0.00	WLAN 802.11n(40M) 5.3G 0.00	WLAN 802.11ac(80M) 5.3G 0.00	WLAN 802.11ac(80M) 5.6G 0.00	WLAN 802.11ac(160M) 5.6G 0.00	WLAN 802.11ac(80M) 5.8G 0.00
1	Lid close	10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laptop	20° 30°	0.00 20.99	0.00 20.95	0.00 18.87	0.00 14.89	0.00 20.96	0.00 17.96	0.00 20.98	0.00 15.95	0.00 20.92
		25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Lid close	26° 27°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Liu ciose	28°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		29° 30°	0.00 20.94	0.00 20.91	0.00 18.67	0.00 14.81	0.00 20.76	0.00 17.81	0.00 20.93	0.00 15.79	0.00 20.78
		31°	20.79	20.92	18.70	14.86	20.79	17.77	20.93	15.87	20.76
		32° 33°	20.84	20.81	18.72	14.75	20.94	17.75	20.88	15.74	20.77
		33°	20.82	20.88 20.91	18.83 18.74	14.85 14.79	20.91 20.81	17.87 17.83	20.80 20.88	15.73 15.79	20.74
		35°	20.88	20.89	18.82	14.67	20.94	17.74	20.86	15.90	20.70
		45° 55°	20.90 20.81	20.77	18.72 18.69	14.87 14.87	20.76 20.84	17.90 17.92	20.95 20.92	15.79 15.90	20.81
		65°	20.87	20.78	18.75	14.72	20.85	17.80	20.89	15.77	20.77
		75° 85°	20.85 20.89	20.89 20.81	18.68 18.79	14.85 14.78	20.85 20.84	17.82 17.77	20.85 20.79	15.77 15.81	20.88
	Laptop	95°	20.83	20.79	18.72	14.78	20.84	17.84	20.75	15.87	20.73
		105°	20.91 20.81	20.80 20.91	18.82 18.68	14.74 14.68	20.90 20.76	17.86 17.74	20.85 20.87	15.89 15.75	20.85 20.77
		125°	20.88	20.93	18.67	14.00	20.76	17.74	20.89	15.89	20.77
		135°	20.90	20.82	18.68	14.67	20.82	17.93	20.80	15.93	20.82
		145° 155°	20.81 20.86	20.81 20.78	18.71 18.69	14.69 14.82	20.93 20.80	17.94 17.77	20.90 20.80	15.74 15.93	20.83
		165°	20.95	20.86	18.84	14.83	20.91	17.76	20.87	15.90	20.90
		175° 185°	20.79	20.80 20.90	18.66 18.71	14.80 14.68	20.80 20.91	17.75 17.75	20.94 20.85	15.79 15.84	20.74
		195°	20.84	20.83	18.77	14.82	20.88	17.78	20.90	15.79	20.84
	Tablet	205° 195°	16.49 20.86	12.35 20.83	12.48 18.84	12.49 14.67	13.46 20.79	13.49 17.76	14.48 20.80	14.44 15.90	14.94 20.87
		196°	20.90	20.80	18.78	14.80	20.87	17.82	20.91	15.88	20.81
	Laptop	197° 198°	20.92	20.89	18.73	14.82 14.68	20.78 20.80	17.86 17.80	20.93	15.85 15.78	20.77
		198° 199°	20.93 20.86	20.77 20.87	18.72 18.79	14.68 14.71	20.80 20.84	17.80 17.94	20.82 20.86	15.78 15.73	20.87 20.72
		200°	16.27	12.20	12.39	12.39	13.44	13.28	14.38	14.29	14.85
		201° 202°	16.46 16.40	12.28 12.20	12.33 12.38	12.32 12.41	13.28 13.31	13.35 13.43	14.39 14.37	14.34 14.22	14.84 14.82
		203°	16.32	12.19	12.38	12.31	13.37	13.30	14.40	14.39	14.75
		204° 205°	16.34 16.40	12.28 12.17	12.31 12.27	12.36 12.39	13.39	13.31	14.28 14.43	14.39 14.32	14.74 14.84
		215°	16.41	12.14	12.44	12.28	13.40	13.31	14.38	14.38	14.85
		225° 235°	16.40 16.36	12.18 12.29	12.27 12.44	12.30 12.35	13.26 13.29	13.42 13.42	14.30 14.32	14.24 14.23	14.85 14.74
		245°	16.30	12.30	12.39	12.46	13.36	13.46	14.45	14.29	14.90
	Tablet	255° 265°	16.36 16.28	12.20 12.30	12.33 12.38	12.39 12.44	13.35 13.38	13.45 13.33	14.32 14.41	14.35 14.22	14.79 14.79
		275°	16.27	12.15	12.34	12.38	13.32	13.30	14.45	14.31	14.90
		285° 295°	16.31 16.43	12.25 12.18	12.30 12.45	12.30 12.29	13.34 13.30	13.45 13.36	14.37 14.41	14.38 14.28	14.83 14.83
		305°	16.42	12.16	12.45	12.29	13.40	13.28	14.41	14.41	14.84
		315°	16.32	12.29	12.44	12.43	13.35	13.31	14.30	14.27	14.82
		325°	16.37 16.28	12.17 12.28	12.32 12.26	12.33 12.38	13.28 13.28	13.44 13.38	14.39 14.40	14.25 14.30	14.73 14.88
		345°	16.27	12.20	12.38	12.45	13.29	13.31	14.42	14.34	14.87
		355°	16.35 16.43	12.24 12.21	12.34 12.35	12.36 12.42	13.43 13.43	13.34 13.38	14.37 14.40	14.33 14.40	14.86 14.92
Main		350°	16.46	12.28	12.29	12.42	13.38	13.42	14.43	14.32	14.88
- man		340° 330°	16.40 16.46	12.24 12.15	12.28 12.27	12.42 12.30	13.43 13.40	13.46 13.28	14.32 14.41	14.38 14.24	14.86 14.79
		320°	16.30	12.14	12.35	12.36	13.42	13.41	14.41	14.23	14.83
		310°	16.31 16.29	12.27 12.14	12.38 12.46	12.39 12.27	13.35 13.42	13.34 13.42	14.45 14.34	14.25 14.26	14.91 14.92
		290°	16.45	12.32	12.28	12.42	13.41	13.43	14.39	14.31	14.86
	Tablet	280° 270°	16.46 16.40	12.17 12.20	12.31 12.29	12.46 12.44	13.35 13.26	13.43 13.36	14.39 14.40	14.30 14.42	14.76 14.79
				10.10	12.30	12.33	13.33	13.27	11.00		14.88
		260°	16.40	12.16	12.30	12.00	13.33	13.27	14.39	14.29	
1		250°	16.40 16.33	12.15	12.34	12.31	13.43	13.27	14.44	14.29 14.37	14.89
		250° 240° 230°	16.40 16.33 16.32 16.37	12.15 12.21 12.17	12.34 12.42 12.39	12.31 12.39 12.35	13.43 13.28 13.37	13.27 13.28 13.46	14.44 14.30 14.31	14.29 14.37 14.36 14.38	14.89 14.89 14.78
		250° 240° 230° 220°	16.40 16.33 16.32 16.37 16.36	12.15 12.21 12.17 12.25	12.34 12.42 12.39 12.29	12.31 12.39 12.35 12.34	13.43 13.28 13.37 13.24	13.27 13.28 13.46 13.30	14.44 14.30 14.31 14.43	14.29 14.37 14.36 14.38 14.31	14.89 14.89 14.78 14.81
		250° 240° 230° 220° 210° 200°	16.40 16.33 16.32 16.37 16.36 16.40	12.15 12.21 12.17 12.25 12.14 12.16	12.34 12.42 12.39 12.29 12.35 12.44	12.31 12.39 12.35 12.34 12.28 12.42	13.43 13.28 13.37 13.24 13.29 13.41	13.27 13.28 13.46 13.30 13.32 13.43	14.44 14.30 14.31 14.43 14.40 14.31	14.29 14.37 14.36 14.38 14.31 14.35 14.33	14.89 14.89 14.78 14.81 14.81 14.88
	Laptop	250° 240° 230° 220° 210° 200°	16.40 16.33 16.32 16.37 16.36 16.40 16.41 20.91	12.15 12.21 12.17 12.25 12.14 12.16 20.79	12.34 12.42 12.39 12.29 12.35 12.44	12.31 12.39 12.35 12.34 12.28 12.42 14.73	13.43 13.28 13.37 13.24 13.29 13.41 20.82	13.27 13.28 13.46 13.30 13.32 13.43 17.82	14.44 14.30 14.31 14.43 14.40 14.31 20.83	14.29 14.37 14.36 14.38 14.31 14.35 14.33	14.89 14.89 14.78 14.81 14.81 14.88 14.74
	Laptop Tablet	250° 240° 230° 220° 210° 200° 190° 195° 200°	16.40 16.33 16.32 16.37 16.36 16.40 16.41 20.91 20.83 16.44	12.15 12.21 12.17 12.25 12.14 12.16 20.79 20.82 12.15	12.34 12.42 12.39 12.29 12.35 12.44 18.84 18.78	12.31 12.39 12.35 12.34 12.28 12.42 14.73 14.86	13.43 13.28 13.37 13.24 13.29 13.41 20.82 20.85 13.27	13.27 13.28 13.46 13.30 13.32 13.43 17.82 17.84	14.44 14.30 14.31 14.43 14.40 14.31 20.83 20.95 14.37	14.29 14.37 14.36 14.38 14.31 14.35 14.35 14.35 15.74 15.79	14.89 14.89 14.78 14.81 14.86 14.74 20.83 20.76 14.79
		250° 240° 230° 220° 210° 200° 190° 195° 200° 199°	16.40 16.33 16.32 16.37 16.36 16.40 16.41 20.91 20.83 16.44 20.78	12.15 12.21 12.17 12.25 12.14 12.16 20.79 20.82 12.15 20.91	12.34 12.42 12.39 12.29 12.35 12.44 18.84 18.78 12.32 18.65	12.31 12.39 12.35 12.34 12.28 12.42 14.73 14.86 12.30	13.43 13.28 13.37 13.24 13.29 13.41 20.82 20.85 13.27 20.83	13.27 13.28 13.46 13.30 13.32 13.43 17.82 17.84 13.41 17.79	14.44 14.30 14.31 14.43 14.40 14.31 20.83 20.95 14.37 20.94	14.29 14.37 14.36 14.38 14.31 14.35 14.33 15.74 15.79 14.28	14.89 14.78 14.78 14.81 14.88 14.74 20.83 20.76 14.79 20.79
		250° 240° 230° 220° 210° 200° 190° 195° 200° 198° 198° 198°	16.40 16.32 16.32 16.37 16.36 16.40 16.41 20.91 20.83 16.44 20.78 20.90 20.82	12.15 12.21 12.17 12.17 12.25 12.14 12.16 20.79 20.82 12.15 20.91 20.91 20.78	12.34 12.42 12.39 12.29 12.35 12.44 18.84 18.78 12.32 18.65 18.83	12.31 12.39 12.35 12.34 12.28 12.42 14.73 14.86 12.30 14.62 14.87 14.69	13.43 13.28 13.37 13.24 13.29 13.41 20.82 20.85 13.27 20.83 20.85	13.27 13.28 13.46 13.30 13.32 13.43 17.82 17.84 13.41 17.79 17.80	14.44 14.30 14.31 14.42 14.40 14.31 20.83 20.95 14.37 20.94 20.81	14.29 14.37 14.36 14.38 14.31 14.35 14.33 15.74 15.79 14.28 15.92 15.93 15.86	14.89 14.89 14.79 14.81 14.81 14.88 14.74 20.83 20.76 14.79 20.79 20.72 20.84
		250° 240° 230° 220° 210° 200° 190° 190° 195° 200° 199° 198° 198° 198°	16.40 16.33 16.32 16.37 16.36 16.40 16.41 20.91 20.83 16.44 20.78 20.90 20.90 20.90 20.90	12.15 12.21 12.17 12.25 12.14 12.18 20.79 20.82 12.15 20.91 20.91 20.81 20.93	12.34 12.42 12.39 12.29 12.35 12.35 12.44 18.84 18.76 12.32 18.65 18.83 18.79	12.31 12.39 12.35 12.34 12.24 12.28 14.73 14.88 12.30 14.82 14.67 14.69	13.43 13.28 13.37 13.24 13.29 13.41 20.82 20.85 13.27 20.85 20.65 20.79	13.27 13.28 13.46 13.30 13.32 13.32 17.82 17.84 13.41 17.79 17.80 17.93	14.44 14.30 14.31 14.43 14.40 14.41 20.83 20.95 14.37 20.94 20.61 20.78	14.29 14.37 14.36 14.39 14.31 14.35 14.33 15.74 15.79 14.28 15.92 15.93 15.86 15.86	14.89 14.89 14.78 14.81 14.81 14.88 14.74 20.83 20.75 14.79 20.79 20.72 20.84
		250° 240° 230° 220° 210° 200° 190° 195° 200° 198° 198° 198°	16.40 16.33 16.32 16.37 16.36 16.40 16.40 16.41 20.91 20.83 20.78 20.90 20.82 20.90 20.82	12.15 12.21 12.17 12.17 12.25 12.14 12.16 20.79 20.82 12.15 20.91 20.91 20.78	12.34 12.42 12.39 12.29 12.35 12.44 18.84 18.78 12.32 18.65 18.83	12.31 12.39 12.35 12.34 12.28 12.42 14.73 14.86 12.30 14.62 14.87 14.69	13.43 13.26 13.37 13.24 13.29 13.41 20.82 20.85 13.27 20.85 20.85 20.79 20.89 20.99	13.27 13.28 13.46 13.30 13.32 13.43 17.82 17.84 13.41 17.79 17.80	14.44 14.30 14.31 14.43 14.49 14.31 20.83 20.95 14.37 20.94 20.94 20.77	14.29 14.37 14.36 14.38 14.31 14.35 14.33 15.74 15.79 14.28 15.92 15.93 15.86	14.89 14.89 14.79 14.81 14.81 14.88 14.74 20.83 20.76 14.79 20.79 20.72 20.84
		250° 240° 230° 220° 220° 210° 200° 190° 195° 200° 198° 197° 198° 197° 198° 195° 198° 195° 198°	16.40 16.33 16.32 16.37 16.36 16.40 16.40 12.91 20.83 20.83 20.78 20.90 20.82 20.90 20.77 20.92 20.98	12.15 12.21 12.21 12.17 12.25 12.14 12.16 20.79 20.82 12.15 20.91 20.081 20.081 20.081 20.081 20.081 20.082 20.081 20.081 20.081 20.082	12.34 12.42 12.39 12.29 12.29 12.35 12.44 18.84 18.76 18.85 18.85 18.85 18.87 18.87 18.87 18.87	12.31 12.39 12.39 12.34 12.28 12.24 14.73 14.86 12.30 14.82 14.87 14.89 14.87 14.87 14.87 14.87 14.71	13.43 13.28 13.37 13.24 13.24 13.24 13.24 20.85 20.85 13.27 20.85 20.85 20.79 20.89 20.99 20.99 20.99	13.27 13.28 13.49 13.30 13.32 13.43 17.82 17.84 13.41 17.79 17.80 17.89 17.89 17.89	14.44 14.30 14.31 14.43 14.40 14.31 20.85 20.95 14.37 20.91 20.81 20.77 20.94 20.77 20.95 20.96	14.29 14.37 14.38 14.38 14.38 14.31 14.35 14.35 14.35 14.35 14.35 15.74 15.74 15.92 15.93 15.93 15.98 15.99 15.93 15.93	14.89 14.79 14.71 14.81 14.81 14.81 14.82 20.75 20.75 20.75 20.77 20.72 20.84 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.85
		250° 240° 230° 230° 220° 220° 210° 200° 190° 195° 200° 199° 188° 199° 188° 199° 188° 191° 191	16.40 16.33 16.32 16.37 16.36 16.40 16.41 20.91 20.83 16.44 20.78 20.90 20.82 20.90 20.90 20.97 20.92 20.96	12.15 12.21 12.27 12.25 12.14 12.16 12.16 12.16 12.00	12.34 12.42 12.39 12.29 12.35 12.44 18.77 18.77 18.83 18.83 18.83 18.83 18.87 18.87 18.87 18.87 18.87	12.31 12.39 12.35 12.34 12.28 12.28 12.47 14.47 14.88 14.88 14.87 14.88 14.87 14.87 14.87	13.43 13.26 13.37 13.24 13.24 13.24 13.24 13.24 20.65 20.65 20.65 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.85	13.27 13.28 13.46 13.30 13.30 13.47 13.47 17.64 17.76 17.78 17.80 17.80 17.83 17.83 17.83 17.83	14.44 14.30 14.31 14.45 14.45 14.40 14.31 14.40 14.31 20.93 20.94 20.97 20.94 20.97 20.95 20.88	14.29 14.37 14.38 14.38 14.38 14.38 14.33 15.74 15.79 14.28 15.92 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.93	14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.88 20.83 20.87 20.87 20.77 20.77 20.79 20.79 20.79 20.79 20.79 20.85 20.85 20.85 20.85 20.82 20.71 20.77
		250° 240° 230° 230° 220° 220° 210° 200° 195° 200° 198° 198° 197° 196° 195° 194° 193° 191° 191° 191°	16.40 16.33 16.32 16.37 16.37 16.39 16.40 16.41 20.91 20.83 16.44 20.78 20.78 20.89 20.89 20.77 20.92 20.88 20.88 20.87 20.88	12.15 12.21 12.27 12.27 12.27 12.28 12.14 12.16 12.16 12.16 12.17 12.29 12.20	12.34 12.42 12.29 12.29 12.26 12.44 10.75 10.75 10.75 118.65 118.83 118.77 118.67 118.67 118.67 118.67 118.67 118.67	12.31 12.39 12.35 12.34 12.28 12.28 12.42 12.42 14.67 14.88 14.88 14.87 14.89 14.81 14.87 14.89 14.81 14.71 14.72 14.73 14.73 14.71 14.72 14.73	13.43 13.26 13.37 13.24 13.24 13.24 13.24 13.27 20.85 20.85 20.85 20.85 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89	13.27 13.28 13.46 13.30 13.32 13.45 13.45 17.79 17.79 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80	14.44 14.30 14.31 14.45 14.40 14.41 14.40 14.40 14.40 14.41 14.31 20.95 20.96 20.96 20.97 20.97 20.97 20.99 20.97 20.99 20.97 20.99 20.97 20.99 20.90	14.29 14.37 14.38 14.38 14.38 14.38 14.33 15.74 15.79 14.29 15.69 15.86	14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.88 20.83 20.83 20.87 20.79 20.72 20.84 20.76 20.85 20.85 20.85 20.87 20.77 20.77 20.77 20.77 20.77 20.77 20.77
		250° 240° 230° 220° 210° 200° 180° 188° 200° 188° 197° 188° 197° 188° 191° 195° 195° 195° 195° 195° 195° 195	16.40 16.33 16.32 16.37 16.37 16.36 16.40 16.41 16.41 20.15 20.15 20.15 20.27 20.90	12.15 12.21 12.17 12.17 12.17 12.15	12.34 12.42 12.39 12.29 12.29 12.24 12.40 11.60	12.31 12.39 12.38 12.38 12.38 12.34 12.42 14.73 14.80 12.30 14.82 14.87 14.69 14.04 14.71 14.71 14.71 14.71 14.71 14.71 14.71 14.71	13.43 13.26 13.37 13.37 13.27 13.28 13.37 13.29 13.29 20.82 20.85 20.85 20.95 20.90	13.27 13.28 13.40 13.30 13.30 13.43 17.82 17.84 13.44 17.76 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.81 17.81 17.81 17.81 17.81 17.81 17.81 17.81 17.81	14.44 14.30 14.31 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 17.20 18.9 20.99 14.37 20.94 120.91 20.94 120.94 120.94 120.94 120.97 120.99 120.97 120.99 120.97 120.99 120.97 120.99 120.97	14.29 14.37 14.38 14.38 14.38 14.38 14.37 14.38 14.39 14.39 14.39 15.74 14.29 15.90	14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.83 14.81 14.83 120.83 120.76 120.79 120.79 120.79 120.79 120.79 120.71 120.71 120.71 120.71 120.71 120.71 120.71
	Tablet	250° 240° 230° 230° 220° 220° 210° 200° 195° 200° 198° 198° 197° 196° 195° 194° 193° 191° 191° 191°	16.40 16.33 16.32 16.37 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.41 20.91 20.91 20.92 20.95 20.96 20.96 20.96 20.96 20.97 20.88 20.87 20.88 20.87 20.88	12.15 12.21 12.27 12.27 12.27 12.28 12.14 12.16 12.16 12.16 12.17 12.29 12.20	12.34 12.42 12.29 12.29 12.26 12.44 10.75 10.75 10.75 118.65 118.83 118.77 118.67 118.67 118.67 118.67 118.67 118.67	12.31 12.39 12.35 12.35 12.34 12.42 12.42 14.73 14.82 12.30 14.82 14.87 14.88 14.87 14.88 14.71 14.71 14.71 14.71 14.71 14.71 14.71 14.70 14.70 14.70	13.43 13.26 13.37 13.24 13.24 13.24 13.24 13.27 20.85 20.85 20.85 20.85 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89	13.27 13.28 13.46 13.30 13.32 13.45 13.45 17.79 17.79 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80 17.80	14.44 14.30 14.31 14.45 14.40 14.31 14.40 14.33 20.63 20.63 20.63 20.63 20.61 20.78 20.94 20.77 20.95 20.88 20.91 20.77 20.95 20.88 20.91 20.77 20.95 20.88 20.91 20.77 20.95 20.88	14.29 14.37 14.38 14.38 14.38 14.38 14.33 15.74 15.79 14.29 15.69 15.86	14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.88 14.74 20.83 20.17 20.77 20.72 20.84 20.76 20.77 20.77 20.77 20.77 20.77 20.77 20.82 20.80 20.87
		250° 240° 230° 230° 210° 200° 190° 190° 198° 198° 198° 198° 198° 198° 198° 198	16.40 16.33 16.37 16.37 16.37 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.41 20.91 20.91 20.92 20.95 20.96 20.96 20.96 20.86 20.87 20.86 20.87 20.86 20.87 20.86 20.87 20.86 20.87 20.86 20.87 20.86 20.87 20.86 20.87 20.86 20.87 20.86 20.86 20.87 20.86 20.86 20.95 20.95 20.95	12.15 12.21 12.21 12.27 12.25 12.14 12.16 12.16 12.16 12.16 12.17 12.15 12.17 12.15 12.17	112.34 112.42 112.39 112.29 112.39 112.30 112.31 118.44 118.54 118.53 118.83 118.83 118.77 118.67 118.77 118.77 118.77 118.77 118.77	12.31 12.39 12.35 12.34 12.28 12.28 14.47 14.67 14.87 14.87 14.87 14.79 14.77 14.77 14.77 14.77 14.77 14.77 14.77 14.70 14.70 14.70 14.80 14.70 14.80	13.43 13.26 13.37 13.24 13.26 13.27 13.24 13.29 13.41 20.65 20.65 20.65 20.77 20.86 20.88 20.91 20.97 20.88 20.91 20.97 20.88 20.91 20.97 20.88 20.91 20.97 20.88 20.91 20.97 20.88	13.27 13.28 13.46 13.30 13.30 13.32 17.42 17.62 17.78 17.78 17.78 17.89 17.83 17.83 17.83 17.83 17.83 17.83 17.83 17.83 17.83 17.84 17.85	14.44 14.30 14.31 14.45 14.40 14.31 14.40 14.33 20.63 20.63 20.63 20.63 20.64 20.71 20.94 20.77 20.95 20.88 20.91 20.77 20.95 20.88 20.91 20.77 20.95 20.88 20.91 20.77 20.95 20.88 20.91 20.77 20.95 20.88 20.91	14.29 14.37 14.38 14.38 14.38 14.38 14.35 14.35 15.79 14.29 15.79 14.29 15.99 15.89 15.99 15.89 15.99 15.89 15.99 15.89 15.99 15.89 15.99	14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.88 14.74 20.83 20.17 20.78 20.79 20.79 20.82 20.82 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.70
	Tablet	250° 240° 230° 230° 210° 200° 190° 190° 195° 200° 196° 196° 196° 196° 196° 191° 195° 191° 195° 191° 191° 191° 191	16.40 16.33 16.32 16.37 16.37 16.36 16.40 16.41 16.41 16.41 16.42 16.20 17 20.95 20.96 20.96 20.96 20.88 20.88 20.88 20.88 20.88 20.88 20.88 20.88 20.88 20.88 20.88 20.88 20.88	12.15 12.21 12.17 12.25 12.25 12.25 12.25 12.25 12.25 12.15 12.15 12.079 12.082 12.15 12.091	12.34 12.42 12.39 12.29 12.29 12.44 118.64 118.76 118.76 118.77 118.77 118.77 118.77 118.77 118.77 118.75 118.75 118.75 118.75 118.77 118.77	12.31 12.39 12.35 12.35 12.34 12.42 12.42 14.73 14.82 12.30 14.82 14.87 14.88 14.87 14.88 14.71 14.71 14.71 14.71 14.71 14.71 14.71 14.70 14.70 14.70	13.43 13.26 13.37 13.37 13.28 13.37 13.28 13.38 13.34 13.41	13.27 13.28 13.46 13.30 13.50 13.50 13.50 17.82 17.84 17.78 17.80 17.80 17.80 17.83 17.83 17.83 17.83 17.85	14.44 14.30 14.31 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 120.83 120.83 120.95 14.37 120.94 120.77 120.97 120.97 120.97 120.97 120.97 120.97 120.97 120.97 120.97 120.97 120.97 120.98 120.97 120.98 120.98 120.98	14.29 14.37 14.38 14.38 14.38 14.31 14.35 14.35 14.35 15.74 15.72 15.72 15.92 15.93 15.93 15.93 15.93 15.93 15.93 15.93 15.94 15.95	14.89 14.89 14.89 14.81 14.81 14.81 14.81 14.85 1.80 18.81 1
	Tablet	250° 240° 230° 230° 250° 250° 190° 190° 190° 190° 190° 190° 190° 19	16.40 16.33 16.32 16.32 16.37 16.37 16.37 16.37 16.40 16.41 20.91 20.91 20.91 20.92 20.82 20.82 20.82 20.82 20.82 20.82 20.86 20.77 20.97 20.92 20.88 20.87 20.87 20.88 20.87 20.89 20.89 20.87 20.95 20.88 20.87 20.95 20.88	12.15 12.21 12.27 12.27 12.28 12.29 12.29 12.29 12.20 12.20 12.15 20.79 20.82 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81	12.34 12.42 12.29 12.29 12.29 12.40 11.40 11.684 118.78 118.69 118.65 118.79 118.65 118.70 118.67 118.67 118.67 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.78 118.78 118.78 118.78 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79 118.79	12.31 12.39 12.35 12.35 12.34 12.42 12.42 14.47 14.88 14.88 14.87 14.88 14.87 14.88 14.77 14.70 14.70 14.88 14.77 14.70 14.70 14.80 14.80 14.81 14.70 14.81 14.70 14.81 14.70 14.82 14.83 14.87 14.83 16.83 16.83 16.83 16.83 16.83 16.83 16.83 16.83 16.83 16.83 16.83	13.43 13.26 13.37 13.27 13.28 13.37 13.28 13.28 13.27 20.85 20.85 20.95 20.99 20.99 20.90	13.27 13.28 13.40 13.30 13.43 13.43 13.43 17.78	14.44 14.30 14.31 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 17.20 18.1 20.83 20.94 20.77 20.95 20.96 20.97 20.96 20.98 20.97 20.98 20.98 20.98 20.98 20.98 20.98 20.98 20.98	14.29 14.37 14.38 14.38 14.38 14.31 14.35 14.35 14.35 15.77 15.89 15.79 15.89 15.79 15.80 15.79 15.81 15.81 15.81 15.81	14.89 14.89 14.89 14.81 14.81 14.81 14.88 14.81 14.88
	Tablet	260° 240° 240° 240° 250° 250° 250° 250° 250° 250° 250° 25	16.40 16.33 16.37 16.37 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37	12.15 12.21 12.17 12.17 12.17 12.17 12.18	12.34 12.42 12.39 12.39 12.35 12.44 18.84 18.84 18.85 18.65 18.65 18.65 18.67 18.67 18.67 18.77	12.31 12.39 12.39 12.39 12.39 12.42 12.42 14.73 14.86 12.30 14.62 14.66 14.67 14.71 14.77 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80	13.43 13.26 13.37 13.37 13.37 13.39 13.39 13.41 20.82 20.85 20.85 20.87 20.83 20.87 20.83 20.87 20.89 20.99	13.27 13.28 13.46 13.30 13.30 13.30 17.82 17.84 17.79 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.80	14.44 14.30 14.31 14.31 14.31 14.31 14.31 14.31 20.83 20.83 20.95 20.95 20.97 20.99	14.29 14.37 14.36 14.38 14.38 14.38 14.35 14.35 15.70 14.28 15.70 14.28 15.80 15.70 15.80 15.70 15.70 15.80 15.70 15.70 15.80	14.89 14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.88 14.74 20.83 20.78 20.78 20.79 20.79 20.79 20.70 20.70 20.77
	Tablet	250° 240° 230° 230° 250° 250° 190° 190° 190° 190° 190° 190° 190° 19	16.40 16.33 16.32 16.32 16.37 16.37 16.37 16.37 16.40 16.41 20.91 20.91 20.91 20.92 20.82 20.82 20.82 20.82 20.82 20.82 20.86 20.77 20.97 20.92 20.88 20.87 20.87 20.88 20.87 20.89 20.89 20.87 20.95 20.88 20.87 20.95 20.88	12.15 12.21 12.27 12.27 12.28 12.29 12.29 12.29 12.20 12.20 12.15 20.79 20.82 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81 20.81	12.34 12.42 12.29 12.29 12.29 12.40 11.40 11.684 118.78 118.78 118.65 118.79 118.65 118.79 118.67 118.67 118.67 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.77 118.78 118.78 118.78 118.78 118.78	12.31 12.39 12.35 12.35 12.34 12.42 12.42 14.47 14.88 14.88 14.87 14.88 14.87 14.88 14.77 14.70 14.70 14.88 14.77 14.70 14.70 14.80 14.80 14.81 14.70 14.81 14.70 14.81 14.70 14.82 14.83 14.87 14.83	13.43 13.26 13.37 13.27 13.28 13.37 13.28 13.28 13.27 20.85 20.85 20.95 20.99 20.99 20.90	13.27 13.28 13.40 13.30 13.50 17.82 17.84 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.89 17.78 17.89	14.44 14.30 14.31 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 17.20 18.1 20.83 20.94 20.77 20.95 20.96 20.97 20.96 20.98 20.97 20.98 20.98 20.98 20.98 20.98 20.98 20.98 20.98	14.29 14.37 14.38 14.38 14.38 14.31 14.35 14.35 14.35 15.77 15.89 15.79 15.89 15.79 15.80 15.79 15.81 15.81 15.81 15.81	14.89 14.89 14.89 14.81 14.81 14.81 14.88 14.81 14.88
	Tablet	260° 240° 240° 220° 220° 220° 220° 220° 22	16.40 16.33 16.32 16.37 16.37 16.37 16.37 16.41 20.91 20.91 20.91 20.92 20.83 20.96 20.77 20.97 20.97 20.97 20.97 20.97 20.97 20.97 20.98 20.88 20.87 20.98 20.87 20.99 20.89 20.89 20.87 20.99 20.89	12.15 12.21 12.27 12.27 12.26 12.16 12.17 12.26 12.18 12.19	12.34 12.42 12.29 12.29 12.29 12.35 12.35 11.87 18.65 18.83 18.70 18.67 18.667 18.67 18.67 18.67 18.67 18.67 18.67 18.67 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.78 18.78 18.78 18.78 18.78 18.78 18.78 18.78 18.79	12.31 12.39 12.35 12.34 12.35 12.34 12.42 12.42 14.47 14.47 14.47 14.88 14.87 14.88 14.87 14.88 14.87 14.88 14.71 14.70 14.70 14.70 14.70 14.69 14.71 14.71 14.71 14.71 14.71	13.43 13.26 13.37 13.27 13.28 13.29 13.29 13.29 13.29 13.27 20.85 20.85 20.77 20.86 20.90 20.89 20.90	13.27 13.28 13.40 13.30 13.30 13.32 17.82 17.84 17.78 17.80 17.80 17.83 17.85	14.44 14.30 14.31 14.43	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.33 15.74 15.79 14.28 15.90	14.89 14.89 14.89 14.81 14.81 14.81 14.81 14.88 14.72 14.81 14.78 20.79 20.79 20.79 20.81 20.78 20.82 20.71 20.72 20.81 20.70 20.82 20.71 20.72 20.81 20.70 20.70 20.82 20.71 20.72 20.71 20.72 20.71 20.72 20.72 20.71 20.72 20.73 20.76 20.76 20.76 20.76 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.77
	Tablet	260° 260° 260° 260° 260° 260° 260° 260°	16.40 16.33 16.37 16.37 16.37 16.36 17.37 16.36 18.37 16.36 18.37 16.36 18.37 16.36 18.37 16.36 18.37 18.36 18.37 18.36 18.37 18.36 18.37 18.36 18.37 18.36 18.37 18.36 18.37 18.36	12.15 12.21 12.17 12.17 12.17 12.17 12.18 12.18 12.18 12.19 20.79 20.82 20.82 12.15 20.91 20.91 20.91 20.92 20.92 20.93 20.76 20.76 20.79 20.92 20.90 20.91 20.90 20.91 20.90 20.91 20.90 20.91 20.90 20.90 20.91 20.90 20.90 20.91 20.90	12.34 12.42 12.39 12.39 12.39 12.44 18.84 18.84 18.85 18.85 18.85 18.85 18.85 18.85 18.85 18.87 18.87 18.87 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76 18.76	12.31 12.39 12.39 12.39 12.39 12.24 12.42 14.73 14.89 12.30 14.62 14.67 14.67 14.67 14.71 14.71 14.70 14.69 14.70 14.69 14.70 14.69 14.70 14.70 14.69 14.70 14.70 14.69 14.70	13.43 13.26 13.37 13.37 13.37 13.37 13.39 13.41 20.82 20.82 20.85 13.27 20.83 20.85 20.85 20.85 20.95 20.97 20.97 20.90 20.97	13.27 13.28 13.40 13.30 13.50 17.82 17.84 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.89 17.78 17.89	14.44 14.30 14.31 14.31 14.31 14.31 14.31 12.08	14.29 14.37 14.36 14.38 14.38 14.38 14.38 14.35 15.70 15.70 14.28 15.70 15.80 15.70 15.80 15.70 15.70 15.80 15.70 15.80	14.89 14.89 14.78 14.81
	Tablet	260° 260° 260° 260° 270° 270° 270° 270° 270° 270° 270° 27	16.40 16.33 16.37 16.37 16.37 16.36 17.37 16.36 18.40 19.30	12.15 12.21 12.17 12.17 12.17 12.15	12.34 12.42 12.29 12.29 12.29 12.24 12.40 12.40 18.84 18.84 18.85 18.85 18.85 18.85 18.85 18.85 18.85 18.87 18.87 18.87 18.87 18.87 18.87 18.87 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.79 18.79 18.79 18.70	12.31 12.39 12.39 12.38 12.38 12.38 12.38 12.38 14.28 14.73 14.88 14.77 14.88 14.88 14.88 14.77 14.88 14.88 14.77 14.88 14.88 14.77 14.88	13.43 13.26 13.37 13.27 13.28 13.37 13.29 13.29 13.20 20.82 20.85 20.97 20.77 20.97	13.27 13.28 13.40 13.30 13.43 13.43 17.82 17.84 17.78 17.80 17.76 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.80 17.78 17.80 17.78 17.80 17.78 17.80 17.78 17.80 17.78 17.80 17.78 17.80	14.44 14.30 14.31 14.43	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.39 14.39 14.29 15.79 14.29 15.89 15.89 15.89 15.79 15.74 15.80 15.77 15.84 15.86 15.77 15.86 15.87 15.87	14.89 14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.81 14.83 1.80 18.81 1
	Tablet	260° 240° 220° 220° 220° 220° 220° 220° 22	16.40 16.33 16.37 16.37 16.37 16.37 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37	12.15 12.21 12.21 12.27 12.26 12.14 12.15 12.16 12.16 12.16 12.17 12.26 12.16 12.17 12.27 12.18 12.18 12.19	12.34 12.42 12.29 12.29 12.25 12.25 12.35 18.64 18.75 18.65 18.83 18.77 18.67 18.67 18.77	12.31 12.39 12.35 12.34 12.28 12.28 12.28 12.28 12.29 14.82 14.82 14.89 14.88 14.87 14.89 14.81 14.71 14.70 14.71 14.69 14.71 14.69 14.71 14.69 14.71 14.71 14.69 14.71 14.71 14.88	13.43 13.26 13.37 13.24 13.27 13.24 13.27 13.28 13.27 20.81 20.85 20.85 20.77 20.88 20.99 20.97 20.89 20.90 20.77 20.88 20.91 20.77 20.88 20.91 20.77 20.88 20.91 20.77 20.88 20.91 20.77 20.88 20.91 20.77 20.88 20.91 20.77 20.88 20.91 20.77 20.88 20.91 20.77 20.98 20.99 20.77 20.98 20.99 20.77 20.98 20.99 20.77 20.98 20.99 20.77 20.98 20.99 20.77 20.98 20.98 20.99 20.77 20.98	13.27 13.28 13.46 13.30 13.32 13.32 13.32 13.32 17.84 17.78 17.80 17.80 17.83 17.80 17.85 17.85 17.85 17.85 17.85 17.87 17.85 17.87 17.87 17.87 17.88 17.89	14.44 14.30 14.31 14.43 14.443 14.443 14.445 14.440 14.37 14.437	14.29 14.37 14.38 14.38 14.38 14.38 14.35 14.35 14.35 15.79 14.28 15.92 15.92 15.92 15.92 15.92 15.96 15.77 15.78 15.86 15.78 15.86 15.78 15.86 15.87 15.78 15.87 15.77 15.77 15.81 15.88	14.89 14.89 14.89 14.81 14.81 14.81 14.81 14.81 14.88 20.30 20.72 20.79 20.79 20.79 20.85 20.82 20.71 20.71 20.72 20.71 20.72 20.71 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.71 20.72 20.75 20.76 20.77
	Tablet Laptop	260° 260° 260° 260° 260° 260° 260° 260°	16.40 16.33 16.37 16.37 16.37 16.37 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37 16.36 16.37	12.15 12.21 12.17 12.27 12.27 12.25 12.25 12.25 12.25 12.25 12.15 12.27 12.25 12.15 12.27 12.25 12.27 12.25 12.27 12.25 12.27	12.34 12.42 12.29 12.29 12.29 12.24 11.8.64 118.78 118.78 118.65 118.79 118.65 118.77 118.79 118.70	12.31 12.39 12.39 12.39 12.39 12.42 14.73 14.89 12.30 14.82 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.88 14.71 14.70 14.88 14.71 14.70 14.88 14.71 14.70 14.88 14.71 14.70 14.88 14.71 14.70 14.88 14.72 14.70 14.89 14.70 14.89 14.70 14.89 14.70 14.89 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.72 14.77 14.89 14.77 14.70 14.89 14.77 14.70 14.89 14.77 14.70 14.89 14.77 14.70 14.89 14.77 14.70 14.89 14.77 14.70 14.89 14.77 14.70 14.70 14.70 14.89 14.77 14.70 14.89 14.77 14.70	13.43 13.26 13.37 13.27 13.28 13.37 13.29 13.29 13.20 20.82 20.85 20.97 20.77 20.97	13.27 13.28 13.40 13.30 13.43 13.43 13.43 17.78 17.78 17.78 17.89 17.84 17.83 17.84 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.79 17.79 17.79 17.78 17.79	14.44 14.30 14.31 14.43	14.29 14.37 14.38 14.38 14.38 14.38 14.33 14.35 14.35 14.35 15.79 14.28 15.79 14.28 15.89 15.89 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.81 15.81 15.81 15.81 15.81 15.81 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87	14.89 14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.81 14.83 1.80 18.81 1
	Tablet  Laptop  Laptop  Lid close	260° 260° 260° 260° 260° 260° 260° 260°	16.40 16.33 16.32 16.37 16.37 16.37 16.37 16.37 16.40 16.41 20.91 20.91 20.95 20.80	12.15 12.21 12.27 12.27 12.27 12.25 12.25 12.25 12.25 12.25 12.15 12.27 12.25 12.15 12.27 12.25 12.15 12.27 12.25	12.34 12.42 12.29 12.29 12.29 12.24 11.8.64 118.78 118.78 118.65 118.65 118.77 118.78 118.78 118.81 118.74 118.66 118.66 118.67 118.67 118.67 118.67	12.31 12.39 12.35 12.35 12.35 12.35 12.35 12.35 12.42 14.47 14.88 14.87 14.88 14.87 14.88 14.87 14.88 14.87 14.88 14.87 14.88 14.71 14.87 14.87 14.89 14.87 14.89 14.71 14.89 14.71 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.70 14.70 14.89 14.71 14.70	13.43 13.26 13.37 13.27 13.28 13.37 13.28 13.27 20.82 20.85 20.95 20.95 20.95 20.95 20.95 20.97 20.85 20.97 20.85 20.97 20.86 20.97 20.87 20.88 20.97 20.98 20.97 20.98 20.97 20.98 20.97 20.98 20.97 20.98 20.99 20.97 20.98 20.99 20.99 20.99 20.99 20.99 20.97 20.97 20.98 20.99	13.27 13.28 13.40 13.30 13.43 13.43 13.43 17.82 17.84 17.78 17.80 17.80 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.80 17.79 17.78 17.80 17.79 17.78 17.80 17.79 17.78 17.80 17.79 17.78 17.80 17.79 17.78 17.80	14.44 14.30 14.31 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 16.43 16.43 17.20 18.30	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.38 15.74 15.79 14.28 15.59 15.50 15.57	14.89 14.89 14.89 14.81 14.81 14.81 14.88 14.81 14.88 14.81 14.88 16.83 20.79 20.79 20.79 20.72 20.84 20.76 20.85 20.82 20.17 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.79
	Tablet Laptop	260° 260° 260° 260° 260° 260° 260° 260°	16.40 16.33 16.37 16.37 16.37 16.37 16.36 16.37	12.15 12.21 12.17 12.17 12.17 12.17 12.17 12.18 12.18 12.19 12.18 12.19 12.18 12.19 12.18 12.19	12.34 12.42 12.39 12.39 12.39 12.44 18.84 18.84 18.84 18.85 18.65 18.65 18.65 18.65 18.65 18.65 18.67 18.67 18.77	12.31 12.39 12.39 12.39 12.39 12.24 12.42 14.73 14.89 12.30 14.82 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.88 14.71 14.71 14.71 14.88 14.71 14.71 14.71 14.88 14.71 14.71 14.71 14.71 14.88 14.72 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.73 14.88 14.72 14.70 14.88	13.43 13.26 13.37 13.37 13.37 13.37 13.37 13.37 13.41 13.41 12.08 20.82 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.95 20.77 20.95 20.77 20.91 20.88 20.92 20.93 20.77 20.93	13.27 13.28 13.40 13.40 13.50 13.43 17.82 17.84 17.79 17.80 17.78	14.44 14.30 14.31 14.31 14.31 14.31 14.31 12.03 12.03 12.03 12.03 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 14.37 12.03 12.03 12.03 13.03	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.38 14.38 15.79 14.28 15.79 14.28 15.89 15.80 15.79 15.80 15.79 15.80 15.79 15.80 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.70 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87	14.89 14.89 14.89 14.78 14.81
	Tablet  Laptop  Laptop  Lid close	260° 260° 260° 260° 260° 260° 260° 260°	16.40 16.33 16.37 16.37 16.37 16.37 16.38 16.37 16.39 16.37 16.30 16.37 16.30 16.37 16.30 16.37 16.30 16.37 16.30 16.37 16.30	12.15 12.21 12.17 12.17 12.17 12.17 12.17 12.18	12.34 12.42 12.26 12.28 12.29 12.29 12.29 12.24 12.40 11.24 11.24 11.25 11.65 11.67	12.31 12.39 12.39 12.39 12.38 12.28 12.28 12.28 14.27 14.73 14.86 12.30 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.71 14.71 14.71 14.71 14.71 14.71 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.70 14.70 14.80 14.70	13.43 13.26 13.37 13.37 13.37 13.37 13.37 13.37 13.37 13.41 13.41 20.82 20.85 20.85 20.85 20.85 20.95 20.93 20.77 20.86 20.91 20.77 20.92 20.77 20.92 20.77 20.92 20.77 20.92 20.77 20.97 20.77 20.97 20.77 20.97 20.77 20.98 20.77 20.99 20.77 20.99 20.77 20.77 20.99 20.77 20.97 20.77 20.97 20.77 20.97 20.77 20.98 20.77 20.99 20.77	13.27 13.28 13.40 13.40 13.50 13.40 13.50 17.84 17.84 17.76 17.80	14.44 14.30 14.43	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.38 14.38 15.79 14.28 15.79 14.28 15.89 15.80 15.79 15.80 15.79 15.80 15.79 15.80 15.79 15.81 15.81 15.81 15.81 15.81 15.81 15.81 15.81 15.81 15.81 15.81 15.81 15.81 15.87 15.88	14.89 14.89 14.89 14.89 14.78 14.81 14.81 14.81 14.81 14.81 14.83 16.83
	Tablet  Laptop  Laptop  Lid close	260° 260° 260° 260° 270° 270° 270° 270° 270° 270° 270° 27	16.40 16.33 16.37 16.37 16.37 16.37 16.37 16.37 16.41 20.91 16.40 20.91 20.91 20.92 20.93 20.83 20.97 20.97 20.92 20.88 20.87 20.97 20.97 20.98 20.88 20.97 20.97 20.98 20.88 20.97 20.97 20.98 20.88 20.97 20.97 20.98 20.98 20.99 20.90	12.15 12.21 12.27 12.27 12.27 12.28 12.36 12.16 12.17 12.28 12.19	12.34 12.42 12.29 12.29 12.29 12.39 12.30 12.30 12.30 13.64 18.65 18.65 18.65 18.77 18.67 18.667 18.681 18.77 18.677 18.677 18.677 18.677 18.677 18.78	12.31 12.39 12.35 12.33 12.33 12.33 12.33 12.42 12.42 14.47 14.47 14.47 14.48 14.87 14.89 14.80 14.87 14.87 14.87 14.87 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.71 14.80 14.70 14.80 16.70	13.43 13.26 13.37 13.27 13.28 13.29 13.29 13.27 13.28 13.29 13.27 20.85 20.85 20.79 20.89 20.89 20.99 20.90	13.27 13.28 13.40 13.30 13.30 13.30 13.32 13.32 17.84 17.84 17.78 17.80 17.80 17.80 17.83 17.88 17.88 17.88 17.89 17.88 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.89 17.78 17.81 17.81 17.81 17.81 17.81 17.81 17.81 17.81 17.83 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.80 10.00 0.00 0.00	14.44 14.30 14.31 14.43	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.37 15.79 14.28 15.79 14.29 15.92 15.92 15.92 15.93 15.96 15.96 15.96 15.97 15.86 15.97 15.88 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.87 15.88	14.89 14.89 14.89 14.89 14.81 14.81 14.81 14.88 14.78 14.81 14.88 14.78 20.79 20.79 20.79 20.79 20.79 20.81 20.78 20.82 20.71 20.81 20.70 20.81 20.70 20.81 20.70 20.81 20.70 20.70 20.81 20.70
	Tablet  Laptop  Laptop  Lid close	260° 260° 260° 260° 270° 270° 270° 270° 270° 270° 270° 27	16.40 16.33 16.37 16.37 16.37 16.37 16.37 16.37 16.41 20.91 16.40 20.91 20.97 20.97 20.90 20.80	12.15 12.21 12.27 12.27 12.27 12.28 12.36	12.34 12.42 12.29 12.29 12.29 12.39 12.30 12.30 12.30 12.30 13.70 18.65 18.65 18.65 18.65 18.77 18.67 18.667 18.681 18.77 18.67 18.67 18.7	12.31 12.39 12.35 12.35 12.34 12.42 12.42 12.42 14.47 14.47 14.47 14.48 14.71 14.69 14.69 14.69 14.71 14.70 14.69 14.71 14.70 14.70 14.70 14.80 14.71 14.70 14.70 14.80 14.71 14.70 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70	13.43 13.28 13.27 13.37 13.28 13.37 13.28 13.37 13.28 13.49 13.47	13.27 13.28 13.40 13.30 13.30 13.30 13.30 13.30 13.30 13.30 13.30 17.80	14.44 14.30 14.31 14.43	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.38 14.37 15.79 14.29 15.27 15.79 14.29 15.92 15.92 15.92 15.93 15.95 15.95 15.95 15.95 15.95 15.95 15.95 15.96 15.97 15.87 15.81 15.85 15.87 15.87 15.87 15.87 15.87 15.81 15.81 15.81 15.81 15.85 15.85 15.85 15.85 15.87 15.87 15.87 15.87 15.88	14.89 14.89 14.89 14.89 14.81
	Tablet  Laptop  Laptop  Lid close	260° 260° 260° 260° 270° 260° 260° 260° 260° 260° 260° 260° 26	16.40 16.33 16.32 16.32 16.37 16.37 16.37 16.37 16.37 16.40 16.41 20.91 20.91 20.91 20.92 20.92 20.82 20.82 20.96 20.77 20.99 20.88 20.87 20.96 20.87 20.97 20.99 20.88 20.87 20.99 20.89	12.15 12.21 12.17 12.17 12.17 12.17 12.15	12.34 12.42 12.29 12.29 12.29 12.29 12.24 12.40 12.24 12.40 12.44 18.84 18.84 18.84 18.85 18.85 18.85 18.85 18.85 18.85 18.85 18.85 18.87 18.87 18.87 18.87 18.87 18.87 18.87 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.77 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.86 18.86 18.86 18.86 18.86 18.86 18.86 18.87 18.70	12.31 12.39 12.39 12.38 12.39 12.38 12.31 12.39 12.31 14.32 14.47 14.80 14.82 14.87 14.88 14.88 14.88 14.87 14.88 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.88 14.87 14.78 14.88 14.71 14.72 14.88 14.71 14.72 14.73 14.88 14.71 14.77 14.78 14.88 14.71 14.77 14.78 14.88 14.71 14.77 14.78 14.88 14.77 14.78	13.43 13.26 13.37 13.27 13.37 13.28 13.37 13.28 13.37 13.28 13.37 20.82 20.85 20.85 20.97 20.77 20.91 20.82 20.95	13.27 13.28 13.49 13.40 13.50 13.50 13.50 13.43 17.84 17.78 17.80 17.80 17.80 17.80 17.80 17.80 17.78 17.79 17.79 17.80	14.44 14.30 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 16.43 16.43 17.43	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.38 14.38 14.38 15.79 14.28 15.79 14.28 15.89 15.80 15.79 15.80 15.79 15.81 15.81 15.81 15.87 15.87 15.87 15.88	14.89 14.89 14.89 14.89 14.81
	Tablet  Laptop  Laptop  Lid close  Laptop	260° 260° 260° 260° 260° 260° 260° 260°	16.40 16.33 16.37 16.37 16.37 16.37 16.37 16.37 16.41 20.91 16.40 20.91 20.97 20.97 20.90 20.80	12.15 12.21 12.27 12.27 12.27 12.28 12.36	12.34 12.42 12.29 12.29 12.29 12.39 12.30 12.30 12.30 12.30 13.70 18.65 18.65 18.65 18.65 18.77 18.67 18.67 18.67 18.67 18.67 18.67 18.67 18.77	12.31 12.39 12.35 12.35 12.34 12.42 12.42 12.42 14.47 14.47 14.47 14.48 14.71 14.69 14.69 14.69 14.71 14.70 14.69 14.71 14.70 14.70 14.70 14.80 14.71 14.70 14.70 14.80 14.71 14.70 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.71 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70	13.43 13.28 13.27 13.37 13.28 13.37 13.28 13.37 13.28 13.49 13.47	13.27 13.28 13.40 13.30 13.30 13.30 13.30 13.30 13.30 13.30 13.30 17.80	14.44 14.30 14.31 14.43	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.38 14.37 15.79 14.29 15.27 15.79 14.29 15.92 15.92 15.92 15.93 15.95 15.95 15.95 15.95 15.95 15.95 15.95 15.96 15.97 15.87 15.81 15.85 15.87 15.87 15.87 15.87 15.87 15.81 15.81 15.81 15.81 15.85 15.85 15.85 15.85 15.87 15.87 15.87 15.87 15.88	14.89 14.89 14.89 14.89 14.81
	Tablet  Laptop  Laptop  Lid close  Laptop	260° 260° 260° 260° 260° 260° 260° 260°	16.40 16.33 16.37 16.37 16.37 16.37 16.37 16.37 16.37 16.37 16.30 16.37 16.37 16.30 16.37 16.30 16.31 16.41 120.91 120.91 120.91 120.92 120.97 120.90	12.15 12.21 12.27 12.27 12.27 12.27 12.27 12.27 12.28 12.28 12.38 12.39 12.30	12.34 12.42 12.42 12.39 12.39 12.44 18.84 18.84 18.84 18.85 18.85 18.85 18.85 18.85 18.85 18.85 18.85 18.87 18.87 18.87 18.77	12.31 12.39 12.39 12.39 12.39 12.39 12.42 12.42 14.73 14.89 12.30 14.62 14.67 14.67 14.67 14.67 14.67 14.71 14.71 14.71 14.71 14.67 14.70 14.88 14.71 14.71 14.71 14.71 14.71 14.71 14.71 14.71 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.80 14.70 14.70 14.70 14.80 14.70	13.43 13.26 13.37 13.37 13.37 13.37 13.37 13.37 13.37 13.41 13.41 20.82 20.82 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.95 20.97 20.77 20.86 20.89 20.90 20.77 20.90 20.77 20.90 20.77 20.90 20.77 20.90 20.80	13.27 13.28 13.40 13.30 13.43 17.82 17.84 17.78 17.78 17.89 17.89 17.84 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.89 17.80	14.44 14.30 14.43 14.31 14.43 14.43 14.43 14.44 14.37 20.83 20.83 20.95 20.95 20.95 20.97 20.97 20.97 20.97 20.97 20.97 20.97 20.98 20.88 20.91	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.33 14.35 14.35 15.79 14.28 15.79 14.28 15.89	14.89 14.89 14.89 14.78 14.81
	Tablet  Laptop  Laptop  Lid close  Laptop	260° 260° 260° 260° 260° 260° 260° 260°	16.40 16.33 16.32 16.33 16.32 16.37 16.37 16.37 16.41 20.91 20.91 20.91 20.92 20.80	12.15 12.21 12.27 12.27 12.27 12.25	12.34 12.42 12.29 12.29 12.29 12.29 12.24 11.8.64 118.76 118.76 118.75 118.75 118.77 118.78	12.31 12.39 12.35 12.35 12.35 12.35 12.35 12.35 12.35 12.35 12.42 14.87 14.88 12.30 14.82 14.87 14.88 14.87 14.88 14.87 14.88 14.77 14.67 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.87 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 14.71 14.70 14.89 18.71 18.81	13.43 13.26 13.37 13.37 13.38 13.37 13.38 13.38 13.31 13.41	13.27 13.28 13.49 13.40 13.30 13.43 13.43 13.43 17.78 17.780 17.780 17.88 17.88 17.89 17.88 17.89 17.89 17.89 17.78 17.78 17.78 17.78 17.79 17.7	14.44 14.30 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 14.43 16.43 17.20 18.30	14.29 14.37 14.38 14.38 14.38 14.38 14.38 14.38 14.38 15.74 15.79 14.28 15.92 15.92 15.93 15.93 15.97 15.97 15.97 15.98 15.99	14.89 14.89 14.89 14.89 14.81

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

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台灣檢驗科技股份有限公司



Page: 25 of 139

Antenna	Operation mode	Lid angle	802.11b	WLAN 802.11n(40M) 5.2G	WLAN 802.11ac(80M) 5.2G	WLAN 802.11ac(160M) 5.2G	WLAN 802.11n(40M) 5.3G	WLAN 802.11ac(80M) 5.3G	WLAN 802.11ac(80M) 5.6G	WLAN 802.11ac(160M) 5.6G	WLAN 802.11ac(80M) 5.8G	WLAN 802.11n(40M) 5.8G
	Lid close	0° 10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laptop	20° 30°	0.00 20.98	0.00 20.99	0.00 18.69	0.00 14.44	0.00 20.97	0.00 17.96	0.00 20.98	0.00 15.97	0.00 20.68	0.00 20.98
		25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Lid close	26° 27°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		28° 29°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		30°	20.96 20.82	20.84	18.47 18.66	14.34	20.80 20.89	17.78 17.83	20.85	15.92 15.78	20.53	20.84 20.88
		31° 32°	20.88	20.90 20.89	18.66 18.60 18.57	14.31 14.33 14.32	20.78	17.87	20.82 20.94 20.81	15.88	20.49 20.57	20.94
		33° 34°	20.77 20.82	20.88 20.88	18.57 18.62	14.32 14.39	20.95 20.80	17.88 17.93	20.81 20.83	15.78 15.81	20.52 20.64	20.78 20.89
		35°	20.88 20.86	20.79 20.88	18.55 18.63	14.36 14.25	20.90 20.91	17.74 17.76	20.92 20.83	15.83 15.76	20.61 20.46	20.79 20.78
		45° 55°	20.86	20.91	18.66	14.25 14.23 14.41	20.81	17.87	20.76	15.95	20.65	20.96
		65° 75°	20.80 20.82	20.89 20.81	18.49 18.53	14.41 14.29	20.78 20.80	17.75 17.80	20.95 20.79	15.81 15.81	20.60 20.50	20.83 20.83
	Laptop	85°	20.78	20.89	18.52	14.29 14.33	20.88	17.87	20.76	15.84	20.55	20.95
		95° 105°	20.82 20.90	20.90 20.93	18.62 18.66	14.26 14.35 14.26	20.85 20.82	17.77 17.75 17.76	20.95 20.86	15.81 15.79	20.60 20.57	20.89 20.81
		115°	20.95 20.83	20.93 20.86 20.89	18.59 18.53	14.26	20.88 20.78	17.76	20.86 20.79 20.82	15.81 15.88	20.64 20.61	20.94 20.82
		125° 135°	20.82 20.80	20.89 20.84	18.59	14.23 14.33 14.37	20.76	17.75 17.85 17.81	20.82	15.87 15.88	20.62 20.58	20.80
		145° 155°	20.79 20.88	20.79 20.78 20.91	18.54 18.52	14.37 14.24 14.33	20.82 20.78 20.90	17.89	20.90 20.79 20.92	15.94		20.79 20.81 20.81
		165° 175°	20.88	20.91	18 66	14.33	20.90 20.89	17.91	20.92 20.81	15.83 15.76	20.50 20.64 20.46	20.81 20.88
		185°	20.81 20.90	20.79 20.79	18.54 18.48	14.24 14.26	20.91	17.93 17.82	20.80	15.92	20.46 20.57	20.83
	Tablet	195° 205°	20.81 17.99	20.92 13.86	18.56 13.98	14.40 13.95	20.82 13.48	17.87 13.48	20.95 14.99	15.88 14.99	20.55 14.44	20.93 14.49
			20.86	20.83	18.54 18.48	14.38	20.86 20.87	17.83	20.93 20.83	15.91	20.55 20.54	20.78
	Laptop	196° 197°	20.77 20.90	20.77	18.59	14.22 14.22	20.75	17.76 17.92	20.94	15.79 15.81	20.59	20.86 20.91
	L	198° 199°	20.91 20.93 17.94	20.94 20.80	18.62 18.58	14.30 14.27	20.83 20.76	17.89 17.78	20.95 20.94	15.84 15.76	20.63 20.51	20.78 20.76
		200° 201°	17.94 17.96	13.71	13.80	13.90 13.90	13.26	13.43 13.39	14.82 14.82	14.95 14.89	14.22 14.36	14.35
		201° 202°	17.96 17.80	13.65 13.78	13.94 13.88	13.92	13.32 13.27	13.42	14.82 14.97	14.89 14.80	14.36 14.37	14.29 14.41
		203° 204°	17.81 17.91	13.67 13.75	13.87 13.90	13.74 13.79	13.32 13.45	13.30 13.40	14.78 14.80	14.94 14.85	14.29 14.29	14.45 14.30
		205° 215°	17.86 17.79	13.81	13.80 13.76	13.77 13.74	13.38	13.31	14.87 14.85	14.92 14.96	14.40 14.32	14.36 14.38
		215° 225°	17.79 17.85	13.76 13.74	13.76 13.81	13.75	13.40 13.43	13.33 13.41	14.85 14.89	14.96 14.86	14.26	14.34
		235° 245°	17.78 17.87	13.81 13.73	13.84 13.93	13.87 13.91	13.31 13.31	13.30 13.36	14.85 14.77	14.85 14.80	14.29 14.35	14.42 14.46
	Tablet	255°	17.90	13.64 13.81	13.84 13.95	13.86 13.83	13.41 13.40	13.33	14.79 14.85	14.95 14.95	14.33 14.36	14.35 14.42
		265° 275°	17.91 17.92	13.70	13.89	13.88	13.42	13.33 13.46	14.88	14.81	14.30	14.29
		285° 295°	17.84 17.88	13.66 13.76	13.89 13.83	13.73 13.84	13.32 13.42	13.31 13.36	14.88 14.92	14.97 14.83	14.38 14.23	14.32 14.37 14.37
		305°	17.84 17.96	13.83	13.96	13.91	13.42	13.27	14.96	14.95 14.81	14.36	14.37
		315° 325°	17.96 17.93	13.75 13.69	13.96 13.83	13.78 13.93	13.38 13.35	13.45 13.35	14.91 14.84	14.85	14.32 14.38	14.47 14.34
		335° 345°	17.86 17.86	13.83 13.84	13.82 13.91	13.78 13.80	13.37 13.34	13.35 13.29	14.88 14.89	14.88 14.92	14.26 14.25	14.44 14.31 14.28
		355°	17.90	13.70	13.81	13.90	13.36	13.37	14.79	14.79	14.27	14.28
Aux		360° 350°	17.94 17.85	13.80 13.68	13.92 13.78	13.76 13.82	13.32 13.29	13.44 13.41	14.87 14.86	14.85 14.80	14.31 14.27	14.42 14.41
, and		340° 330°	17.79 17.80	13.71 13.73	13.77 13.96	13.92 13.85	13.44 13.28	13.40 13.41	14.79 14.77	14.83 14.87	14.33 14.35	14.30 14.35
		320°	17.78	13.80	13.78	13.84	13.45	13.30	14.97	14.77	14.41	14.41
		310° 300°	17.83 17.80	13.68 13.64	13.92 13.84	13.90 13.80	13.37 13.31	13.44 13.40	14.93 14.89	14.84 14.78	14.31 14.29	14.38 14.31
	Tablet	290° 280°	17.95 17.93	13.79 13.73	13.80 13.86	13.90 13.88	13.30 13.39	13.32 13.30	14.85 14.79	14.89 14.87	14.27 14.28	14.33 14.32
	Habita	270° 260°	17.81 17.85	13.82 13.65	13.77 13.94	13.86	13.40 13.32	13.29 13.44	14.84 14.78	14.95 14.88	14.25 14.25	14.42 14.39
		260° 250°	17.85 17.80 17.91	13.65 13.81 13.83	13.94 13.77 13.95	13.77 13.76 13.83	13.32 13.41 13.31	13.44 13.45 13.30	14.78 14.89 14.86	14.88 14.86 14.86	14.25 14.36 14.35	14.30 14.42
		240° 230°	17.83	13.75	13.82	13.83	13.36	13.41	14.87	14.90	14.40	14.29
		220°	17.87 17.94	13.68 13.74	13.81 13.88	13.75 13.77	13.42 13.44	13.45 13.27	14.86 14.80	14.84 14.93	14.41 14.34	14 43
		210° 200° 190°	17.94 17.81 20.94	13.74 13.72 20.95	13.81 18.56	13.79 14.41	13.30 20.80	13.40 17.84	14.89 20.83	14.84 15.83	14.31 20.59	14.28 14.28 20.93
	Laptop	195°	20.79 20.79 17.93	20.96 20.78 13.73	18.56	14.25	20.80	17.91	20.83 20.85 14.93	15.81	20.51	20.93 20.91 14.35
	Tablet	200° 199°	17.93 20.86	13.73 20.93	13.90 18.65	13.87	13.34	13.34 17.76	14.93 20.89	14.87 15.93	14.39 20.49	14.35 20.90
		199° 198° 197°	20.86 20.88 20.93	20.93 20.97 20.92	18.52 18.65	14.28 14.39 14.40	20.87 20.84 20.89	17.76 17.93 17.76	20.82 20.76	15.95 15.85	20.49 20.54 20.53	20.90 20.79 20.78
		196°	20.77	20.86	18.49	14.38	20.78	17.93	20.90	15.94	20.65	20.90
		195° 194°	20.79 20.79	20.87 20.88	18.60 18.58	14.41 14.24	20.84 20.82	17.89 17.92	20.89 20.90	15.78 15.85	20.55 20.52	20.80 20.93
	l .	193°	20.89	20.97	18.65	14.23	20.80		20.76	15.92	20.51	
1			20.04	20.00	10 ***	44.00		17.87	20.00			20.89
		192° 191°	20.81 20.95	20.96 20.90	18.50 18.54	14.36 14.24	20.85 20.88	17.82 17.89	20.96 20.77	15.86 15.77	20.48 20.55	20.94 20.77
		192° 191° 190°	20.81 20.95 20.88	20.90 20.90	18.54 18.61	14.24 14.27	20.85 20.88 20.90	17.82 17.89 17.92	20.77	15.77 15.85 15.79	20.48 20.55 20.50	20.94 20.77 20.77
		192° 191° 190° 180° 170°	20.81 20.95 20.88 20.90 20.95	20.90 20.90 20.88 20.88	18.54 18.61 18.54 18.53	14.24 14.27 14.24 14.25	20.85 20.88 20.90 20.93 20.92	17.82 17.89 17.92 17.89 17.91	20.77 20.80 20.80 20.84	15.77 15.85 15.79 15.91	20.48 20.55 20.50 20.57 20.49	20.94 20.77 20.77 20.94 20.88
	Laptop	192° 191° 190° 180° 170° 160°	20.81 20.95 20.88 20.90 20.95 20.86 20.89	20.90 20.90 20.88 20.88 20.77 20.93	18.54 18.61 18.54 18.53 18.54 18.61	14.24 14.27 14.24 14.25 14.38 14.30	20.85 20.88 20.90 20.93 20.92 20.94 20.83	17.82 17.89 17.92 17.89 17.91 17.92 17.88	20.77 20.80 20.80 20.84 20.80 20.79	15.77 15.85 15.79 15.91 15.93 15.94	20.48 20.55 20.50 20.57 20.49 20.58 20.47	20.94 20.77 20.77 20.94 20.88 20.89 20.83
	Laptop	192* 191* 190* 180* 170* 160* 150*	20.81 20.95 20.88 20.90 20.95 20.86 20.89 20.83	20.90 20.90 20.88 20.88 20.77 20.93 20.87	18.54 18.61 18.54 18.53 18.54 18.61 18.63	14.24 14.27 14.24 14.25 14.38 14.30 14.38	20.85 20.88 20.90 20.93 20.92 20.94 20.83 20.75	17.82 17.89 17.92 17.89 17.91 17.92 17.88 17.76	20.77 20.80 20.80 20.84 20.80 20.79 20.78	15.77 15.85 15.79 15.91 15.93 15.94 15.79	20.48 20.55 20.55 20.57 20.49 20.58 20.47 20.51	20.94 20.77 20.77 20.94 20.88 20.89 20.83 20.93
	Laptop	192" 191" 190" 180" 170" 160" 150" 140" 130"	20.81 20.95 20.88 20.90 20.95 20.86 20.89 20.83 20.91 20.89	20.90 20.90 20.88 20.88 20.77 20.93 20.87 20.87 20.89	18.54 18.61 18.54 18.53 18.54 18.61 18.63 18.63	14.24 14.27 14.24 14.25 14.38 14.30 14.38 14.40	20.85 20.89 20.90 20.93 20.92 20.94 20.83 20.75 20.83 20.81	17.82 17.89 17.92 17.89 17.91 17.91 17.92 17.88 17.78 17.89	20.77 20.80 20.80 20.84 20.80 20.79 20.78 20.78	15.77 15.85 15.79 15.91 15.93 15.94 15.79 15.88 15.77	20.48 20.55 20.50 20.57 20.49 20.58 20.47 20.51 20.62 20.62	20.94 20.77 20.77 20.94 20.88 20.89 20.83 20.93 20.93 20.94
	Laptop	192" 191" 190" 180" 170" 160" 150" 140" 130" 120"	20.81 20.95 20.88 20.90 20.95 20.86 20.89 20.83 20.91 20.89 20.89 20.79	20.90 20.90 20.88 20.88 20.77 20.93 20.87 20.87 20.89 20.82 20.95	18.54 18.61 18.54 18.53 18.54 18.61 18.63 18.63 18.69	14.24 14.27 14.24 14.25 14.38 14.30 14.38 14.26 14.40	20.85 20.86 20.99 20.99 20.92 20.94 20.83 20.75 20.83 20.75 20.83	17.82 17.89 17.92 17.89 17.91 17.92 17.88 17.76 17.89 17.85 17.89	20.77 20.80 20.80 20.84 20.80 20.79 20.78 20.78 20.77 20.81	15.77 15.85 15.79 15.91 15.93 15.94 15.79 15.88 15.77	20.48 20.55 20.50 20.57 20.49 20.58 20.47 20.51 20.62 20.62 20.62	20.94 20.77 20.77 20.94 20.88 20.89 20.83 20.93 20.93 20.94 20.94
	Laptop	192" 191" 190" 180" 170" 160" 150" 140" 120" 110" 100"	20.81 20.95 20.88 20.90 20.95 20.86 20.83 20.83 20.91 20.89 20.79 20.79	20.90 20.90 20.88 20.88 20.77 20.93 20.87 20.89 20.82 20.95 20.82 20.96 20.88	18.54 18.61 18.54 18.53 18.54 18.61 18.63 18.58 18.58 18.59 18.67	14, 24 14, 27 14, 26 14, 26 14, 39 14, 30 14, 30 14, 40 14, 40 14, 24 14, 24	20.85 20.88 20.99 20.90 20.92 20.94 20.63 20.75 20.83 20.75 20.83 20.91 20.91 20.91 20.91	17.82 17.89 17.92 17.99 17.91 17.91 17.92 17.86 17.76 17.85 17.85 17.85 17.75	20.77 20.80 20.80 20.84 20.80 20.79 20.78 20.78 20.77 20.77 20.81 20.94 20.94	15.77 15.85 15.79 15.91 15.93 15.94 15.79 15.88 15.77 15.78	20.48 20.55 20.55 20.50 20.57 20.49 20.57 20.47 20.51 20.62 20.62 20.62 20.66 20.46 20.45	20.94 20.77 20.77 20.89 20.89 20.83 20.93 20.93 20.94 20.94 20.92 20.87 20.87
	Laptop	192" 191" 190" 180" 180" 170" 160" 150" 140" 130" 120" 110" 100" 90" 80" 70"	20.81 20.95 20.88 20.99 20.95 20.85 20.89 20.83 20.91 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.91 20.89	20.90 20.90 20.88 20.88 20.77 20.93 20.87 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89	18.54 18.61 18.54 18.53 18.54 18.61 18.63 18.63 18.58 18.57 18.66 18.57	14, 24 14, 27 14, 26 14, 26 14, 38 14, 38 14, 38 14, 28 14, 24 14, 24 14, 24 14, 24 14, 37 14, 37	20.85 20.88 20.99 20.90 20.90 20.90 20.93 20.94 20.83 20.75 20.83 20.81 20.94 20.94 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.90	17.82 17.88 17.92 17.92 17.91 17.91 17.92 17.86 17.76 17.89 17.85 17.94 17.75 17.86 17.77 17.86	20.77 20.80 20.80 20.84 20.86 20.86 20.79 20.78 20.78 20.77 20.81 20.94 20.92 20.79 20.94	15.77 15.85 15.79 15.91 15.93 15.94 15.79 15.88 15.77 15.78 15.78 15.78	20.48 20.55 20.55 20.57 20.57 20.49 20.49 20.49 20.47 20.51 20.62 20.62 20.66 20.46 20.53 20.53 20.53	20.94 20.77 20.77 20.97 20.88 20.88 20.83 20.83 20.81 20.94 20.82 20.82 20.87
	Laptop	192" 191" 190" 180" 180" 170" 160" 150" 140" 130" 120" 110" 100" 90" 80" 70" 60"	20.81 20.95 20.96 20.99 20.99 20.99 20.89 20.89 20.91 20.79 20.79 20.62 20.61 20.62 20.61 20.62 20.61	20.90 20.90 20.88 20.88 20.87 20.77 20.99 20.67 20.67 20.89 20.62 20.89 20.80 20.80 20.80 20.80 20.80 20.80 20.80	18.54 18.61 18.53 18.53 18.53 18.65 18.67 18.60 18.60 18.50 18	14, 24 14, 27 14, 24 14, 25 14, 39 14, 39 14, 39 14, 39 14, 40 14, 26 14, 26 14, 27 14, 36 14, 37 14, 28 14, 37 14, 28 14, 31	20.85 20.89 20.99 20.99 20.99 20.94 20.85 20.75 20.81 20.81 20.92 20.94 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99	17.82 17.89 17.92 17.99 17.91 17.91 17.92 17.89 17.89 17.85 17.85 17.94 17.75 17.85 17.75 17.87	20.77 20.80 20.80 20.84 20.84 20.87 20.87 20.78 20.77 20.81 20.77 20.81 20.99 20.99 20.98 20.98 20.98	15.77 15.85 15.79 15.91 15.91 15.93 15.94 15.77 15.78 15.78 15.78 15.78 15.78 15.78 15.78 15.88	20.48 20.55 20.57 20.57 20.49 20.49 20.47 20.51 20.62 20.47 20.51 20.62 20.62 20.62 20.66 20.46 20.53 20.53 20.59	20.94 20.77 20.77 20.77 20.94 20.88 20.89 20.89 20.81 20.91 20.81 20.91 20.91 20.97 20.97 20.97 20.97 20.90 20.87 20.99
	Laptop	192" 191" 190" 180" 180" 170" 160" 150" 140" 130" 120" 110" 100" 90" 70" 60" 50" 40"	20.81 20.95 20.88 20.90 20.95 20.89 20.95 20.89 20.89 20.89 20.83 20.91 20.89 20.91 20.89 20.92 20.81 20.92 20.81 20.92 20.83	20.90 20.90 20.88 20.88 20.77 20.59 20.89 20.77 20.59 20.89 20.80	18.54 18.61 18.51 18.53 18.53 18.54 18.61 18.65 18.60	14, 24 14, 27 14, 28 14, 27 14, 28 14, 29 14, 30 14, 30 14, 30 14, 30 14, 30 14, 30 14, 30 14, 31 14, 31 14, 31 14, 31 14, 31 14, 31 14, 31 14, 31 14, 31 14, 31	20.85 20.88 20.99 20.99 20.99 20.99 20.94 20.83 20.75 20.81 20.81 20.90 20.91 20.91 20.91 20.91 20.90 20.91 20.91 20.91 20.91 20.91 20.91 20.91 20.91 20.91 20.91 20.91 20.91 20.91	17.82 17.89 17.92 17.99 17.91 17.91 17.91 17.89 17.89 17.89 17.85 17.85 17.85 17.85 17.75 17.87 17.75 17.87 17.77	20.77 20.80 20.80 20.84 20.84 20.80 20.79 20.79 20.78 20.77 20.77 20.91 20.92 20.79 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93	15.77 15.86 15.79 15.91 15.91 15.93 15.94 15.98 15.98 15.77 15.88 15.78 15.88 15.78 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88 15.88	20.48 20.55 20.57 20.57 20.57 20.49 20.49 20.47 20.41 20.62 20.62 20.62 20.62 20.63 20.53 20.53 20.59 20.59 20.69	20.94 20.77 20.77 20.77 20.77 20.94 20.89 20.89 20.89 20.93 20.91 20.94 20.94 20.97 20.97 20.97 20.90 20.97 20.90 20.97 20.90 20.97 20.99
		192" 191" 190" 180" 180" 170" 180" 150" 140" 130" 120" 110" 100" 90" 60" 70" 60" 40" 30"	20.81 20.85 20.88 20.99 20.99 20.95 20.96 20.95 20.99 20.83 20.91 20.97 20.92 20.81 20.92 20.81	20.99 20.99 20.88 20.77 20.99 20.89 20.77 20.99 20.87 20.89 20.87 20.89 20.80	18.54 18.01 18.55 18.55 18.55 18.54 18.60 18.60 18.60 18.60 18.60 18.50 18.60 18.50 18	14, 284 14, 27 14, 26 14, 26 14, 36 14, 38 14, 38 14, 38 14, 28 14, 40 14, 24 14, 24 14, 26 14, 26 14, 26 14, 26 14, 26 14, 26 14, 26 14, 26 14, 26 14, 27 14, 28 14, 37 14, 28 14, 37 14, 48 14, 37 14, 48 14, 37 14, 48 14, 37 14, 48 1	20.85 20.89 20.99 20.99 20.99 20.99 20.94 20.83 20.75 20.63 20.91 20.91 20.91 20.91 20.92 20.91 20.92 20.93	17.82 17.89 17.92 17.99 17.91 17.91 17.92 17.80 17.76 17.86 17.76 17.86 17.75	20.77 20.80 20.80 20.84 20.84 20.85 20.77 20.77 20.81 20.97 20.77 20.81 20.92 20.93 20.96 20.82 20.98 20.98 20.98	15.77 15.86 15.79 15.91 15.91 15.91 15.94 15.79 15.88 15.77 15.78 15.78 15.78 15.78 15.88 15.77 15.78 15.88 15.95 15.88 15.95 15.88 15.80 15.80 15.80	20.48 20.55 20.57 20.57 20.49 20.69 20.47 20.49 20.51 20.62 20.62 20.62 20.66 20.63 20.63 20.63 20.63 20.60	20.94 20.77 20.77 20.77 20.94 20.88 20.89 20.89 20.83 20.93 20.91 20.94 20.92 20.97 20.90 20.90 20.97 20.90
	Lid close	192* 1911 190* 190* 190* 170* 160* 1550* 140* 120* 110* 100* 90* 80* 70* 60* 50* 40* 30* 20* 20* 25*	20.81 20.95 20.86 20.89 20.90 20.90 20.95 20.86 20.88 20.89 20.83 20.91 20.89 20.92 20.91 20.92 20.91 20.92 20.91 20.92 20.91 20.92 20.91 20.92 20.91 20.92 20.91 20.92 20.91 20.92 20.91 20.93	20.90 20.90 20.88 20.88 20.77 20.50 20.57 20.50 20.50 20.90	18.54 18.61 18.51 18.51 18.55 18.50 18.50 18.50 18.50 18.50 18.50 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60	14, 24 14, 27 14, 28 14, 29 14, 29 14, 30 14, 30 14, 30 14, 30 14, 30 14, 30 14, 30 14, 30 14, 31 14, 32 14, 31 14, 32 14, 32 14, 31 14, 32 14, 31 14, 32 14, 32 14, 42 14, 43 14, 43 14, 43 14, 43 14, 43 14, 44 14, 44 14, 44 14, 44 14, 45 14, 46 14, 47 14, 48 14	20.86 20.88 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.80 20.83 20.83 20.83 20.83 20.83 20.83 20.91 20.92 20.90	17.82 17.89 17.92 17.92 17.99 17.91 17.92 17.92 17.93 17.93 17.94 17.78 17.78 17.78 17.79	20.77 20.80 20.80 20.80 20.84 20.80 20.80 20.87 20.77 20.77 20.81 20.77 20.81 20.94 20.82 20.99 20.80	15.77 15.86 15.79 15.91 15.91 15.93 15.94 15.94 15.94 15.95 15.88 15.77 15.78 15.78 15.78 15.89 15.89 15.80 15.80 15.80 15.80 15.80 15.80 15.80	20.48 20.55 20.55 20.57 20.57 20.49 20.49 20.59 20.59 20.57 20.49 20.69 20.69 20.62 20.62 20.62 20.65 20.45 20.53	20.94 20.77 20.77 20.77 20.94 20.94 20.98 20.98 20.98 20.98 20.98 20.98 20.98 20.97 20.97 20.97 20.97 20.97 20.97 20.97 20.97 20.97 20.99
		192* 1911 190* 190* 190* 170* 160* 1550* 140* 120* 110* 100* 90* 80* 70* 60* 50* 40* 30* 20* 20* 22* 30* 22*	20.81 20.95 20.86 20.89 20.90 20.90 20.95 20.86 20.89 20.89 20.83 20.91 20.90	20.90 20.90 20.88 20.88 20.77 20.53 20.57 20.53 20.50 20.62 20.92 20.92 20.93 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.85 20.77 20.99 20.90	18.54 18.61 18.51 18.51 18.55 18.55 18.54 18.51 18.61 18.61 18.65 18.67 18.60 18.69 18.69 18.69 18.69 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60	14. 28 14.27 14.27 14.28 14.29 14.29 14.20	20.85 20.89 20.90	17.82 17.89 17.92 17.99 17.90 17.91 17.91 17.91 17.78	20.77 20.80 20.80 20.84 20.80 20.84 20.97 20.77 20.77 20.81 20.77 20.81 20.94 20.82 20.79 20.80 20.80 20.90	15.77 15.86 15.79 15.91 15.91 15.91 15.93 15.94 15.94 15.94 15.97 15.77 15.77 15.78 15.78 15.78 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80	20.48 20.55 20.57 20.57 20.57 20.47 20.48 20.49 20.47 20.51 20.62 20.62 20.62 20.62 20.62 20.65	20.94 20.77 20.77 20.77 20.94 20.86 20.88 20.83 20.93 20.91 20.91 20.92 20.92 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.95 20.95 20.95 20.95 20.95 20.96
	Lid close	192" 190" 190" 190" 190" 170" 160" 150" 150" 150" 150" 150" 150" 150" 15	20.81 20.95 20.86 20.89 20.90 20.90 20.95 20.80 20.90 20.95 20.80	20.90 20.90 20.80 20.80 20.80 20.87 20.87 20.87 20.89 20.80 20.90	18. 54 18. 61 18. 61 18. 54 18. 55 18. 55 18. 55 18. 55 18. 55 18. 57 18. 60 18	14. 28 14.27 14.28 14.29 14.29 14.20	20.88 20.98 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.90 20.91	17.82 17.89 17.90 17.90 17.90 17.90 17.80	20.77 20.80 20.80 20.84 20.84 20.72 20.72 20.73 20.77 20.87 20.77 20.81 20.94 20.92 20.79 20.81 20.98 20.99 20.80 20.99 20.90	15.77 15.85 15.79 15.94 15.94 15.94 15.94 15.97 15.97 15.77 15.77 15.78 15.78 15.88 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80 15.80	20.48   20.55   20.55   20.55   20.55   20.57	20.94 20.77 20.77 20.77 20.94 20.94 20.98 20.83 20.83 20.83 20.81 20.91 20.91 20.95 20.97 20.90 20.97 20.90 20.97 20.90
	Lid close	192* 1901* 1900* 1800* 1700* 1600* 1700* 1600* 1	20.81 20.95 20.86 20.80 20.80 20.80 20.80 20.80 20.80 20.80 20.80 20.80 20.80 20.80 20.80 20.81 20.81 20.81 20.81 20.81 20.81 20.83 20.81 20.83	20.90 20.90 20.80 20.80 20.87 20.87 20.87 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.89 20.80 20.87 20.77 30 20.87 20.90 20.	18. 54 18. 61 18. 61 18. 50 18	14. 24 14. 27 14. 26 14. 28 14. 28 14. 38 14. 38 14. 38 14. 29 14. 40 14. 40 14. 24 14. 24 14. 39 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 14. 40 16	20.88 20.88 20.98 20.90	17.82 17.89 17.90	20.77 20.80 20.80 20.84 20.85 20.85 20.77 20.77 20.81 20.77 20.81 20.92 20.93 20.94 20.82 20.93 20.96 20.86 20.86 20.86 20.86 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.80	15.77 15.86 15.79 15.91 15.93 15.93 15.93 15.93 15.57 15.57 15.57 15.77 15.78 15.78 15.78 15.78 15.78 15.78 15.88 15.91 15.80 15.81 15.80 16.80	20.48   20.55   20.55   20.55   20.55   20.55   20.57	20.94 20.77 20.77 20.77 20.94 20.94 20.93 20.93 20.93 20.93 20.91 20.94 20.92 20.92 20.93
	Lid close Laptop	192   192   1931   1931   1931   1931   1931   1931   1931   1932	20.81 20.95 20.88 20.90	20.90 20.90 20.90 20.90 20.90 20.90 20.97 20.97 20.97 20.90 20.87 20.80	18.54 18.67 18.67 18.65 18.67 18.65 18.60	14. 28 14. 27 14. 28 14. 28 14. 27 14. 28 14	20.85 20.89 20.90	17.82 17.89 17.92 17.90 17.92 17.90 17.91 17.92 17.90 17.90 17.90 17.90 17.90 17.80 17.80 17.80 17.80 17.80 17.80 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.78 17.87 17.78 17.80 17.81 17.82 17.83 17.83 17.83 17.83 17.83 17.83 17.83 17.83 17.83 17.83 17.83 18.83	20.77 20.60 20.60 20.60 20.60 20.70 20.78 20.78 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.77 20.79 20	15.77 15.86 15.79 15.80 15.79 15.80 15.79 15.80 15.79 15.80 15.77 15.77 15.70 15.80 15.70 15.70 15.80 15.70 15.80	20.48   20.55   20.55   20.55   20.55   20.55   20.55   20.57	20.94 20.77 20.77 20.77 20.94 20.88 20.88 20.81 20.81 20.81 20.91 20.81 20.91 20.82 20.87
	Lid close	192   192   1931   1931   1931   1931   1931   1931   1937	20.81 20.95 20.86 20.86 20.86 20.86 20.86 20.86 20.86 20.86 20.86 20.87	20.90 20.90 20.90 20.90 20.90 20.90 20.97 20.97 20.97 20.90 20.87 20.80	18.54 18.61 18.51 18.51 18.55 18.55 18.55 18.55 18.50 18.60	14. 28 14. 27 14. 28 14. 28 14. 27 14. 28 14	20.88 20.89 20.99	17 82 17 88	20.77 20.80 20.80 20.80 20.80 20.80 20.80 20.78 20.78 20.78 20.77 20.81 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.90	15.77 15.86 15.79 15.97 15.91 15.91 15.91 15.91 15.92 15.98 15.77 15.78 15.78 15.78 15.78 15.78 15.78 15.89 15.80	20.48   20.55   20.55   20.55   20.55   20.55   20.55   20.57	20.94 20.77 20.77 20.77 20.94 20.94 20.98 20.89 20.83 20.83 20.93 20.91 20.91 20.92 20.97
	Lid close Laptop	1902 1901 1907 1907 1907 1907 1907 1907 1907	20.81 20.95 20.86 20.80 20.90	20.90 20.90	18.54 18.67 18.67 18.65 18.60	14. 28 14.27 14.28 14.29 14.29 14.29 14.20	20.85 20.89 20.99 20.90	17.82 17.89 17.90	20.77 20.60 20.60 20.60 20.60 20.60 20.70 20.78 20.78 20.77 20.61 20.77 20.61 20.78 20.78 20.77 20.61 20.78 20.78 20.77 20.71 20.61 20.62 20.79 20.79 20.79 20.79 20.79 20.79 20.79 20.79 20.79 20.79 20.79 20.79 20.79 20.80	15.77 15.86 15.79 15.80 15.79 15.80 15.79 15.80 15.79 15.80 15.77 15.80 15.77 15.70 15.80 15.77 15.80	20.48   20.55   20.55   20.55   20.55   20.55   20.55   20.55   20.57	20.94 20.77 20.77 20.77 20.94 20.88 20.88 20.81 20.81 20.81 20.91 20.81 20.91 20.81 20.92 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.80
	Lid close Laptop	192   192   1931   1931   1931   1931   1931   1931   1937	20.81 20.95 20.86 20.86 20.86 20.86 20.86 20.86 20.86 20.86 20.86 20.87	20.90 20.90 20.90 20.90 20.90 20.90 20.97 20.97 20.97 20.90 20.87 20.80	18.54 18.61 18.51 18.51 18.55 18.55 18.55 18.55 18.50 18.60	14. 28 14. 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 28 27 14. 29 14.	20.88 20.89 20.99	17.82 17.89 17.92 17.92 17.93 17.94 17.78 17.89 17.80 10.00	20.77 20.80 20.80 20.80 20.80 20.80 20.80 20.78 20.78 20.78 20.77 20.81 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.99 20.90	15.77 15.86 15.79 15.91 15.91 15.91 15.91 15.91 15.92 15.92 15.77 15.78 15.78 15.78 15.78 15.78 15.78 15.89 15.80	20.48   20.55   20.55   20.55   20.55   20.57   20.57   20.47   20.48   20.47   20.48   20.47   20.47   20.51   20.62   20.62   20.62   20.62   20.65   20.65   20.55	20.94 20.77 20.77 20.77 20.94 20.94 20.98 20.89 20.83 20.83 20.93 20.91 20.91 20.92 20.97

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Page: 26 of 139

### 5.5 triggering verification for power reduction

The device is a convertible laptop computer with WLAN/BT feature.

For the verification testing of power reduction mechanisms, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

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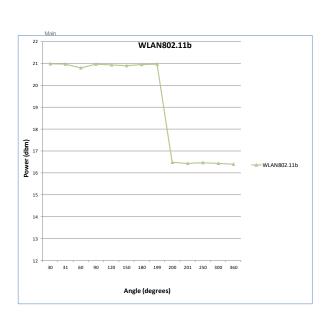


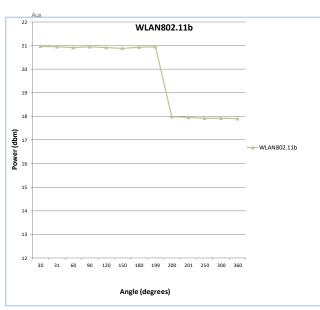
Page: 27 of 139

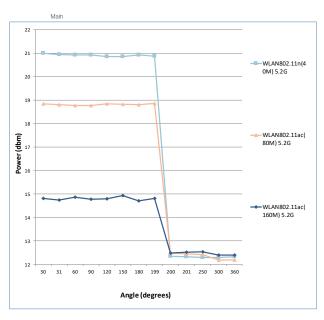
#### Results and conclusion

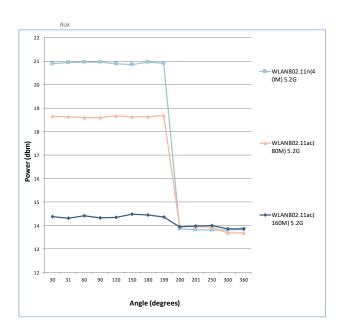
The measured output power versus lid angle is tabulated in the following table, and the triggering verification complies with the device mode / power level declared by the manufacturer.

#### **Verification Testing of Power**









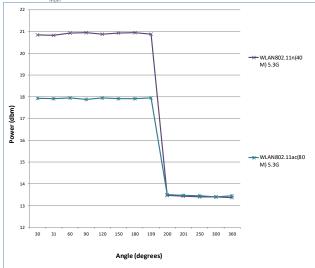
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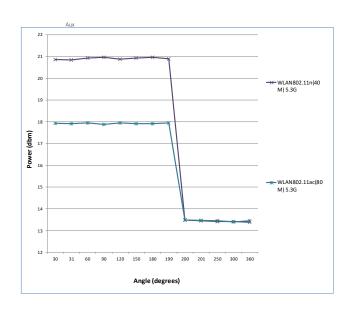
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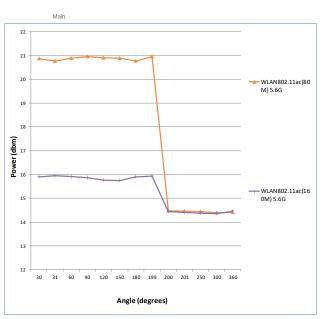


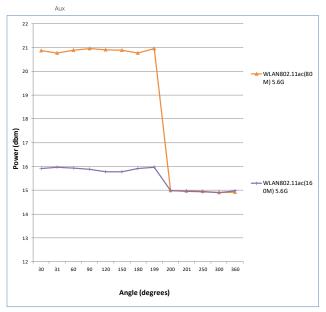
Page: 28 of 139











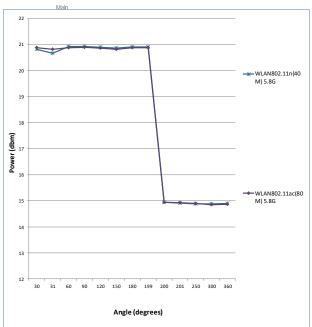
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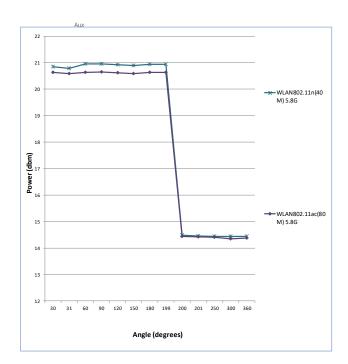
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Page: 29 of 139





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Page: 30 of 139

#### **Test limit**

#### § 2.1093(d)(1)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

#### § 1.1310(a)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

#### § 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits. § 1.1310(c)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatialaverage SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

#### Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized 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 Std C95.1-1992, copyright 1992 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 Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5, copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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Page: 31 of 139

on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in Section 4.1 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1).

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

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Page: 32 of 139

Frequency	Electric field	Magnetic field	Power	Averaging
range (MHz)	strength (V/m)	strength (A/m)	density (mW/cm <sup>2</sup> )	time (minutes)
	(i) Limits for Oc	cupational/Controlled Exp	posure	
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500- 100,000			5	<6
	(ii) Limits for Genera	l Population/Uncontrolle	d Exposure	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500- 100,000			1.0	<30

f = frequency in MHz. \* = Plane-wave equivalent power density. Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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Page: 33 of 139

### **MAXIMUM OUTPUT POWER**

#### 6.1 **WLAN**

#### Notahook mada

Notebook mode	<u> </u>					
			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		21.00	20.95
	802.11b	6	2437	1Mbps	21.00	20.87
		11	2462		21.00	20.99
		1	2412		20.00	19.88
	802.11g	6	2437	6Mbps	21.00	20.92
		11	2462		18.50	18.44
	802.11n20-HT0	1	2412	MCS0	20.00	19.96
		6	2437		21.00	20.89
2.45GHz		11	2462		18.50	18.43
2.430112		1	2412		20.00	19.89
	802.11ax20-HE0	6	2437	MCS0	21.00	20.91
		11	2462		18.50	18.42
		3	2422		16.00	15.98
	802.11n40-HT0	6	2437	MCS0	21.00	20.86
		9	2452		16.00	15.97
		3	2422		16.00	15.92
	802.11ax40-HE0	6	2437	MCS0	21.00	20.88
		9	2452		16.00	15.85

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Page: 34 of 139

			<u>Main</u>	1		
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		20.00	19.98
	802.11a	40	5200	GMbps	21.00	20.98
	802.11a	44	5220	6Mbps	21.00	20.95
		48	5240	]	21.00	20.99
		36	5180		20.00	19.94
	000 44=00 LITO	40	5200	MCS0	21.00	20.84
	802.11n20-HT0	44	5220		21.00	20.91
		48	5240		21.00	20.85
		36	5180		20.00	19.78
5.15-5.25 GHz	802.11ax20-HE0	40	5200	MCS0	21.00	20.86
5.15-5.25 GHZ	802.11ax20-HE0	44	5220	IVICSU	21.00	20.91
		48	5240		21.00	20.93
	802.11n40-HT0	38	5190	MCS0	18.25	18.11
	ου2. I III <del>4</del> U-ΠΤ	46	5230	IVICSU	21.00	20.95
	802.11ax40-HE0	38	5190	MCS0	18.25	18.19
	002.118X4U-FEU	46	5230	IVICSU	21.00	20.89
	802.11ac80-VHT0	42	5210	MCS0	19.00	18.87
	802.11ax80-HE0	42	5210	MCS0	19.00	18.93
	802.11ac160-VHT0	50	5250	MCS0	15.00	14.89
	802.11ax160-HE0	50	5250	MCS0	15.00	14.93

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Page: 35 of 139

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		21.00	20.97
	802.11a	56	5280	6Mbps	21.00	20.98
	002.11a	60	5300	Olvibps	21.00	20.94
		64	5320		21.00	20.93
		52	5260	]	21.00	20.88
	802.11n20-HT0	56	5280	MCS0	21.00	20.91
		60	5300		21.00	20.92
		64	5320		21.00	20.88
5.25-5.35 GHz		52	5260		21.00	20.85
3.23-3.33 GHZ	802.11ax20-HE0	56	5280	MCS0	21.00	20.92
	002.11ax20-11L0	60	5300	IVICOU	21.00	20.91
		64	5320		21.00	20.86
	802.11n40-HT0	54	5270	MCS0	21.00	20.96
	002.111 <del>14</del> 0-F110	62	5310	IVICSU	18.00	17.94
	802.11ax40-HE0	54	5270	MCS0	21.00	20.93
	002.11aX40-⊓EU	62	5310	IVICSU	18.00	17.89
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.96
	802.11ax80-HE0	58	5290	MCS0	18.00	17.94

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Page: 36 of 139

			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		21.00	20.85
	802.11a	120	5600	6Mbps	21.00	20.89
		140	5700	]	20.75	20.66
		100	5500		21.00	20.89
	802.11n20-HT0	120	5600	MCS0	21.00	20.93
		140	5700		20.75	20.71
		100	5500		21.00	20.93
	802.11ax20-HE0	120	5600	MCS0	21.00	20.83
		140	5700		20.75	20.68
		102	5510	MCS0	20.25	20.21
	802.11n40-HT0	118	5590		21.00	20.89
	002.111140-1110	134	5670		21.00	20.97
5.6GHz		142	5710		21.00	20.98
		102	5510		20.25	20.18
	802.11ax40-HE0	118	5590	MCS0	21.00	20.93
	002.11ax40-11L0	134	5670	IVICOU	21.00	20.87
		142	5710		21.00	20.93
		106	5530		19.00	18.97
	802.11ac80-VHT0	122	5610	MCS0	21.00	20.92
		138	5690		21.00	20.98
		106	5530		19.25	19.17
	802.11ax80-HE0	122	5610	MCS0	21.00	20.93
		138	5690		21.00	20.87
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.95
	802.11ax160-HE0	114	5570	MCS0	16.00	15.92

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Page: 37 of 139

			<u>Main</u>			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		21.00	20.83
	802.11a	157	5785	6Mbps	21.00	20.79
		165	5825	1	21.00	20.88
		149	5745	MCS0	21.00	20.91
	802.11n20-HT0	157	5785		21.00	20.79
		165	5825		21.00	20.84
		149	5745		21.00	20.91
5.8GHz	802.11ax20-HE0	157	5785	MCS0	21.00	20.88
		165	5825		21.00	20.84
	802.11n40-HT0	151	5755	MCS0	21.00	20.89
	002.111140-1110	159	5795	IVICSU	21.00	20.96
	802.11ax40-HE0	151	5755	MCS0	21.00	20.81
	002.11ax40-DEU	159	5795		21.00	20.91
	802.11ac80-VHT0	155	5775	MCS0	21.00	20.92
	802.11ax80-HE0	155	5775	MCS0	21.00	20.78

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Page: 38 of 139

	Aux									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		1	2412		21.00	20.84				
	802.11b	6	2437	1Mbps	21.00	20.98				
		11	2462		21.00	20.88				
	802.11g	1	2412		19.75	19.72				
		6	2437	6Mbps	21.00	20.89				
		11	2462		18.75	18.73				
		1	2412	MCS0	19.75	19.68				
	802.11n20-HT0	6	2437		21.00	20.91				
2.45GHz		11	2462		18.75	18.66				
2.430112		1	2412		19.75	19.65				
	802.11ax20-HE0	6	2437	MCS0	21.00	20.89				
		11	2462		18.75	18.74				
		3	2422		16.25	16.13				
	802.11n40-HT0	6	2437	MCS0	21.00	20.88				
		9	2452	1	17.50	17.34				
		3	2422		16.25	16.09				
	802.11ax40-HE0	6	2437	MCS0	21.00	20.85				
		9	2452		17.50	17.42				

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Page: 39 of 139

			•			
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		20.00	19.89
	802.11a	40	5200	GMbps	21.00	20.95
	002.11a	44	5220	6Mbps	21.00	20.98
		48	5240		21.00	20.98
	802.11n20-HT0	36	5180		20.00	19.95
		40	5200	MCS0	21.00	20.92
		44	5220	IVICSU	21.00	20.86
		48	5240		21.00	20.83
		36	5180		20.00	19.98
5.15-5.25 GHz	802.11ax20-HE0	40	5200	MCS0	21.00	20.93
5.15-5.25 GHZ	002.11ax20-nE0	44	5220	IVICSU	21.00	20.88
		48	5240		21.00	20.85
	802.11n40-HT0	38	5190	MCS0	19.25	19.17
	ου2.111140-Π10	46	5230	IVICSU	21.00	20.99
	802.11ax40-HE0	38	5190	MCS0	19.25	19.04
	002.11dX40-⊓EU	46	5230	IVICSU	21.00	20.94
	802.11ac80-VHT0	42	5210	MCS0	18.75	18.69
	802.11ax80-HE0	42	5210	MCS0	18.75	18.59
	802.11ac160-VHT0	50	5250	MCS0	14.50	14.44
	802.11ax160-HE0	50	5250	MCS0	14.50	14.47

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Page: 40 of 139

			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		21.00	20.93
	802.11a	56	5280	6Mbps	21.00	20.98
	002.114	60	5300	Olvibps	21.00	20.99
		64	5320		21.00	20.97
		52	5260		21.00	20.93
	802.11n20-HT0	56	5280	MCS0	21.00	20.89
	002.111120-1110	60	5300	Wioco	21.00	20.83
		64	5320		21.00	20.79
5.25-5.35 GHz		52	5260		21.00	20.91
0.20-0.00 Of IZ	802.11ax20-HE0	56	5280	MCS0	21.00	20.88
	002.11ax20-11L0	60	5300	IVIOOU	21.00	20.86
		64	5320		21.00	20.89
	802.11n40-HT0	54	5270	MCS0	21.00	20.97
	002.1111 <del>4</del> 0-1110	62	5310	IVICOU	18.00	17.97
	802.11ax40-HE0	54	5270	MCS0	21.00	20.93
	002.11aA+0-11LU	62	5310		18.00	17.89
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.96
	802.11ax80-HE0	58	5290	MCS0	18.00	17.92

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Page: 41 of 139

			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		21.00	20.86
	802.11a	120	5600	6Mbps	21.00	20.82
		140	5700	1	20.75	20.71
		100	5500		21.00	20.89
	802.11n20-HT0	120	5600	MCS0	21.00	20.91
		140	5700	]	20.75	20.66
	802.11ax20-HE0	100	5500		21.00	20.88
		120	5600	MCS0	21.00	20.92
		140	5700		20.75	20.64
		102	5510		20.75	20.69
	802.11n40-HT0	118	5590	MCS0	21.00	20.92
	002.1111 <del>4</del> 0-F110	134	5670		21.00	20.98
5.6GHz		142	5710		21.00	20.96
		102	5510		20.75	20.61
	802.11ax40-HE0	118	5590	MCS0	21.00	20.91
	002.11ax40-⊓⊑0	134	5670	IVICSU	21.00	20.86
		142	5710		21.00	20.84
		106	5530		19.25	19.21
	802.11ac80-VHT0	122	5610	MCS0	21.00	20.94
		138	5690		21.00	20.98
		106	5530		19.00	18.96
	802.11ax80-HE0	122	5610	MCS0	21.00	20.88
		138	5690		21.00	20.93
	802.11ac160-VHT0	114	5570	MCS0	16.00	15.97
	802.11ax160-HE0	114	5570	MCS0	16.00	15.92

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Page: 42 of 139

	Aux									
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		149	5745		21.00	20.89				
	802.11a	157	5785	6Mbps	21.00	20.83				
		165	5825		21.00	20.93				
	802.11n20-HT0	149	5745	MCS0	21.00	20.86				
		157	5785		21.00	20.94				
		165	5825		21.00	20.91				
		149	5745		21.00	20.83				
5.8GHz	802.11ax20-HE0	157	5785	MCS0	21.00	20.79				
		165	5825		21.00	20.86				
	802.11n40-HT0	151	5755	MCS0	21.00	20.99				
	002.111140-1110	159	5795	IVICSU	21.00	20.98				
	802.11ax40-HE0	151	5755	MCS0	21.00	20.88				
	002.11aX40-ME0	159	5795	IVICSU	21.00	20.95				
	802.11ac80-VHT0	155	5775	MCS0	20.75	20.68				
	802.11ax80-HE0	155	5775	MCS0	20.75	20.62				

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Page: 43 of 139

### Tablet mode

iabiet mode						
			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		16.50	16.48
	802.11b	6	2437	1Mbps	16.50	16.49
		11	2462		16.50	16.47
	802.11g	1	2412		16.50	16.44
		6	2437	6Mbps	16.50	16.39
		11	2462		16.50	16.42
		1	2412	]	16.50	16.43
	802.11n20-HT0	6	2437	MCS0	16.50	16.46
2.45GHz		11	2462		16.50	16.38
2.430112		1	2412	1	16.50	16.42
	802.11ax20-HE0	6	2437	MCS0	16.50	16.36
		11	2462		16.50	16.29
		3	2422	]	16.00	15.98
	802.11n40-HT0	6	2437	MCS0	16.50	16.42
		9	2452		16.00	15.89
		3	2422	]	16.00	15.93
	802.11ax40-HE0	6	2437	MCS0	16.50	16.43
		9	2452		16.00	15.92

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Page: 44 of 139

Main									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		36	5180		12.50	12.33			
	802.11a	40	5200	6Mbps	12.50	12.42			
	002.11d	44	5220	6Mbps	12.50	12.42			
		48	5240		12.50	12.32			
	802.11n20-HT0	36	5180		12.50	12.42			
		40	5200	MCS0	12.50	12.38			
		44	5220		12.50	12.35			
		48	5240		12.50	12.31			
		36	5180		12.50	12.44			
5.15-5.25 GHz	802.11ax20-HE0	40	5200	MCS0	12.50	12.46			
5.15-5.25 GHZ	002.11ax20-HE0	44	5220	IVICSU	12.50	12.43			
		48	5240		12.50	12.37			
	802.11n40-HT0	38	5190	MCS0	12.50	12.33			
	002.111140-1110	46	5230	IVICSU	12.50	12.35			
	802.11ax40-HE0	38	5190	MCS0	12.50	12.41			
	002. ΓΙΑΧ40-ΠΕΌ	46	5230	IVICSU	12.50	12.37			
	802.11ac80-VHT0	42	5210	MCS0	12.50	12.48			
-	802.11ax80-HE0	42	5210	MCS0	12.50	12.43			
	802.11ac160-VHT0	50	5250	MCS0	12.50	12.49			
	802.11ax160-HE0	50	5250	MCS0	12.50	12.39			

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Page: 45 of 139

			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		13.50	13.44
	802.11a	56	5280	6Mbps	13.50	13.33
	802.11a	60	5300	Olvibps	13.50	13.38
		64	5320		13.50	13.34
		52	5260		13.50	13.41
	802.11n20-HT0	56	5280	MCS0	13.50	13.36
	002.111120-1110	60	5300		13.50	13.24
		64	5320		13.50	13.32
5.25-5.35 GHz		52	5260		13.50	13.28
3.23-3.33 GHZ	802.11ax20-HE0	56	5280	MCS0	13.50	13.38
	002.11dX20-NE0	60	5300	IVICSU	13.50	13.41
		64	5320		13.50	13.42
	802.11n40-HT0	54	5270	MCS0	13.50	13.46
	002.111140-1110	62	5310	IVICOU	13.50	13.45
	802.11ax40-HE0	54	5270	MCS0	13.50	13.33
	002.11ax40-11EU	62	5310	IVICSU	13.50	13.38
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.49
	802.11ax80-HE0	58	5290	MCS0	13.50	13.39

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Page: 46 of 139

			Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		14.50	14.33
	802.11a	120	5600	6Mbps	14.50	14.37
		140	5700	1	14.50	14.35
		100	5500		14.50	14.41
	802.11n20-HT0	120	5600	MCS0	14.50	14.32
		140	5700	1	14.50	14.45
		100	5500		14.50	14.39
	802.11ax20-HE0	120	5600	MCS0	14.50	14.28
		140	5700	1	14.50	14.35
		102	5510		14.50	14.25
	000 44-40 LITO	118	5590	MOCO	14.50	14.33
	802.11n40-HT0	134	5670	MCS0	14.50	14.35
5.6GHz		142	5710	1	14.50	14.37
		102	5510		14.50	14.42
	000 4440 1150	118	5590	MOCO	14.50	14.42
	802.11ax40-HE0	134	5670	MCS0	14.50	14.35
		142	5710	1	14.50	14.36
		106	5530		14.50	14.47
	802.11ac80-VHT0	122	5610	MCS0	14.50	14.44
		138	5690	]	14.50	14.48
		106	5530		14.50	14.29
	802.11ax80-HE0	122	5610	MCS0	14.50	14.38
		138	5690	]	14.50	14.35
	802.11ac160-VHT0	114	5570	MCS0	14.50	14.44
	802.11ax160-HE0	114	5570	MCS0	14.50	14.36

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Page: 47 of 139

			<u>Main</u>			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		15.00	14.82
	802.11a	157	5785	6Mbps	15.00	14.92
		165	5825		15.00	14.87
		149	5745	MCS0	15.00	14.89
	802.11n20-HT0	157	5785		15.00	14.76
		165	5825		15.00	14.75
		149	5745		15.00	14.83
5.8GHz	802.11ax20-HE0	157	5785	MCS0	15.00	14.77
		165	5825		15.00	14.85
	802.11n40-HT0	151	5755	MCS0	15.00	14.92
	002.111 <del>4</del> 0-F110	159	5795	IVICSU	15.00	14.94
	802.11ax40-HE0	151	5755	MCS0	15.00	14.79
	002.11aX40-NEU	159	5795		15.00	14.85
	802.11ac80-VHT0	155	5775	MCS0	15.00	14.94
	802.11ax80-HE0	155	5775	MCS0	15.00	14.86

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Page: 48 of 139

	***					
		ı	Aux	1		
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		18.00	17.99
	802.11b	6	2437	1Mbps	18.00	17.97
		11	2462		18.00	17.93
	802.11g	1	2412		18.00	17.87
		6	2437	6Mbps	18.00	17.91
		11	2462		18.00	17.77
		1	2412	MCS0	18.00	17.86
	802.11n20-HT0	6	2437		18.00	17.82
2.45GHz		11	2462		18.00	17.79
2.430112		1	2412		18.00	17.85
	802.11ax20-HE0	6	2437	MCS0	18.00	17.91
		11	2462		18.00	17.94
		3	2422	_	16.25	16.14
	802.11n40-HT0	6	2437	MCS0	18.00	17.88
		9	2452		17.50	17.43
		3	2422		16.25	16.23
	802.11ax40-HE0	6	2437	MCS0	18.00	17.69
		9	2452		17.50	17.32

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Page: 49 of 139

			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		14.00	13.84
	802.11a	40	5200	6Mbps	14.00	13.91
	002.11d	44	5220	6Mbps	14.00	13.86
		48	5240		14.00	13.89
		36	5180		14.00	13.85
	802.11n20-HT0	40	5200	MCS0	14.00	13.81
	002.111120-1110	44	5220		14.00	13.79
		48	5240		14.00	13.92
		36	5180		14.00	13.94
5.15-5.25 GHz	802.11ax20-HE0	40	5200	MCS0	14.00	13.88
5.15-5.25 GHZ	002.11ax20-HE0	44	5220	IVICSU	14.00	13.85
		48	5240		14.00	13.93
	802.11n40-HT0	38	5190	MCS0	14.00	13.84
	002. i iii40-Π10	46	5230	IVICSU	14.00	13.86
	802.11ax40-HE0	38	5190	MCS0	14.00	13.82
	002. ΓΙΑΧ40-ΠΕΌ	46	5230	IVICSU	14.00	13.94
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.98
	802.11ax80-HE0	42	5210	MCS0	14.00	13.88
	802.11ac160-VHT0	50	5250	MCS0	14.00	13.95
	802.11ax160-HE0	50	5250	MCS0	14.00	13.85

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Page: 50 of 139

			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		13.50	13.44
	802.11a	56	5280	6Mbps	13.50	13.24
	802.11a	60	5300	Olvibps	13.50	13.38
		64	5320		13.50	13.41
		52	5260	MCS0	13.50	13.29
	802.11n20-HT0	56	5280		13.50	13.19
	002.111120-1110	60	5300		13.50	13.33
		64	5320		13.50	13.42
5.25-5.35 GHz		52	5260		13.50	13.42
3.23-3.33 GHZ	802.11ax20-HE0	56	5280	MCS0	13.50	13.38
	002.11dX20-11L0	60	5300	IVICSU	13.50	13.32
		64	5320		13.50	13.31
	802.11n40-HT0	54	5270	MCS0	13.50	13.44
	002.111140-1110	62	5310	IVICSU	13.50	13.48
	802.11ax40-HE0	54	5270	MCS0	13.50	13.37
	002.11aA40-11LU	62	5310		13.50	13.27
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.48
	802.11ax80-HE0	58	5290	MCS0	13.50	13.41

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台灣檢驗科技股份有限公司



Page: 51 of 139

			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		15.00	14.83
	802.11a	120	5600	6Mbps	15.00	14.92
		140	5700	1	15.00	14.77
		100	5500		15.00	14.85
	802.11n20-HT0	120	5600	MCS0	15.00	14.87
		140	5700	1	15.00	14.91
		100	5500		15.00	14.87
	802.11ax20-HE0	120	5600	MCS0	15.00	14.92
		140	5700	1	15.00	14.79
		102	5510		15.00	14.83
	802.11n40-HT0	118	5590	MCS0	15.00	14.89
	602.111140-H10	134	5670	IVICSU	15.00	14.76
5.6GHz		142	5710		15.00	14.86
		102	5510		15.00	14.82
	802.11ax40-HE0	118	5590	MCS0	15.00	14.83
	602.11ax40-HE0	134	5670	IVICSU	15.00	14.92
		142	5710		15.00	14.88
		106	5530		15.00	14.96
	802.11ac80-VHT0	122	5610	MCS0	15.00	14.91
		138	5690		15.00	14.99
		106	5530		15.00	14.83
	802.11ax80-HE0	122	5610	MCS0	15.00	14.92
		138	5690	]	15.00	14.85
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.99
	802.11ax160-HE0	114	5570	MCS0	15.00	14.91

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Page: 52 of 139

			Aux			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		14.50	14.44
	802.11a	157	5785	6Mbps	14.50	14.32
		165	5825		14.50	14.37
	802.11n20-HT0	149	5745	MCS0	14.50	14.38
		157	5785		14.50	14.41
		165	5825		14.50	14.36
		149	5745		14.50	14.38
5.8GHz	802.11ax20-HE0	157	5785	MCS0	14.50	14.42
		165	5825		14.50	14.33
	802.11n40-HT0	151	5755	MCS0	14.50	14.47
	002.111140-1110	159	5795	IVICSU	14.50	14.49
	802.11ax40-HE0	151	5755	MCS0	14.50	14.37
	002.11aX40-NEU	159	5795	IVICSU	14.50	14.31
	802.11ac80-VHT0	155	5775	MCS0	14.50	14.44
	802.11ax80-HE0	155	5775	MCS0	14.50	14.41

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Page: 53 of 139

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### Notehook mode

			Mian			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	5955		7.00	6.92
	802.11ax20-HE0	45	6175	MCS0	7.00	6.87
		93	6415	] [	7.00	6.88
		3	5965		10.00	9.89
	802.11ax40-HE0	43	6165	MCS0	10.00	9.94
U-NII-5		91	6405	] [	10.00	9.97
6.2GHz		7	5985		13.00	12.94
_	802.11ax80-HE0	39	6145	MCS0	13.00	12.88
		87	6385	] [	13.00	12.91
		15	6025		13.50	13.49
	802.11ax160-HE0	47	6185	MCS0	13.50	13.47
		79	6345	] [	13.50	13.48
			Mian			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		97	6435		7.00	6.92
	802.11ax20-HE0	105	6475	MCS0	7.00	6.98
		113	6515		7.00	6.88
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.95
6.5GHz	002.118X4U-TEU	107	6485	IVICSU	10.00	9.93
	000 44av00 UE0	103	6465	MCCO	13.00	12.92
	802.11ax80-HE0	119	6545	MCS0	13.00	12.84
	802.11ax160-HE0	111	6505	MCS0	13.50	13.47

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Page: 54 of 139

			Mian			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		117	6535		7.00	6.89
	802.11ax20-HE0	149	6695	MCS0	7.00	6.93
		181	6855		7.00	6.88
		115	6525		10.00	9.95
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	9.89
0-MI-7 6.7GHz		179	6845		10.00	9.97
6.7 GHZ	802.11ax80-HE0	135	6625		13.00	12.95
		151	6705	MCS0	13.00	12.91
		167	6785		13.00	12.96
	802.11ax160-HE0	143	6665	MCS0	13.50	13.48
	002.11ax100-FEU	175	6825	IVICSU	13.50	13.46
			Mian			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		185	6875	_	7.00	6.99
	802.11ax20-HE0	209	6995	MCS0	7.00	6.94
		233	7115		7.00	6.97
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.89
7.0GHz	002.11ax40-11L0	227	7085	IVICOU	10.00	9.94
7.0GI IZ		183	6865	_	13.00	12.89
	802.11ax80-HE0	199	6945	MCS0	13.00	12.95
		215	7025		13.00	12.92
	802.11ax160-HE0	207	6985	MCS0	13.50	13.46

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Page: 55 of 139

	d p-1					
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	5955		7.00	6.86
	802.11ax20-HE0	45	6175	MCS0	7.00	6.93
		93	6415		7.00	6.91
		3	5965		10.00	9.98
	802.11ax40-HE0	43	6165	MCS0	10.00	9.87
U-NII-5		91	6405		10.00	9.94
6.2GHz	802.11ax80-HE0	7	5985		13.00	12.89
		39	6145	MCS0	13.00	12.98
		87	6385		13.00	12.96
		15	6025		13.50	13.46
	802.11ax160-HE0	47	6185	MCS0	13.50	13.48
		79	6345		13.50	13.49
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		97	6435		7.00	6.97
	802.11ax20-HE0	105	6475	MCS0	7.00	6.93
		113	6515		7.00	6.96
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.98
6.5GHz	002.118X4U-DEU	107	6485	IVICSU	10.00	9.92
	802.11ax80-HE0	103	6465	MCS0	13.00	12.94
	OUZ. I TAXOU-FIEU	119	6545	IVICSU	13.00	12.98
	802.11ax160-HE0	111	6505	MCS0	13.50	13.48

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Page: 56 of 139

	A 1-1					
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		117	6535		7.00	6.87
	802.11ax20-HE0	149	6695	MCS0	7.00	6.94
		181	6855		7.00	6.99
		115	6525		10.00	9.92
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	9.89
6.7GHz		179	6845		10.00	9.95
0.7 GHZ		135	6625		13.00	12.93
	802.11ax80-HE0	151	6705	MCS0	13.00	12.97
		167	6785		13.00	12.88
	802.11ax160-HE0	143	6665	MCS0	13.50	13.46
	002.11ax100-11L0	175	6825	IVICOU	13.50	13.49
		_	Aux			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		185	6875		7.00	6.91
	802.11ax20-HE0	209	6995	MCS0	7.00	6.97
		233	7115		7.00	6.95
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.88
7.0GHz	002.11aA+0-11E0	227	7085	IVICOU	10.00	9.95
7.00112		183	6865		13.00	12.94
	802.11ax80-HE0	199	6945	MCS0	13.00	12.91
		215	7025		13.00	12.89
	802.11ax160-HE0	207	6985	MCS0	13.50	13.49

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Page: 57 of 139

### Tablet mode

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			IVIIAII			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	5955		7.00	6.88
	802.11ax20-HE0	45	6175	MCS0	7.00	6.83
		93	6415		7.00	6.93
		3	5965		10.00	9.89
	802.11ax40-HE0	43	6165	MCS0	10.00	9.94
U-NII-5		91	6405	1	10.00	9.98
6.2GHz	GHz	7	5985	MCS0	13.00	12.92
	802.11ax80-HE0	39	6145		13.00	12.95
		87	6385	1	13.00	12.88
		15	6025		13.00	12.99
	802.11ax160-HE0	47	6185	MCS0	13.00	12.96
		79	6345	]	13.00	12.98
			Mian			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		97	6435		7.00	6.88
	802.11ax20-HE0	105	6475	MCS0	7.00	6.87
		113	6515		7.00	6.93
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.96
6.5GHz	002.11ax40-11E0	107	6485	IVICOU	10.00	9.93
	802.11ax80-HE0	103	6465	MCS0	13.00	12.89
	002.11ax00-11E0	119	6545	INC20	13.00	12.93
	802.11ax160-HE0	111	6505	MCS0	13.00	12.98

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Page: 58 of 139

	1 1 1					
			Mian			
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	6.99
		181	6855	]	7.00	6.96
		115	6525		10.00	9.89
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	9.97
6.7GHz		179	6845		10.00	9.92
0.7 GHZ		135	6625		13.00	12.91
	802.11ax80-HE0	151	6705	MCS0	13.00	12.95
		167	6785		13.00	12.89
	802.11ax160-HE0	143	6665	MCS0	13.00	12.99
	002.11ax100-11E0	175	6825	IVICSU	13.00	12.97
			Mian			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		185	6875		7.00	6.77
	802.11ax20-HE0	209	6995	MCS0	7.00	6.85
		233	7115		7.00	6.89
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.89
7.0GHz	002.11aA+0-11EU	227	7085	IVICOU	10.00	9.99
7.00112		183	6865		13.00	12.84
	802.11ax80-HE0	199	6945	MCS0	13.00	12.92
		215	7025		13.00	12.86
	802.11ax160-HE0	207	6985	MCS0	13.00	12.97

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Page: 59 of 139

	d p-1					
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	5955		7.00	6.93
	802.11ax20-HE0	45	6175	MCS0	7.00	6.97
		93	6415		7.00	6.79
		3	5965		10.00	9.94
	802.11ax40-HE0	43	6165	MCS0	10.00	9.89
U-NII-5		91	6405		10.00	9.97
6.2GHz	802.11ax80-HE0	7	5985		12.50	12.41
		39	6145	MCS0	12.50	12.33
		87	6385		12.50	12.29
		15	6025		12.50	12.43
	802.11ax160-HE0	47	6185	MCS0	12.50	12.48
		79	6345		12.50	12.46
			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		97	6435		7.00	6.93
	802.11ax20-HE0	105	6475	MCS0	7.00	6.85
		113	6515		7.00	6.94
U-NII-6	802.11ax40-HE0	99	6445	MCS0	10.00	9.98
6.5GHz	002.118X4U-DEU	107	6485	IVICSU	10.00	9.92
	802.11ax80-HE0	103	6465	MCS0	12.50	12.44
	002.11dX0U-ПEU	119	6545	IVICSU	12.50	12.39
	802.11ax160-HE0	111	6505	MCS0	12.50	12.48

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Page: 60 of 139

			Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		117	6535		7.00	6.97
	802.11ax20-HE0	149	6695	MCS0	7.00	6.91
		181	6855		7.00	6.95
		115	6525		10.00	9.89
U-NII-7	802.11ax40-HE0	147	6685	MCS0	10.00	9.94
_	6.7GHz	179	6845		10.00	9.96
0.7 GHZ	802.11ax80-HE0	135	6625		12.50	12.33
		151	6705	MCS0	12.50	12.37
		167	6785		12.50	12.42
	802.11ax160-HE0	143	6665	MCS0	12.50	12.38
	002.11ax100-11E0	175	6825	IVICSU	12.50	12.49
			Aux			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		185	6875		7.00	6.83
	802.11ax20-HE0	209	6995	MCS0	7.00	6.88
		233	7115		7.00	6.79
U-NII-8	802.11ax40-HE0	187	6885	MCS0	10.00	9.96
7.0GHz	OUZ. I TAX4U-I IEU	227	7085	IVICOU	10.00	9.99
7.00112		183	6865		12.50	12.37
	802.11ax80-HE0	199	6945	MCS0	12.50	12.41
		215	7025		12.50	12.38
	802.11ax160-HE0	207	6985	MCS0	12.50	12.45

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Page: 61 of 139

#### 6.3 **Bluetooth**

			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		9.79		8.23		8.06	
BR/EDR	CH 39	2441	10.50	10.15	9.50	8.74	9.50	8.67	
	CH 78	2480		10.38		8.91		8.79	

#### 6.4 **BLE**

Mode	Channel	Frequency		GFSK			
iviode	Channel	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)			
	CH 00	2402		7.52			
BLE_1M	CH 19	2440	9	7.85			
	CH 39	2480		8.40			
Mode	Channel	Frequency	(	GFSK			
Mode	Channel	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)			
	CH 00	2402		4.79			
BLE_2M	CH 19	2440	6	5.21			
	CH 39	2480		5.65			

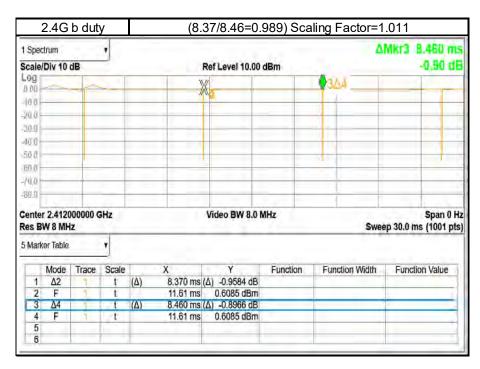
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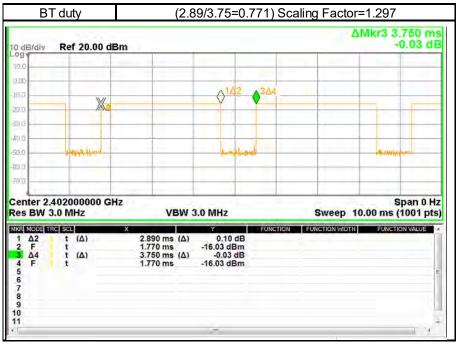
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Page: 62 of 139





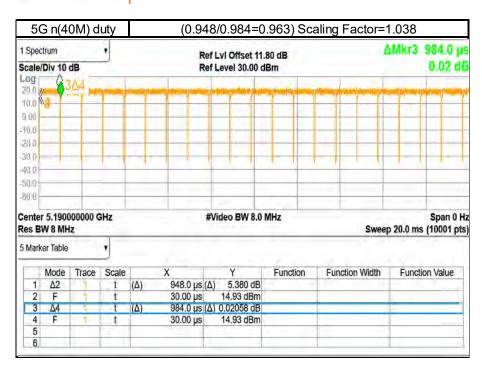


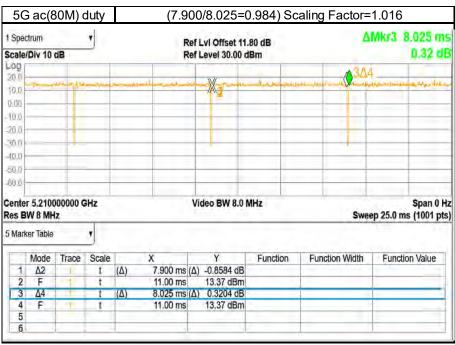
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Page: 63 of 139





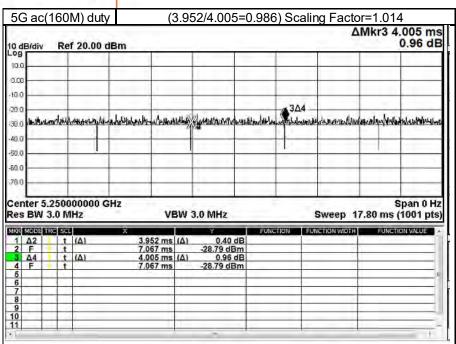
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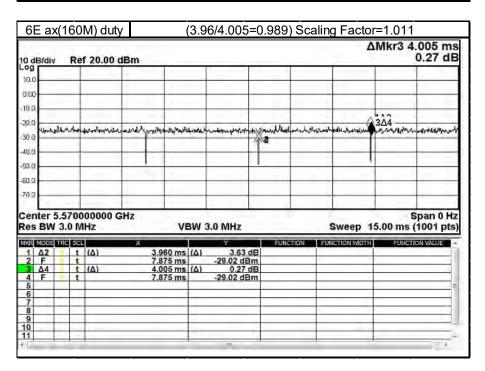
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Page: 64 of 139





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Page: 65 of 139

# SUMMARY OF RESULTS

#### 8.1 **Decision rules**

Reported measurement data comply with Test Methodology in section 1.1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

#### 8.2 **Summary of SAR Results**

### Notebook mode

TOTOBOOK III	ouo											
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	ID
			(11111)		(IVITZ)	Tolerance (dBm)	(dBm)	scanny	scanny	Measured	Reported	
WLAN 802.11b	Main	Bottom Surface	0	1	2412	21.00	20.95	1.011	101.16%	0.108	0.110	-
WLAN 802.11b	Main	Bottom Surface	0	6	2437	21.00	20.87	1.011	103.04%	0.113	0.118	-
WLAN 802.11b	Main	Bottom Surface	0	11	2462	21.00	20.99	1.011	100.23%	0.126	0.128	001
Mode	Antenna	Position	Distance (mm)	Channel	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)	ID
WLAN 802.11n(40M) 5.2G	Main	Bottom Surface	0	46	5230	21.00	20.95	1.038	101.16%	0.142	0.149	002
WEAR 602.1111(40W) 3.2G	IVIdIII	Dottom Surface	0	40	3230			1.030	101.1076	*****		002
Mode	Antenna	Position	Distance (mm)	Channel	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)	ID
WLAN 802.11n(40M) 5.3G	Main	Bottom Surface	0	54	5270	21.00	20.96	1.038	100.93%	0.155	0.162	003
Mode	Antenna	Position	Distance (mm)	Channel	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)	ID
WLAN 802.11ac(80M) 5.6G	Main	Bottom Surface	0	138	5690	21.00	20.98	1.016	100.46%	0.343	0.350	004
Mode	Antenna	Position	Distance (mm)	Channel	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)	ID
WLAN 802.11ac(80M) 5.8G	Main	Bottom Surface	0	155	5775	21.00	20.92	1.016	101.86%	0.364	0.377	005
Mode	Antenna	Position	Distance (mm)	Channel	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)	ID
WLAN 802.11b	Aux	Bottom Surface	0	1	2412	21.00	20.84	1.011	103.75%	0.222	0.233	006
WLAN 802.11b	Aux	Bottom Surface	0	6	2437	21.00	20.98	1.011	100.46%	0.195	0.198	
WLAN 802.11b	Aux	Bottom Surface	0	11	2462	21.00	20.88	1.011	102.80%	0.178	0.185	
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
Bluetooth(GFSK)	Aux	Bottom Surface	0	78	2480	10.50	10.38	1.297	102.80%	0.009	0.012	007
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		AR over 1g /kg) Reported	ID
WLAN 802.11n(40M) 5.2G	Aux	Bottom Surface	0	46	5230	21.00	20.99	1.038	100.23%	0.252	0.262	008
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	ID
			` '		` '	Tolerance (dBm)	(dBm)	ŭ	ŭ	Measured	Reported	
WLAN 802.11n(40M) 5.3G	Aux	Bottom Surface	0	54	5270	21.00	20.97	1.038	100.69%	0.214	0.224	009
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
WLAN 802.11ac(80M) 5.6G	Aux	Bottom Surface	0	138	5690	21.00	(dBm) 20.98	1.016	100.46%	Measured 0.402	Reported 0.410	010
WLAIN OUZ. 1 18C(8UM) 5.6G	AUX	DOLLOTT SUTTACE	0	138	5090			1.016	100.46%	0.402	0.410	010
					_	Max. Rated Avg.	Measured	Duty cycle	D	Averaged SAR	over 1a (M/kg)	
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	Power scaling	Measured	Reported	ID

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Page: 66 of 139

### Tablet mode

Mode												
	Antenna	Position	Distance (mm)	Channel	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)	ID
WLAN 802.11b	Main	Back Surface	0	6	2437	16.50	16.49	1.011	100.23%	0.151	0.153	-
WLAN 802.11b	Main	Top Edge	0	6	2437	16.50	16.49	1.011	100.23%	0.001	0.001	
WLAN 802.11b	Main	Right Edge	0	1	2412	16.50	16.48	1.011	100.46%	0.554	0.563	-
WLAN 802.11b WLAN 802.11b	Main Main	Right Edge Right Edge	0	6 11	2437 2462	16.50 16.50	16.49 16.47	1.011 1.011	100.23% 100.69%	0.581 0.537	0.589 0.547	012
Mode	Antenna	Position	Distance (mm)	Channel	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)	ID
WLAN 802.11ac(160M) 5.2G	Main	Back Surface	0	50	5250	12.50	12.49	1.014	100.23%	0.129	0.131	-
WLAN 802.11ac(160M) 5.2G	Main		0	50	5250	12.50	12.49	1.014	100.23%	0.057		
		Top Edge									0.058	
WLAN 802.11ac(160M) 5.2G	Main	Right Edge	0	50	5250	12.50	12.49	1.014	100.23%	0.476	0.484	013
Mode	Antenna	Position	Distance (mm)	Channel	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	ID
WLAN 802.11ac(80M) 5.3G	Main	Back Surface	0	58	5290	13.50	13.49	1.016	100.23%	0.175	0.178	-
WLAN 802.11ac(80M) 5.3G	Main	Top Edge	0	58	5290	13.50	13.49	1.016	100.23%	0.065	0.066	-
WLAN 802.11ac(80M) 5.3G	Main	Right Edge	0	58	5290	13.50	13.49	1.016	100.23%	0.704	0.717	014
Mode	Antenna	Position	Distance	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power		over 1g (W/kg)	ID
			(mm)		(IVITIZ)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Main	Back Surface	0	138	5690	14.50	14.48	1.016	100.46%	0.330	0.337	-
WLAN 802.11ac(80M) 5.6G	Main	Top Edge	0	138	5690	14.50	14.48	1.016	100.46%	0.067	0.068	-
WLAN 802.11ac(80M) 5.6G	Main	Right Edge	0	138	5690	14.50	14.48	1.016	100.46%	0.701	0.716	015
WLAN 802.11ac(160M) 5.6G	Main	Back Surface	0	114	5570	14.50	14.44	1.014	101.39%	0.309	0.318	
WLAN 802.11ac(160M) 5.6G	Main		0				14.44					
		Top Edge		114	5570	14.50		1.014	101.39%	0.060	0.062	
WLAN 802.11ac(160M) 5.6G	Main	Right Edge	0	114	5570	14.50	14.44	1.014	101.39%	0.778	0.800	016
Repeted	Main	Right Edge	0	114	5570	14.50 Max. Rated Avg.	14.44 Measured	1.014	101.39%	0.761	0.782	
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.8G	Main	Back Surface	0	155	5775	15.00	14.94	1.016	101.39%	0.389	0.401	-
WLAN 802.11ac(80M) 5.8G	Main	Top Edge	0	155	5775	15.00	14.94	1.016	101.39%	0.070	0.072	-
WLAN 802.11ac(80M) 5.8G	Main	Right Edge	0	155	5775	15.00	14.94	1.016	101.39%	0.743	0.765	017
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
						Tolerance (dBm)	(dBm)	-	-	Measured	Reported	
WLAN 802.11b	Aux	Back Surface	0	1	2412	18.00	17.99	1.011	100.23%	0.176	0.178	-
WLAN 802.11b	Aux	Top Edge	0	1	2412	18.00	17.99	1.011	100.23%	0.001	0.001	-
WLAN 802.11b	Aux	Left Edge	0	1	2412	18.00	17.99	1.011	100.23%	1.060	1.074	-
WLAN 802.11b	Aux	Left Edge	0	6	2437	18.00	17.97	1.011	100.69%	1.050	1.069	-
WLAN 802.11b	Aux	Left Edge	0	11	2462	18.00	17.93	1.011	101.62%	1.080	1.110	018
Repeted	Aux	Left Edge	0	11	2462	18.00	17.93	1.011	101.62%	1.040	1.069	
,			-									
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR		ID
			(mm)		(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	ID
Bluetooth(GFSK)	Antenna Aux	Position  Back Surface		Channel 78		Power + Max.	Avg. Power					ID -
			(mm)		(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	ID -
Bluetooth(GFSK)	Aux	Back Surface	(mm) 0	78	(MHz) 2480	Power + Max. Tolerance (dBm)	Avg. Power (dBm) 10.38	scaling 1.297	scaling 102.80%	Measured 0.001	Reported 0.001	-
Bluetooth(GFSK) Bluetooth(GFSK)	Aux Aux	Back Surface Top Edge	(mm) 0 0	78 78	(MHz) 2480 2480	Power + Max. Tolerance (dBm) 10.50 10.50 10.50 Max. Rated Avg. Power + Max.	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power	1.297 1.297	scaling 102.80% 102.80%	0.001 0.001 0.001 0.171 Averaged \$	Reported 0.001 0.001 0.228 6AR over 1g /kg)	-
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode	Aux Aux Aux Antenna	Back Surface Top Edge Left Edge Position	(mm) 0 0 0 Distance (mm)	78 78 78 Channel	2480 2480 2480 2480 Freq. (MHz)	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power (dBm)	1.297 1.297 1.297 Duty cycle scaling	scaling 102.80% 102.80% 102.80% Power scaling	Measured 0.001 0.001 0.171 Averaged S (W) Measured	Reported  0.001  0.001  0.228  SAR over 1g  (kg)  Reported	- 019
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Mode WLAN 802.11ac(160M) 5.2G	Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface	(mm)  0  0  0  Distance (mm)	78 78 78 Channel	2480 2480 2480 2480 Freq. (MHz)	Power + Max. Tolerance (dBm) 10.50 10.50 10.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.00	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95	1.297 1.297 1.297 1.297 Duty cycle scaling 1.014	scaling 102.80% 102.80% 102.80% Power scaling 101.16%	Measured 0.001 0.001 0.171 Averaged S (W) Measured 0.133	Reported  0.001  0.001  0.228 SAR over 1g /kg)  Reported  0.136	- - 019 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Mode WLAN 802.11ac(160M) 5.2G WLAN 802.11ac(160M) 5.2G	Aux Aux Aux Antenna Aux Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge	(mm)  0 0 0 0 Distance (mm) 0 0	78 78 78 Channel	(MHz)  2480  2480  2480  2480  Freq. (MHz)  5250  5250	Power + Max. Tolerance (dBm) 10.50 10.50 10.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.00 14.00	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95	1.297 1.297 1.297 1.297 Duty cycle scaling 1.014 1.014	scaling  102.80%  102.80%  102.80%  Power scaling  101.16%  101.16%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058	Reported  0.001  0.001  0.228 SAR over 1g /kg)  Reported  0.136  0.059	- 019 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Mode WLAN 802.11ac(160M) 5.2G WLAN 802.11ac(160M) 5.2G	Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface	(mm)  0  0  0  Distance (mm)	78 78 78 Channel	2480 2480 2480 2480 Freq. (MHz)	Power + Max, Tolerance (dBm) 10.50 10.50 10.50 Max. Rated Avg. Power + Max, Tolerance (dBm) 14.00 14.00	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95	1.297 1.297 1.297 1.297 Duty cycle scaling 1.014	scaling 102.80% 102.80% 102.80% Power scaling 101.16%	Measured 0.001 0.001 0.171 Averaged \$\frac{1}{2}\$ (W. Measured 0.133 0.058 0.589	Reported 0.001 0.001 0.228 SAR over 1g //kg) Reported 0.136 0.059 0.604	- 019 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  Mode	Aux Aux Aux Antenna Aux Aux Aux Aux Aux Aux Aux Antenna	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position	(mm)  0 0 0 Distance (mm)  0 0 Distance (mm)	78 78 78 Channel 50 50 Channel	(MHz)  2480  2480  2480  Freq. (MHz)  5250  5250  Freq. (MHz)	Power + Max. Tolerance (dBm) 10.50 10.50 10.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.00 14.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm)	1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 Duty cycle scaling	scaling 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% Power scaling	Measured 0.001 0.001 0.171 Averaged S (W Measured 0.133 0.058 0.589 Averaged SAR Measured	Reported	- - 019 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Mode  WLAN 802.11ac(160M) 5.2G WLAN 802.11ac(160M) 5.2G WLAN 802.11ac(160M) 5.2G WLAN 802.11ac(160M) 5.3G	Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface	(mm)  0 0 0 Distance (mm)  0 0 Distance (mm)  0 0 Distance (mm) 0	78 78 78 Channel 50 50 Channel	(MHz)  2480  2480  2480  Freq. (MHz)  5250  5250  Freq. (MHz)  5290	Power + Max. Tolerance (dBm) 10.50 10.50 10.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.00 14.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 13.50	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 13.95 Measured Avg. Power (dBm)	1.297 1.297 1.297 1.297 1.297 Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016	scaling 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.16% Power scaling 100.46%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107	Reported 0.001 0.001 0.228 SAR over 1g /kg) Reported 0.136 0.059 0.604 over 1g (W/kg) Reported	- 019 ID - - 020
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G	Aux Aux Aux Antenna Aux Aux Aux Aux Aux Aux Aux Antenna	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position	(mm)  0 0 0 Distance (mm)  0 0 Distance (mm)	78 78 78 Channel 50 50 Channel	(MHz)  2480  2480  2480  Freq. (MHz)  5250  5250  Freq. (MHz)	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm)	1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 Duty cycle scaling	scaling 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% Power scaling	Measured 0.001 0.001 0.171 Averaged S (W Measured 0.133 0.058 0.589 Averaged SAR Measured	Reported	- 019 ID - - 020
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G	Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface	(mm)  0 0 0 Distance (mm)  0 0 Distance (mm)  0 0 Distance (mm) 0	78 78 78 Channel 50 50 Channel	(MHz)  2480  2480  2480  Freq. (MHz)  5250  5250  Freq. (MHz)  5290	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50	Avg. Power (dBm) 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48	1.297 1.297 1.297 1.297 1.297 Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016	scaling 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.16% Power scaling 100.46%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107	Reported 0.001 0.001 0.228 SAR over 1g /kg) Reported 0.136 0.059 0.604 over 1g (W/kg) Reported	- 019 ID 020 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G	Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge	(mm)  0 0 0 Distance (mm) 0 0 Distance (mm) 0 0 0 Distance (mm) 0 0 Distance (mm)	78 78 78 Channel 50 50 Channel 58	(MHz)  2480  2480  2480  2480  Freq. (MHz)  5250  5250  Freq. (MHz)  5290  5290	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50	Avg. Power (dBm) 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 13.95 Measured Avg. Power (dBm) 13.48	1.297 1.297 1.297 1.297 1.297 Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% Power scaling 100.46%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571	Reported 0.001 0.001 0.001 0.028 SAR over 1g (kg) Reported 0.136 0.059 0.604 over 1g (W/kg) Reported 0.109 0.059	- 018 ID 020 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  Mode	Aux Aux Antenna Aux Aux Aux Aux Aux Aux Aux Antenna Aux Aux Aux Aux Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Left Edge Left Edge Left Edge Left Edge	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  Distance (mm)  0  Distance (mm)	78 78 78 78 Channel 50 50 50 Channel 58 58	(MHz) 2480 2480 2480 2480 Freq. (MHz) 5250 5250 5250 Freq. (MHz) 5290 5290 Freq.	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm) 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 Measured Avg. Power	1.297 1.297 1.297 1.297 Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016 1.016 Duty cycle	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.16% 100.46% 100.46% 100.46%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR	Reported 0.001 0.001 0.028 SAR over 1g /kg) Reported 0.136 0.059 0.604 over 1g (W/kg) Reported 0.109 0.059 0.583 over 1g (W/kg)	- 019 ID - 020 ID - 020
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G	Aux Aux Antenna Aux Aux Aux Aux Aux Aux Antenna Aux Aux Aux Aux Aux Aux Aux Aux	Back Surface Top Edge Left Edge Position Back Surface	(mm)  0  0  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  0  Distance (mm)  0	78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel	(MHz) 2480 2480 2480 2480 Freq. (MHz) 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz)	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50	Avg. Power (dBm) 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 Measured Avg. Power (dBm)	1.297 1.297 1.297 1.297 Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016 1.016 1.016 1.016 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% Power scaling 100.46% 100.46% 100.46% 100.46% 100.23%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.107 Averaged SAR Measured 0.571 Averaged SAR	Reported 0.001 0.001 0.228 SAR over 19 (kg) Reported 0.136 0.059 0.604 over 19 (W/kg) Reported 0.109 0.583 over 19 (W/kg) Reported 0.109 0.583	- 019 ID 020 ID 020 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  VLAN 802.11ac(160M) 5.2G  VLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G	Aux Aux Antenna Aux Aux Aux Aux Antenna Aux Aux Aux Aux Aux Aux Aux Aux Antenna	Back Surface Top Edge Left Edge Position Back Surface Top Edge	(mm)  0  0  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  0  O  O  Distance (mm)  0  O  O  O  Distance (mm)	78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138	(MHz) 2480 2480 2480 2480 Freq. (MHz) 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz)	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 Measured Avg. Power (dBm)	scaling 1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016 1.016 Duty cycle scaling 1.016 1.016 1.016 Duty cycle scaling	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% Power scaling 100.46% 100.46% 100.23%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077	Reported	- 015 ID 020 ID - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G	Aux Aux Antenna Aux Antenna Aux Antenna Aux Antenna Aux Aux Aux Aux Aux Aux Aux Aux Antenna Aux Aux Antenna	Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Left Edge  Left Edge  Left Edge  Left Edge  Left Edge  Left Edge  Left Edge	(mm)  0  0  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  0  Distance (mm)  0  0  Distance (mm)  0  0  Distance (mm)	78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138 138	(MHz)  2480  2480  2480  2480  Freq. (MHz)  5250  5250  5250  Freq. (MHz)  5290  5290  Freq. (MHz)  5690  5690  5530	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  13.50  13.50  13.50  13.50  13.50  13.50  13.50  13.50  13.50  13.50  13.50  13.50	Avg. Power (dBm) 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 Measured Avg. Power (dBm)	scaling 1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014  Duty cycle scaling 1.016 1.016 1.016 1.016 1.016 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% Power scaling 100.46% 100.46% 100.46% 100.23% 100.23%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.077 0.995	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G	Aux Aux Aux Aux Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Left Edge  Left Edge  Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge	(mm)  0  0  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  0  0  0  0  0  0  0  0  0  0  0  0	78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138 138 106 138	(MHz) 2480 2480 2480 2480 Freq. (MHz) 5250 5250 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5690	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  15.00  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 13.48 Measured Avg. Power (dBm) 14.99 14.99 14.99	1.297 1.297 1.297 1.297 1.297 Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% 100.46% 100.46% 100.46% 100.23% 100.23% 100.23%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.077 0.995 0.838	Reported 0.001 0.001 0.001 0.028 SAR over 1g (kg) Reported 0.136 0.059 0.604 0.ver 1g (W/kg) Reported 0.109 0.059 0.583 over 1g (W/kg) Reported 0.295 0.0078 1.020 0.853	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  NLAN 802.11ac(160M) 5.2G  NLAN 802.11ac(160M) 5.2G  Mode  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  Repeted	Aux Aux Antenna Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  0  Distance (mm)  0  0  0  0  0  0  0  0  0	78 78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138 138 106 138 106	(MHz) 2480 2480 2480 2480 2480 Freq. (MHz) 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5530 5690 5530	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  15.00  15.00  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 Measured Avg. Power (dBm) 14.99 14.99 14.96	1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% Power scaling 100.46% 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.93%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 0.995 0.838 0.961	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G  Repeted  WLAN 802.11ac(80M) 5.6G	Aux Aux Aux Aux Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Left Edge  Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Back Surface	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  0  0  0  0  0  0  0  0  0  0	78 78 78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138 138 106 114	(MHz) 2480 2480 2480 2480 2480 Freq. (MHz) 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5530 5690 5570	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  15.00  15.00  15.00  15.00  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 Measured Avg. Power (dBm) 14.99 14.99 14.99 14.99 14.99 14.99 14.99 14.99 14.99 14.99	1.297 1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 0.995 0.838 0.961 0.278	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G  Repeted  WLAN 802.11ac(80M) 5.6G	Aux Aux Antenna Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  0  Distance (mm)  0  0  0  0  0  0  0  0  0	78 78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138 138 106 138 106	(MHz) 2480 2480 2480 2480 2480 Freq. (MHz) 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5530 5690 5530	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  15.00  15.00  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 Measured Avg. Power (dBm) 14.99 14.99 14.96	1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% Power scaling 100.46% 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.93%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 0.995 0.838 0.961	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(160M) 5.6G  WLAN 802.11ac(160M) 5.6G  WLAN 802.11ac(160M) 5.6G	Aux Aux Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Left Edge  Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Back Surface	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  0  0  0  0  0  0  0  0  0  0	78 78 78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138 138 106 114	(MHz) 2480 2480 2480 2480 2480 Freq. (MHz) 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5530 5690 5570	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  15.00  15.00  15.00  15.00  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 Measured Avg. Power (dBm) 14.99 14.99 14.99 14.99 14.99 14.99 14.99 14.99 14.99 14.99	1.297 1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014 Duty cycle scaling 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23%	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 0.995 0.838 0.961 0.278	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G WLAN 802.11ac(160M) 5.2G WLAN 802.11ac(160M) 5.2G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(160M) 5.6G	Aux	Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Left Edge	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  0  0  0  0  0  0  0  0  0  0  0  0	78 78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138 138 106 118 114 114	(MHz) 2480 2480 2480 2480 Freq. (MHz) 5250 5250 5250 5250 5250 5290 Freq. (MHz) 5690 5690 5690 5530 5690 5570	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  13.50  13.50  13.50  13.50  13.50  15.00  15.00  15.00  15.00  15.00  15.00  15.00  15.00  15.00  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 13.48 14.49 14.99 14.99 14.99 14.99 14.99 14.99	scaling 1.297 1.297 1.297 1.297 1.297 Duty cycle scaling 1.014 1.014 1.014 1.016	scaling 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23%	Measured 0.001 0.001 0.0171 Averaged SAR Measured 0.107 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 0.995 0.838 0.961 0.278 0.070 1.010	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(160M) 5.6G  WLAN 802.11ac(160M) 5.6G  WLAN 802.11ac(160M) 5.6G  WLAN 802.11ac(160M) 5.6G	Aux Aux Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Position  Back Surface Top Edge Left Edge  Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Left Edge Top Edge Left Edge Left Edge Left Edge Left Edge Left Edge Top Edge	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)	78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 Channel 138 138 106 138 106 114 114	(MHz) 2480 2480 2480 2480 2480 Freq. (MHz) 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5530 5570 5570 Freq.	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  15.00  15.00  15.00  15.00  15.00  15.00  15.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 13.95 13.95 13.95 Measured Avg. Power (dBm) 14.48 13.48 13.48 Measured Avg. Power (dBm) 14.99 14.96 14.99 14.96 14.99	scaling 1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014 1.016 1.014 1.014 1.014 1.014	scaling 102.80% 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% Power scaling 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23% Power	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 0.995 0.838 0.961 0.278 0.070 1.010 0.978 Averaged SAR	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(160M) 5.6G  Repeted	Aux Aux Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge	(mm)  0 0 0 0 Distance (mm) 0 0 Distance (mm) 0 Distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78 78 78 78 78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 138 106 1138 106 114 114 114 114	(MHz) 2480 2480 2480 2480 2480 Freq. (MHz) 5250 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5690 5530 56570 5570 5570	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  15.00  15.00  15.00  15.00  15.00  Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm) 10.38 10.38 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 Measured Avg. Power (dBm) 14.99	scaling 1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014  Duty cycle scaling 1.016	scaling 102.80% 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23%	Measured 0.001 0.001 0.001 0.171 Averaged SAR Measured 0.107 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 0.995 0.838 0.961 0.278 0.070 1.010 0.978	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(160M) 5.6G  Repeted	Aux Aux Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge Position Back Surface Top Edge Left Edge	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)	78 78 78 78 78 78 78 78 78 Channel 50 50 50 Channel 58 58 58 138 106 1138 106 114 114 114 114	(MHz) 2480 2480 2480 2480 2480 Freq. (MHz) 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5530 5570 5570 Freq.	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  15.00  15.00  15.00  15.00  15.00  15.00  15.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00	Avg. Power (dBm) 10.38 10.38 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 13.95 13.95 13.95 Measured Avg. Power (dBm) 14.48 13.48 13.48 Measured Avg. Power (dBm) 14.99 14.96 14.99 14.96 14.99	scaling 1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014 1.016 1.014 1.014 1.014 1.014	scaling 102.80% 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% Power scaling 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23% Power	Measured 0.001 0.001 0.171 Averaged S (W. Measured 0.133 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 0.995 0.838 0.961 0.278 0.070 1.010 0.978 Averaged SAR	Reported	
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)  Mode  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.2G  WLAN 802.11ac(160M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.3G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(80M) 5.6G  WLAN 802.11ac(160M) 5.6G  MLAN 802.11ac(160M) 5.6G  WLAN 802.11ac(160M) 5.6G  MLAN 802.11ac(160M) 5.6G	Aux Aux Aux Aux Aux Aux Aux Aux Antenna Aux	Back Surface Top Edge Left Edge Position  Back Surface Top Edge Left Edge Position  Back Surface Top Edge Left Edge	(mm)  0  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  0  Distance (mm)  0  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)  0  Distance (mm)	78 78 78 78 78 78 78 78 Channel 50 50 50 Channel 138 138 138 106 138 106 114 114 114 Channel	(MHz) 2480 2480 2480 2480 2480 Freq. (MHz) 5250 5250 5250 Freq. (MHz) 5290 5290 Freq. (MHz) 5690 5690 5530 5570 5570 Freq. (MHz)	Power + Max. Tolerance (dBm)  10.50  10.50  10.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  14.00  14.00  Max. Rated Avg. Power + Max. Tolerance (dBm)  13.50  13.50  Max. Rated Avg. Power + Max. Tolerance (dBm)  15.00  Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power (dBm) 10.38 10.38 10.38 10.38 10.38 Measured Avg. Power (dBm) 13.95 13.95 13.95 Measured Avg. Power (dBm) 13.48 13.48 13.48 13.48 Measured Avg. Power (dBm) 14.99 14.96 14.99 14.99 14.99 14.99 14.99 Measured Avg. Power (dBm) 14.99 14.99 14.99 14.99 14.99 14.99 Measured Avg. Power (dBm) Measured Avg. Power (dBm) 14.99 14.99 Measured Avg. Power (dBm)	scaling 1.297 1.297 1.297 1.297 1.297  Duty cycle scaling 1.014 1.014 1.014 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.016 1.014 1.014 1.014 1.014 1.014 1.014 Duty cycle scaling	scaling 102.80% 102.80% 102.80% 102.80% 102.80% Power scaling 101.16% 101.16% 101.46% Power scaling 100.46% 100.46% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23% 100.23%	Measured 0.001 0.001 0.171 Averaged S (W) Measured 0.103 0.058 0.589 Averaged SAR Measured 0.107 0.058 0.571 Averaged SAR Measured 0.290 0.077 Averaged SAR 0.077 0.070 1.010 0.978 Averaged SAR	Reported	- 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10

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

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

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Page: 67 of 139

## WIFI 6E Notehook mode

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Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	_	over 1g (W/kg)		W/m^2 (4cm^2)	ID
			` ′		` '	Tolerance (dBm)	(dBm)	Ĭ,	, and the second	Measured	Reported	Measured	Reported	
J-NII-5 6.2GHz802.11ax(160M)	Mian	Bottom Surface	0	15	6025	13.50	13.49	1.011	100.23%	0.085	0.086	0.788	0.799	025
J-NII-5 6.2GHz802.11ax(160M)	Mian	Bottom Surface	0	79	6345	13.50	13.48	1.011	100.46%	0.104	0.106	1.000	1.016	026
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)		W/m^2 (4cm^2)	ID
			` '		` '	Tolerance (dBm)	(dBm)	Ť	, and the second	Measured	Reported	Measured	Reported	
J-NII-6 6.5GHz802.11ax(160M)	Mian	Bottom Surface	0	111	6505	13.50	13.47	1.011	100.69%	0.099	0.101	0.969	0.986	027
Mode	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	Scaling	Juling	Measured	Reported	Measured	Reported	
J-NII-7 6.7GHz802.11ax(160M)	Mian	Bottom Surface	0	143	6665	13.50	13.48	1.011	100.46%	0.127	0.129	1.250	1.270	028
Mode	Antenna	Position	Distance (mm)	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	Scaling	Scaling	Measured	Reported	Measured	Reported	
-NII-8 7.0GHz 802.11ax (160M)	Mian	Bottom Surface	0	207	6985	13.50	13.46	1.011	100.93%	0.111	0.113	1.010	1.031	029
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	Scaling	Scaling	Measured	Reported	Measured	Reported	
J-NII-5 6.2GHz802.11ax(160M)	Aux	Bottom Surface	0	15	6025	13.50	13.46	1.011	100.93%	0.110	0.112	1.040	1.061	030
J-NII-5 6.2GHz802.11ax(160M)	Aux	Bottom Surface	0	79	6345	13.50	13.49	1.011	100.23%	0.107	0.108	0.982	0.995	031
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			()		(1411 12)	Tolerance (dBm)	(dBm)	county	ocamig	Measured	Reported	Measured	Reported	
J-NII-6 6.5GHz802.11ax(160M)	Aux	Bottom Surface	0	111	6505	13.50	13.48	1.011	100.46%	0.127	0.129	1.150	1.168	032
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			` ′		` '	Tolerance (dBm)	(dBm)	ŭ	ŭ	Measured	Reported	Measured	Reported	
J-NII-7 6.7GHz802.11ax(160M)	Aux	Bottom Surface	0	175	6825	13.50	13.49	1.011	100.23%	0.179	0.181	1.570	1.591	033
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	eraged SAR over 1g (W/kg) Estimated APD W/m^2 (4cm^2		W/m^2 (4cm^2)	ID
			` ′		. ,	Tolerance (dBm)	(dBm)	Ů	Ů	Measured	Reported	Measured	Reported	
J-NII-8 7.0GHz 802.11ax (160M)	Aux	Bottom Surface	0	207	6985	13.50	13.49	1.011	100.23%	0.144	0.146	1.250	1.267	034

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

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Page: 68 of 139

## **Tablet mode**

Tablet IIIou	·													
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR	over 1g (W/kg)	Estimated APD	W/m^2 (4cm^2)	ID
			` ′		` ′	Tolerance (dBm)	(dBm)	Ť	, and the same of	Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz802.11ax(160M)	Main	Back Surface	0	15	6025	13.00	12.99	1.011	100.23%	0.212	0.215	1.73	1.753	•
U-NII-5 6.2GHz802.11ax(160M)	Main	Back Surface	0	79	6345	13.00	12.98	1.011	100.46%	0.209	0.212	1.71	1.737	•
U-NII-5 6.2GHz802.11ax(160M)	Main	Top Edge	0	15	6025	13.00	12.99	1.011	100.23%	0.001	0.001	0.001	0.001	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Top Edge	0	79	6345	13.00	12.98	1.011	100.46%	0.001	0.001	0.001	0.001	-
U-NII-5 6.2GHz802.11ax(160M)	Main	Right Edge	0	15	6025	13.00	12.99	1.011	100.23%	0.406	0.411	3.20	3.243	035
U-NII-5 6.2GHz802.11ax(160M)	Main	Right Edge	0	79	6345	13.00	12.98	1.011	100.46%	0.455	0.462	3.73	3.788	036
Mode	Antenna	Position	Distance (mm)	Channel	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 Measured	W/m^2 (4cm^2)	ID
U-NII-6 6.5GHz802.11ax(160M)	Main	Back Surface	0	111	6505	13.00	12.98	1.011	100.46%	0.241	0.245	2.00	2.031	
U-NII-6 6.5GHz802.11ax(160M)	Main	Top Edge	0	111	6505	13.00	12.98	1.011	100.46%	0.241	0.245	0.00	0.001	
U-NII-6 6.5GHz802.11ax(160M)	Main	Right Edge	0	111	6505	13.00	12.98	1.011	100.46%	0.413	0.001	3.47	3.524	037
0-NII-0 0.5GH2002: 11ax(100W)	IVIdIII	Right Eage		- '''	0303	13.00	12.90	1.011	100.40%	0.413	0.419	3.47	3.324	037
Mode	Antenna	Position	Distance (mm)	Channel	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 Measured	W/m^2 (4cm^2) Reported	ID
U-NII-7 6.7GHz802.11ax(160M)	Main	Back Surface	0	143	6665	13.00	12.99	1.011	100.23%	0.239	0.242	2.02	2.048	
U-NII-7 6.7GHz802.11ax(160M)	Main	Top Edge	0	143	6665	13.00	12.99	1.011	100.23%	0.239	0.242	0.001	0.001	
U-NII-7 6.7GHz802.11ax(160M)	Main	Right Edge	0	143	6665	13.00	12.99	1.011	100.23%	0.487	0.493	4.12	4.175	038
U-NII-7 6.7GMZ0UZ.TTAX(TOUNI)	Main	Right Edge	U	143	0000	13.00	12.99	1.011	100.23%	0.467	0.493	4.12	4.175	036
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		over 1g (W/kg)		W/m^2 (4cm^2)	ID
						. ,				Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax (160M)	Main	Back Surface	0	207	6985	13.00	12.97	1.011	100.69%	0.265	0.270	2.11	2.148	-
U-NII-8 7.0GHz 802.11ax (160M)	Main	Top Edge	0	207	6985	13.00	12.97	1.011	100.69%	0.001	0.001	0.001	0.001	
U-NII-8 7.0GHz 802.11ax (160M)	Main	Right Edge	0	207	6985	13.00	12.97	1.011	100.69%	0.511	0.520	4.08	4.153	039
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		over 1g (W/kg)		W/m^2 (4cm^2)	ID
		D 10 /		47	0405	. ,	, ,	4.044	400 400/	Measured	Reported	Measured	Reported	
U-NII-5 6.2GHz802.11ax(160M)	Aux	Back Surface	0	47 79	6185 6345	12.50 12.50	12.48 12.46	1.011	100.46%	0.126 0.143	0.128 0.146	1.01	1.026	-
U-NII-5 6.2GHz802.11ax(160M) U-NII-5 6.2GHz802.11ax(160M)	Aux	Back Surface	0	47	6185	12.50	12.46	1.011	100.93%	0.143	0.146	0.001	0.001	-
U-NII-5 6.2GHz802.11ax(160M)	Aux	Top Edge Top Edge	0	79	6345	12.50	12.46	1.011	100.46%	0.001	0.001	0.001	0.001	
U-NII-5 6.2GHz802.11ax(160M)	Aux	Left Edge	0	15	6025	12.50	12.40	1.011	100.93%	0.463	0.476	3.47	3.565	040
U-NII-5 6.2GHz802.11ax(160M)	Aux	Left Edge	0	47	6185	12.50	12.43	1.011	101.62%	0.453	0.476	3.47	3.565	040
U-NII-5 6.2GHz802.11ax(160M)	Aux	Left Edge	0	79	6345	12.50	12.46	1.011	100.46%	0.482	0.459	3.87	3.949	041
Mode	Antenna	Position Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power		over 1g (W/kg)		3.949 W/m^2 (4cm^2)	ID
Wode	Antenna	Position	(mm)	Chamie	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Measured	Reported	ID
U-NII-6 6.5GHz802.11ax(160M)	Aux	Back Surface	0	111	6505	12.50	12.48	1.011	100.46%	0.174	0.177	1.36	1.381	
U-NII-6 6.5GHz802.11ax(160M)	Aux	Top Edge	0	111	6505	12.50	12.48	1.011	100.46%	0.001	0.001	0.001	0.001	
U-NII-6 6.5GHz802.11ax(160M)	Aux	Left Edge	0	111	6505	12.50	12.48	1.011	100.46%	0.559	0.568	4.39	4.459	042
Mode	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power		over 1g (W/kg)		W/m^2 (4cm^2)	ID
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Measured	Reported	
U-NII-7 6.7GHz802.11ax(160M)	Aux	Back Surface	0	175	6825	12.50	12.49	1.011	100.23%	0.228	0.231	1.72	1.743	
U-NII-7 6.7GHz802.11ax(160M)	Aux	Top Edge	0	175	6825	12.50	12.49	1.011	100.23%	0.001	0.001	0.001	0.001	
U-NII-7 6.7GHz802.11ax(160M)	Aux	Left Edge	0	175	6825	12.50	12.49	1.011	100.23%	0.658	0.667	4.99	5.057	043
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling		over 1g (W/kg)		W/m^2 (4cm^2)	ID
11 NIII 0 7 OCUL 000 44 (4008 P	A	Deals Confess		207	CODE	. ,		4.044	404.400′	Measured	Reported	Measured	Reported	
U-NII-8 7.0GHz 802.11ax (160M)	Aux	Back Surface	0	207	6985 6985	12.50	12.45	1.011	101.16%	0.179	0.183	1.33 0.001	1.360 0.001	
U-NII-8 7.0GHz 802.11ax (160M)	Aux	Top Edge		207		12.50	12.45	1.011	101.16%	0.001	0.001			-
U-NII-8 7.0GHz 802.11ax (160M)	Aux	Left Edge	0	207	6985	12.50	12.45	1.011	101.16%	0.618	0.632	4.61	4.715	044

### Note:

Reported SAR = measured SAR \* Power scaling \* Duty cycle scaling Reported APD = measured APD \* Power scaling \* Duty cycle scaling

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Page: 69 of 139

# **Summary of PD Results**

		B: 4		_	Max. Rated Avg.	Measured	_				PD res	ult(4cm)		
Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	Measured Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	ID
WLAN 6E 802.11ax(160M)	Right Edge	2	15	6025	13.50	13.49	100.23%	1.011	1.55	5.230	8.215	2.970	4.665	045
U-NII-5	Right Edge	2	47	6185	13.50	13.47	100.69%	1.011	1.55	5.850	9.231	2.960	4.671	046
802.11ax(160M)	Right Edge	2	111	6505	13.50	13.47	100.69%	1.011	1.55	4.070	6.422	2.770	4.371	047
₩ŁAN 6∟ 802.11ax(160M) ₩ŁAN 3⊨	Right Edge	2	143	6665	13.50	13.48	100.46%	1.011	1.55	5.290	8.328	2.520	3.967	048
802.11ax(160M)	Right Edge	2	207	6985	13.50	13.46	100.93%	1.011	1.55	4.890	7.734	2.730	4.318	049
											PD resi	-14/4>		
				_	Max. Rated Avg.	Measured	_				PD resi	uii(4cm)		
Mode	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	Measured Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Reported Normal psPD (W/m^2)	ID
WLAN 6E	Position  Left Edge		Channel 15		Power + Max.	Avg. Power				Total psPD	Reported Total psPD	Measured Normal psPD	Normal psPD	ID 050
WLAN 6E 802.11ax(160M) U-NII-5		(mm)		(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling	scaling	uncertainty	Total psPD (W/m^2)	Reported Total psPD (W/m^2)	Measured Normal psPD (W/m^2)	Normal psPD (W/m^2)	
WLAN 6E 802.11ax(160M) U-NII-5 VVLAN 0E 802.11ax(160M)	Left Edge	(mm) 2	15	(MHz) 6025	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Scaling 100.93%	scaling 1.011	uncertainty 1.55	Total psPD (W/m^2) 3.930	Reported Total psPD (W/m^2) 6.215	Measured Normal psPD (W/m^2) 2.280	Normal psPD (W/m^2) 3.606	050
WLAN 6E 802.11ax(160M) U-NII-5	Left Edge Left Edge	(mm) 2 2	15 79	(MHz) 6025 6345	Power + Max. Tolerance (dBm) 13.50	Avg. Power (dBm) 13.46 13.49	Scaling 100.93% 100.23%	1.011 1.011	1.55 1.55	Total psPD (W/m^2) 3.930 4.630	Reported Total psPD (W/m^2) 6.215 7.272	Measured Normal psPD (W/m^2) 2.280 2.720	Normal psPD (W/m^2) 3.606 4.272	050 051

Note:

Reported PD = measured PD \* Power scaling \* Duty cycle scaling \* Uncertainty scaling

#### 8.4 Reporting statements of conformity

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

#### 8.5 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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Page: 70 of 139

# SIMULTANEOUS TRANSMISSION ANALYSIS

#### 9.1 Simultaneous Transmission Scenarios:

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

#### Note:

- 1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.
- 2. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission 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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Page: 71 of 139

### 9.2 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.

# 9.3 SPLSR evaluation and analysis

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

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

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

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

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

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Page: 72 of 139

## **Simultaneous Transmission Combination**

					FCC Reported SAR	:			Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8
		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 Posi	tion	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Mian	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	0	0.128	0.233	0.377	0.410	0.012	0.129	0.181	0.361	0.787	0.140	0.389	0.799	0.141	0.310	0.322
Back Surface	0	0.153	0.178	0.401	0.295	0.001	0.270	0.231	0.331	0.696	0.154	0.402	0.697	0.271	0.501	0.502
Top Edge	0	0.001	0.001	0.072	0.078	0.001	0.001	0.001	0.002	0.150	0.002	0.073	0.151	0.002	0.002	0.003
Left Edge	0		1.110	-	1.027	0.228	-	0.667	1.110	1.027	0.228	0.228	1.255	0.228	0.667	0.895
Right Edge	0	0.589	-	0.800		-	0.520	-	0.589	0.800	0.589	0.800	0.800	0.520	0.520	0.520

## 9.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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Page: 73 of 139

# 10 INSTRUMENTS LIST

Equipment List							
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration		
SPEAG	Data acquisition Electronics	DAE4	1751	Oct/10/2022	Oct/09/2023		
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Mar/21/2022	Mar/20/2023		
SPEAG	E-field Probe for Near Field Application	EUmmWV4	9616	Mar/20/2022	Mar/19/2023		
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023		
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023		
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/23/2022	Aug/22/2023		
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/24/2022	Aug/23/2023		
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/24/2022	Jan/23/2023		
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023		
Agilent	MXG Analog Signal Generator	N5181A	MY50144143	May/19/2022	May/18/2023		
Agilent	Dual-directional coupler	772D	MY52180142	Oct/19/2022	Oct/18/2023		
Agilent	Dual-directional coupler	778D	MY52180302	Oct/19/2022	Oct/18/2023		
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required		
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required		
R&S	Power Sensor	NRP18S	101973	Jan/22/2022	Jan/21/2023		
R&S	Power Meter	NRX	102191	Jan/22/2022	Jan/21/2023		
R&S	Power Sensor	NRP18S	101358	Jan/22/2022	Jan/21/2023		
07710	0.5	DASY 8	21.12	Calibration not	Calibration not		
SPEAG	Software	V16.0.2.83	N/A	required	required		
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration not required		
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required		
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required		
LKM	Digital thermometer	DTM3000	EC14010603	Sep/27/2022	Sep/26/2023		
TECPEL	Digital thermometer	DTM-303A	TP130077	Sep/29/2022	Sep/28/2023		

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Page: 74 of 139

# 11 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%	8
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%	80
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	00
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%	00
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%	80
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	8
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%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	80
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	8
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
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%	00
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	œ
Liquid permittivity (mea.)	3.14%	N	1	1	0.64	0.43	2.01%	1.35%	М
Liquid Conductivity (mea.)	3.51%	N	1	1	0.6	0.49	2.11%	1.72%	М
Combined standard uncertainty		RSS					12.07%	11.91%	
Expant uncertainty (95% confidence interval), K=2		_					24.14%	23.82%	

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Page: 75 of 139

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

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	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%	~
lsotropy , 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%	8
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	8
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	8
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	8
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	8
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	8
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	~
Liquid permittivity (mea.)	2.78%	N	1	1	0.64	0.43	1.78%	1.20%	М
Liquid Conductivity (mea.)	4.97%	N	1	1	0.6	0.49	2.98%	2.44%	М
Combined standard uncertainty		RSS					11.93%	11.73%	
Expant uncertainty (95% confidence interval), K=2							23.87%	23.45%	

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Page: 76 of 139

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

	(	10.0		· · · · · ·			9•/	
а	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	0.667	R	√3	1.732	1	1	0.4	0.4
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8
	_							

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Page: 77 of 139

# cDASY6 Module mmWave Uncertainty Budget for PD Evaluation Distances to the Antennas ≧λ/ 5 In Compliance with IEC/IEEE 63195

а	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		
Incertainty terms dependent on the measurement system									
Probe calibration	0.49	N	1	1	1	0.49	œ		
Probe correction	0.00	R	√3	1.732	1	0.00	00		
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	∞		
Linearity	0.20	R	√3	1.732	1	0.12	œ		
Probe scattering	0.00	R	√3	1.732	1	0.00	∞0		
Probe positioning offset	0.30	R	√3	1.732	1	0.17	00		
Probe positioning repeatability	0.04	R	√3	1.732	1	0.02	∞		
Sensor mechanical offset	0.00	R	√3	1.732	1	0.00	00		
Probe spatial resolution	0.00	R	√3	1.732	1	0.00	∞		
Field impedance dependance	0.00	R	√3	1.732	1	0.00	∞		
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	∞		
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	∞		
Uncertainty terms dependent on the	e DUT and envir	onmental facto	ors						
Probe coupling with DUT	0.00	R	√3	1.732	1	0.00	∞		
Modulation response	0.40	R	√3	1.732	1	0.23	∞		
Integration time	0.00	R	√3	1.732	1	0.00	œ		
Response time	0.00	R	√3	1.732	1	0.00	∞		
Device holder influence	0.10	R	√3	1.732	1	0.06	∞		
DUT alignment	0.00	R	√3	1.732	1	0.00	œ		
RF ambient conditions	0.04	R	√3	1.732	1	0.02	00		
Ambient reflections	0.04	R	√3	1.732	1	0.02	œ		
Immunity / secondary reception	0.00	R	√3	1.732	1	0.00	∞		
Drift of the DUT	-	R	√3	1.732	1	-	œ		
Combined Std. uncertainty						1.33			
Expanded Std. uncertainty (95% confidence interval), K=2						2.67			

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Page: 78 of 139

# 12 SAR MEASUREMENT RESULTS

ID: 001

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11b\_Body\_Bottom Surface\_CH 11\_0mm\_Main

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2462.0, 11	8.16	1.899	40.272

**Hardware Setup** 

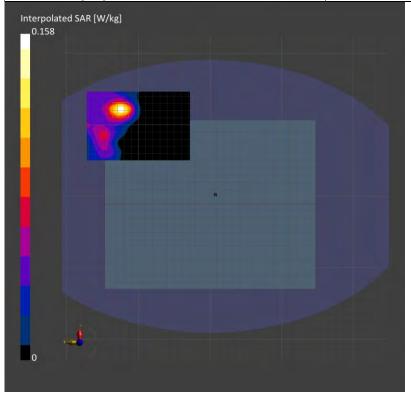
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-2	2022-12-2
psSAR1g [W/kg]	0.119	0.126
psSAR8g [W/kg]	0.062	0.068
psSAR10g [W/kg]	0.056	0.062
Power Drift [dB]	0.06	0.03
M2/M1 [%]		56.9
Dist 3dB Peak [mm]		10.0



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Page: 79 of 139

ID: 002

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11n(40M) 5.2G\_Body\_Bottom Surface\_CH 46\_0mm\_Main

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Bottom Surface, 0.00	5230.0, 46	5.94	4.853	37.038

Hardware Setup

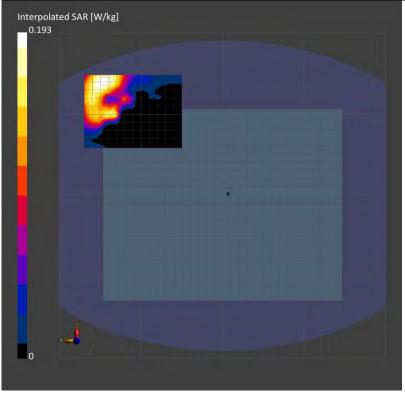
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	0.147	0.142
psSAR8g [W/kg]	0.071	0.072
psSAR10g [W/kg]	0.065	0.066
Power Drift [dB]	0.01	0.03
M2/M1 [%]		62.9
Dist 3dB Peak [mm]		21.5



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Page: 80 of 139

ID: 003

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11n(40M) 5.3G\_Body\_Bottom Surface\_CH 54\_0mm\_Main

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	Flat, HSL	Bottom Surface, 0.00	5270.0, 54	5.94	4.895	36.993

Hardware Setup

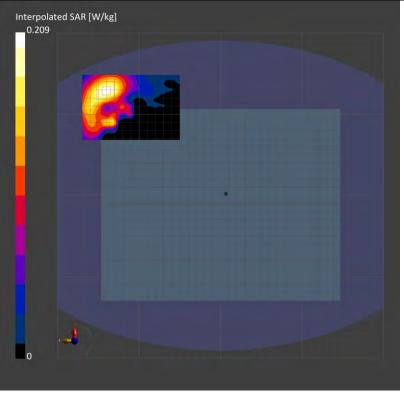
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

_	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	0.156	0.155
psSAR8g [W/kg]	0.075	0.077
psSAR10g [W/kg]	0.068	0.070
Power Drift [dB]	0.04	0.01
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		13.7



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Page: 81 of 139

ID: 004

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.6G\_Body\_Bottom Surface\_CH 138\_0mm\_Main

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

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Bottom Surface, 0.00	5690.0, 138	5.45	5.34	36.513

Hardware Setup

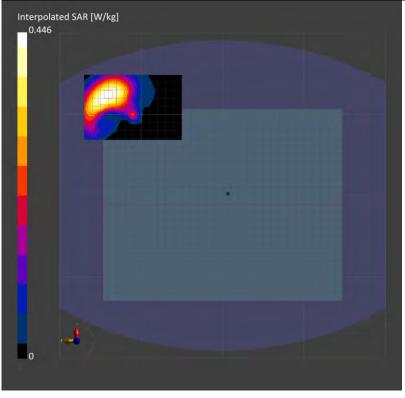
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

_	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.344	0.343
psSAR8g [W/kg]	0.167	0.170
psSAR10g [W/kg]	0.153	0.156
Power Drift [dB]	-0.01	0.01
M2/M1 [%]		58.9
Dist 3dB Peak [mm]		15.4



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Page: 82 of 139

ID: 005

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.8G\_Body\_Bottom Surface\_CH 155\_0mm\_Main

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5775.0, 155	5.45	5.429	36.416

**Hardware Setup** 

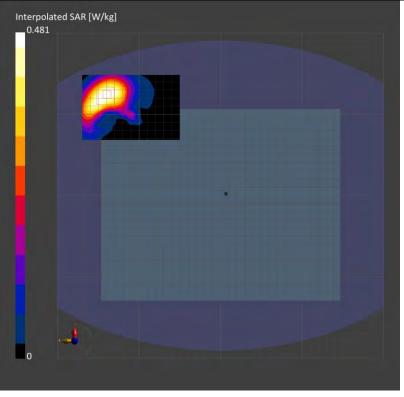
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

_	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.372	0.364
psSAR8g [W/kg]	0.180	0.181
psSAR10g [W/kg]	0.165	0.166
Power Drift [dB]	0.23	1.04
M2/M1 [%]		58.8
Dist 3dB Peak [mm]		11.2



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Page: 83 of 139

ID: 006

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11b\_Body\_Bottom Surface\_CH 1\_0mm\_Aux

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

**Exposure Conditions Hardware Setup** 

Phantom Section, TSI	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2412.0, 1	8.16	1.854	40.355

**Hardware Setup** 

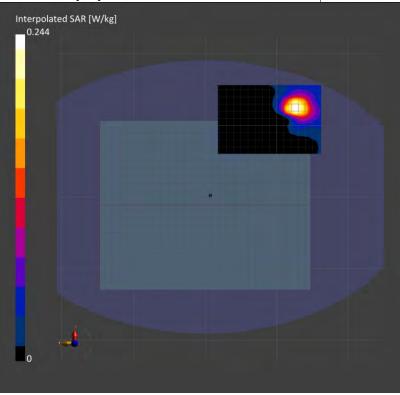
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan	
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0	
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0	
Sensor Surface [mm]	3.0	1.4	

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-2	2022-12-2
psSAR1g [W/kg]	0.197	0.222
psSAR8g [W/kg]	0.111	0.126
psSAR10g [W/kg]	0.102	0.115
M2/M1 [%]		60.1
Dist 3dB Peak [mm]		10.0



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Page: 84 of 139

ID: 007

Report No.: TESA2211000493E5

Measurement Report for N20Q11, Bluetooth(GFSK)\_Body\_Bottom Surface\_CH 78\_0mm\_Aux

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2480.0, 78	8.16	1.915	40.249

**Hardware Setup** 

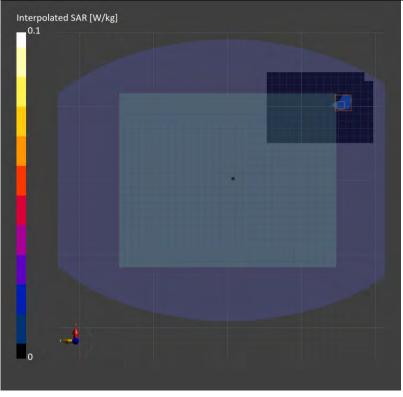
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-2	2022-12-2
psSAR1g [W/kg]	0.009	0.009
psSAR8g [W/kg]	0.005	0.004
psSAR10g [W/kg]	0.005	0.004
Power Drift [dB]	-0.02	0.04
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		7.7



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Page: 85 of 139

ID: 008

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11n(40M) 5.2G\_Body\_Bottom Surface\_CH 46\_0mm\_Aux

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5230.0, 46	5.94	4.853	37.038

**Hardware Setup** 

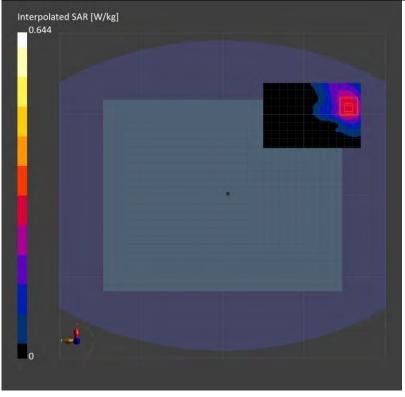
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	0.242	0.252
psSAR8g [W/kg]	0.119	0.126
psSAR10g [W/kg]	0.109	0.116
Power Drift [dB]	-0.04	0.02
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		11.9



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Page: 86 of 139

ID: 009

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11n(40M) 5.3G\_Body\_Bottom Surface\_CH 54\_0mm\_Aux

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5270.0, 54	5.94	4.895	36.993

Hardware Setup

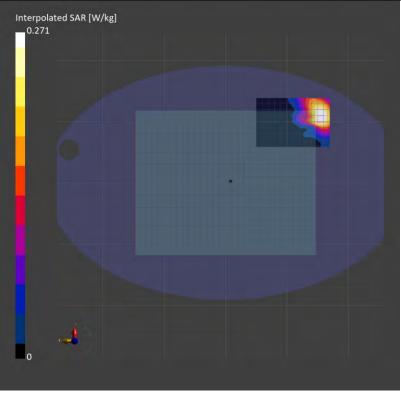
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

_	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	0.206	0.214
psSAR8g [W/kg]	0.102	0.108
psSAR10g [W/kg]	0.094	0.099
Power Drift [dB]	-0.05	0.06
M2/M1 [%]		61.7
Dist 3dB Peak [mm]		9.4



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Page: 87 of 139

ID: 010

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.6G\_Body\_Bottom Surface\_CH 138\_0mm\_Aux

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

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Bottom Surface, 0.00	5690.0, 138	5.45	5.34	36.513

**Hardware Setup** 

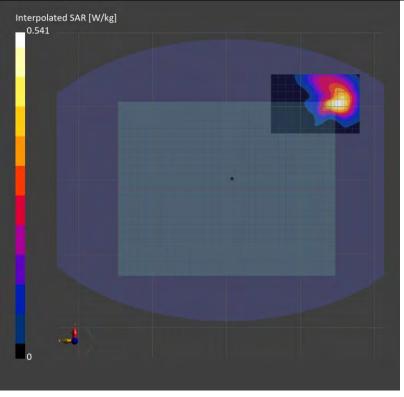
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.397	0.402
psSAR8g [W/kg]	0.177	0.188
psSAR10g [W/kg]	0.161	0.170
Power Drift [dB]	-0.02	0.03
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		8.1



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Page: 88 of 139

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11n(40M) 5.8G\_Body\_Bottom Surface\_CH 151\_0mm\_Aux

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

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Bottom Surface, 0.00	5755.0, 151	5.45	5.408	36.438

**Hardware Setup** 

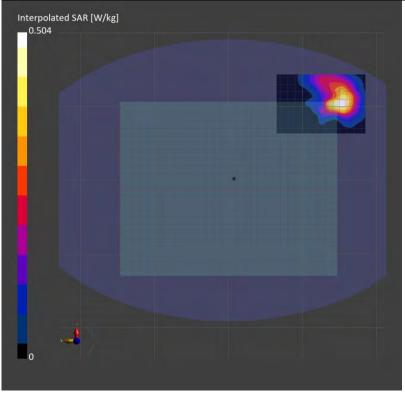
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.380	0.388
psSAR8g [W/kg]	0.171	0.182
psSAR10g [W/kg]	0.155	0.165
Power Drift [dB]	-0.06	0.01
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		9.7



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Page: 89 of 139

ID: 012

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11b\_Body\_Right Edge\_CH 6\_0mm\_Main

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

**Exposure Conditions** 

Phantom Section, TSL		Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	2437.0, 6	8.16	1.876	40.31

**Hardware Setup** 

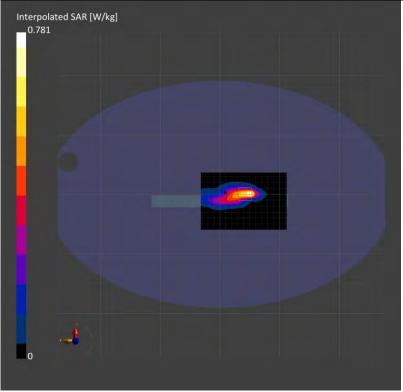
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-2	2022-12-2
psSAR1g [W/kg]	0.537	0.581
psSAR8g [W/kg]	0.258	0.262
psSAR10g [W/kg]	0.233	0.241
Power Drift [dB]	0.03	-0.03
M2/M1 [%]		57.6
Dist 3dB Peak [mm]		7.0



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Page: 90 of 139

ID: 013

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(160M) 5.2G\_Body\_Right Edge\_CH 50\_0mm\_Main

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5250.0, 50	5.94	4.874	37.016

**Hardware Setup** 

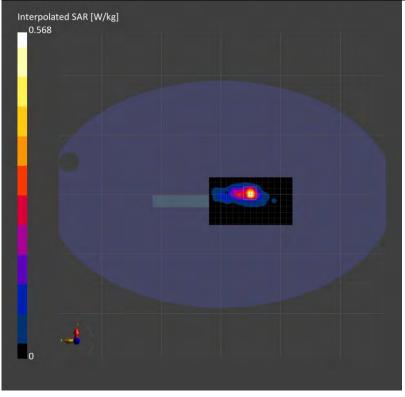
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	0.357	0.476
psSAR8g [W/kg]	0.130	0.154
psSAR10g [W/kg]	0.114	0.133
Power Drift [dB]	-0.01	-0.06
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		5.8



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Page: 91 of 139

ID: 014

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.3G\_Body\_Right Edge\_CH 58\_0mm\_Main

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5290.0, 58	5.94	4.916	36.97

**Hardware Setup** 

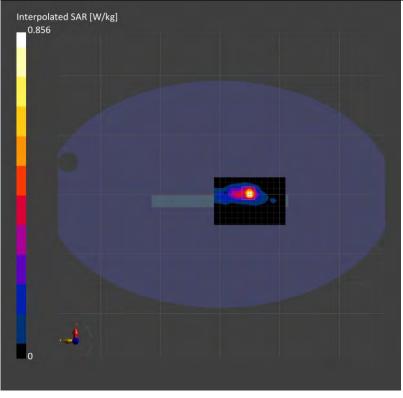
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	0.542	0.704
psSAR8g [W/kg]	0.196	0.228
psSAR10g [W/kg]	0.172	0.196
Power Drift [dB]	-0.04	-0.01
M2/M1 [%]		56.7
Dist 3dB Peak [mm]		5.7



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Page: 92 of 139

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.6G\_Body\_Right Edge\_CH 138\_0mm\_Main

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

**Exposure Conditions** 

Ph	antom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Fla	at, HSL	Right Edge, 0.00	5690.0, 138	5.45	5.34	36.513

Hardware Setup

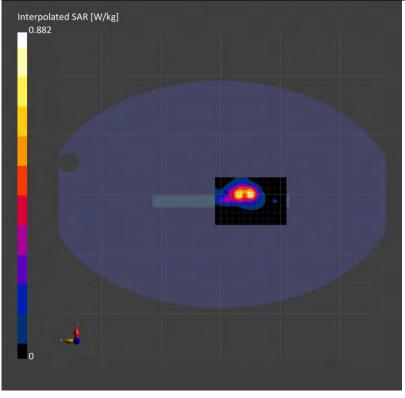
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

_	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.577	0.701
psSAR8g [W/kg]	0.231	0.242
psSAR10g [W/kg]	0.211	0.216
Power Drift [dB]	-0.02	0.02
M2/M1 [%]		61.0
Dist 3dB Peak [mm]		9.7



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Page: 93 of 139

ID: 016

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(160M) 5.6G\_Body\_Right Edge\_CH 114\_0mm\_Main

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5570.0, 114	5.29	5.213	36.65

**Hardware Setup** 

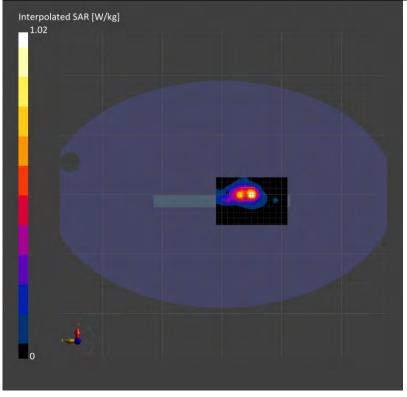
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.663	0.778
psSAR8g [W/kg]	0.253	0.270
psSAR10g [W/kg]	0.228	0.239
Power Drift [dB]	-0.06	0.05
M2/M1 [%]		63.2
Dist 3dB Peak [mm]		6.4



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Page: 94 of 139

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.8G\_Body\_Right Edge\_CH 155\_0mm\_Main

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	5775.0, 155	5.45	5.429	36.416

Hardware Setup

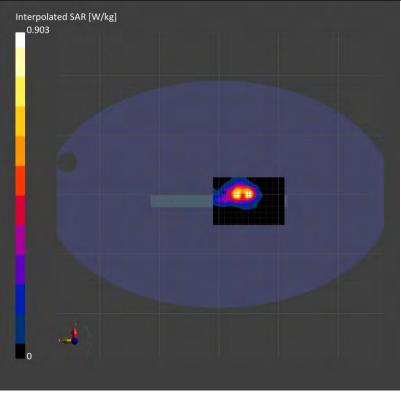
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

_	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.595	0.743
psSAR8g [W/kg]	0.243	0.272
psSAR10g [W/kg]	0.224	0.242
Power Drift [dB]	-0.02	-0.02
M2/M1 [%]		61.4
Dist 3dB Peak [mm]		9.3



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Page: 95 of 139

ID: 018

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11b\_Body\_Left Edge\_CH 11\_0mm\_Aux

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

**Exposure Conditions** 

Pł	antom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Fla	at, HSL	Left Edge, 0.00	2462.0, 11	8.16	1.899	40.272

Hardware Setup

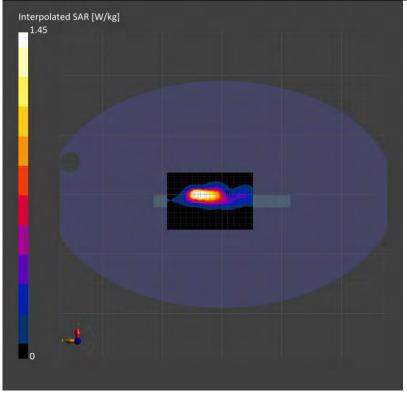
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-2	2022-12-2
psSAR1g [W/kg]	1.01	1.08
psSAR8g [W/kg]	0.472	0.471
psSAR10g [W/kg]	0.423	0.419
Power Drift [dB]	-0.06	-0.01
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		6.2



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Page: 96 of 139

ID: 019

Report No.: TESA2211000493E5

Measurement Report for N20Q11, Bluetooth(GFSK)\_Body\_Left Edge\_CH 78\_0mm\_Aux

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	2480.0, 78	8.16	1.915	40.249

**Hardware Setup** 

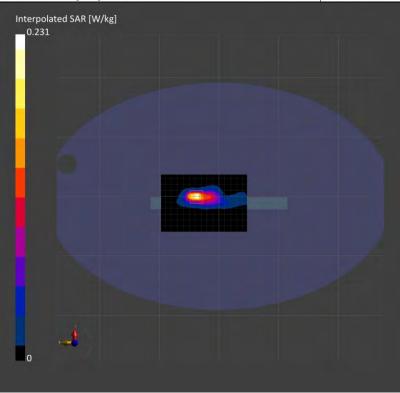
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-2	2022-12-2
psSAR1g [W/kg]	0.164	0.171
psSAR8g [W/kg]	0.077	0.073
psSAR10g [W/kg]	0.069	0.066
Power Drift [dB]	0.04	-0.03
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		5.9



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Page: 97 of 139

ID: 020

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(160M) 5.2G\_Body\_Left Edge\_CH 50\_0mm\_Aux

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

I	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
I	Flat, HSL	Left Edge, 0.00	5250.0, 50	5.94	4.874	37.016

Hardware Setup

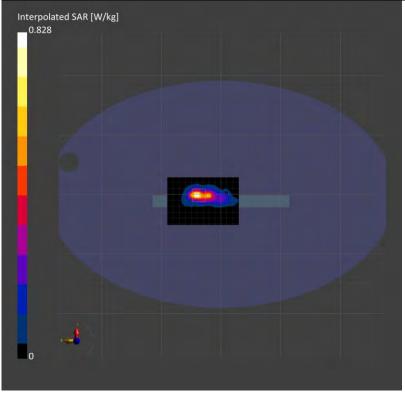
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	0.527	0.589
psSAR8g [W/kg]	0.192	0.196
psSAR10g [W/kg]	0.169	0.174
Power Drift [dB]	0.03	-0.05
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		6.1



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Page: 98 of 139

ID: 021

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.3G\_Body\_Left Edge\_CH 58\_0mm\_Aux

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5290.0, 58	5.94	4.916	36.97

Hardware Setup

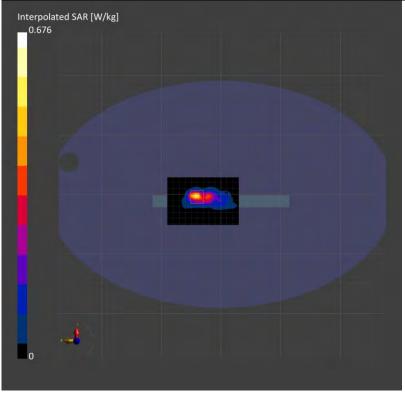
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	0.451	0.571
psSAR8g [W/kg]	0.170	0.189
psSAR10g [W/kg]	0.151	0.165
Power Drift [dB]	0.02	0.01
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		5.6



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Page: 99 of 139

ID: 022

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.6G\_Body\_Left Edge\_CH 106\_0mm\_Aux

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

**Exposure Conditions** 

I	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
I	Flat, HSL	Left Edge, 0.00	5530.0, 106	5.29	5.171	36.696

**Hardware Setup** 

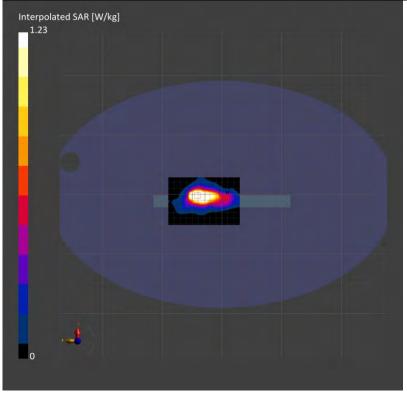
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.854	0.995
psSAR8g [W/kg]	0.340	0.358
psSAR10g [W/kg]	0.302	0.318
Power Drift [dB]	-0.04	0.02
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		6.4



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台灣檢驗科技股份有限公司



Page: 100 of 139

ID: 023

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(160M) 5.6G\_Body\_Left Edge\_CH 114\_0mm\_Aux

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5570.0, 114	5.29	5.213	36.65

Hardware Setup

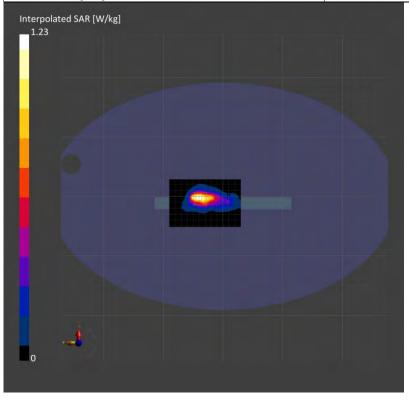
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

_	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

# **Measurement Results**

Area Scan	Zoom Scan
2022-12-4	2022-12-4
0.867	1.01
0.351	0.369
0.314	0.330
-0.01	0.06
	56.0
	6.8
	0.314



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Page: 101 of 139

ID: 024

Report No.: TESA2211000493E5

Measurement Report for N20Q11, WLAN 802.11ac(80M) 5.8G\_Body\_Left Edge\_CH 155\_0mm\_Aux

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

**Exposure Conditions** 

Phantom Section, T	SL Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	5775.0, 155	5.45	5.429	36.416

#### **Hardware Setup**

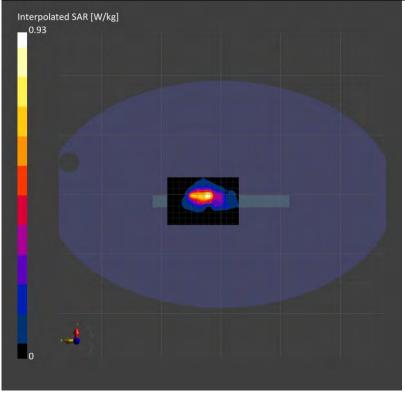
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

#### **Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	0.623	0.773
psSAR8g [W/kg]	0.249	0.275
psSAR10g [W/kg]	0.223	0.242
Power Drift [dB]	0.02	0.03
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		7.2



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Page: 102 of 139

ID: 025

Report No.: TESA2211000493E5

Measurement Report for U-NII-5 6.2GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 15\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6025.0, 15	5.6	5.695	36.128

**Hardware Setup** 

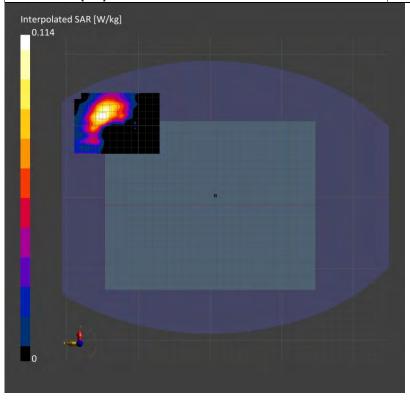
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.086	0.085
psSAR8g [W/kg]	0.040	0.039
psSAR10g [W/kg]	0.036	0.036
psPDab (4.0cm2, sq) [W/m2]		0.788
Power Drift [dB]	0.05	0.01
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		10.0



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Page: 103 of 139

ID: 026

Report No.: TESA2211000493E5

Measurement Report for U-NII-5 6.2GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 79\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Bottom Surface, 0.00	6345.0, 79	5.6	6.039	35.744

#### Hardware Setup

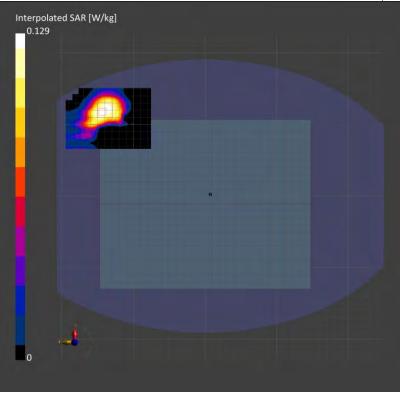
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

#### **Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.104	0.104
psSAR8g [W/kg]	0.050	0.050
psSAR10g [W/kg]	0.046	0.046
psPDab (4.0cm2, sq) [W/m2]		1.0
Power Drift [dB]	0.01	0.04
M2/M1 [%]		59.2
Dist 3dB Peak [mm]		11.6



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Page: 104 of 139

ID: 027

Report No.: TESA2211000493E5

Measurement Report for U-NII-6 6.5GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 111\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Bottom Surface, 0.00	6505.0, 111	5.6	6.213	35.552

**Hardware Setup** 

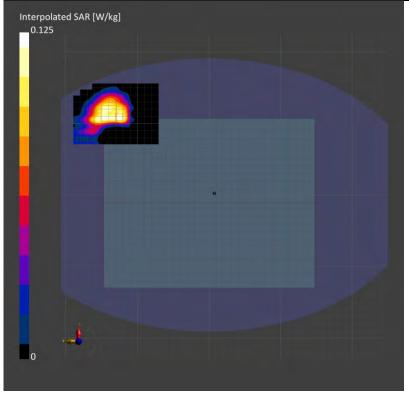
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan	
Grid Extents [mm]	85.0 x 119.0	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	

#### **Measurement Results**

Today of the records					
	Area Scan	Zoom Scan			
Date	2022-12-5	2022-12-5			
psSAR1g [W/kg]	0.095	0.099			
psSAR8g [W/kg]	0.046	0.048			
psSAR10g [W/kg]	0.042	0.044			
psPDab (4.0cm2, sq) [W/m2]		0.969			
Power Drift [dB]	0.06	0.01			
M2/M1 [%]		55.2			
Dist 3dB Peak [mm]		8.5			



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Page: 105 of 139

ID: 028

Report No.: TESA2211000493E5

Measurement Report for U-NII-7 6.7GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 143\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	Flat, HSL	Bottom Surface, 0.00	6665.0, 143	5.6	6.388	35.36

Hardware Setup

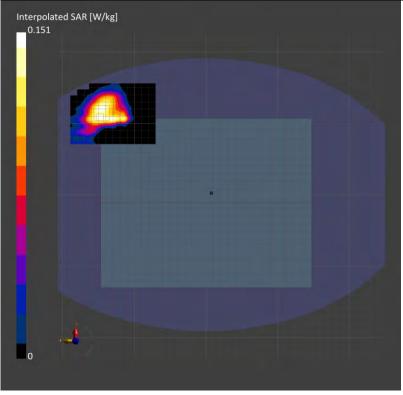
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan	
Grid Extents [mm]	85.0 x 119.0	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	

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.121	0.127
psSAR8g [W/kg]	0.059	0.063
psSAR10g [W/kg]	0.054	0.057
psPDab (4.0cm2, sq) [W/m2]		1.25
Power Drift [dB]	0.02	-0.02
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		6.1



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Page: 106 of 139

ID: 029

Report No.: TESA2211000493E5

Measurement Report for U-NII-8 7.0GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 207\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section,	TSL Position, Test Distance	[mm] Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6985.0, 207	5.7	6.74	34.976

# **Hardware Setup**

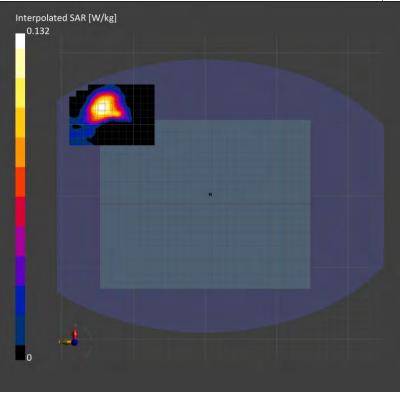
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

#### **Scans Setup**

	Area Scan	Zoom Scan	
Grid Extents [mm]	85.0 x 119.0	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	

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.113	0.111
psSAR8g [W/kg]	0.051	0.050
psSAR10g [W/kg]	0.047	0.046
psPDab (4.0cm2, sq) [W/m2]		1.01
Power Drift [dB]	0.06	0.02
M2/M1 [%]		56.6
Dist 3dB Peak [mm]		12.0



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Page: 107 of 139

ID: 030

Report No.: TESA2211000493E5

Measurement Report for U-NII-5 6.2GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 15\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phanto	om Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, H	SL	Bottom Surface, 0.00	6025.0, 15	5.6	5.695	36.128

# **Hardware Setup**

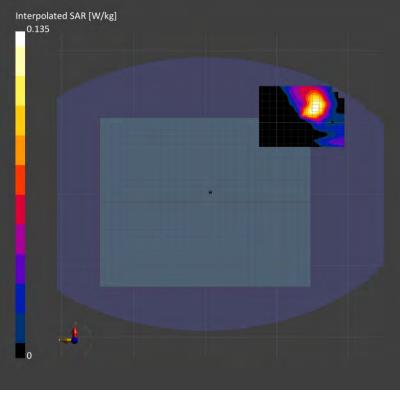
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

# **Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.103	0.110
psSAR8g [W/kg]	0.046	0.052
psSAR10g [W/kg]	0.042	0.047
psPDab (4.0cm2, sq) [W/m2]		1.04
Power Drift [dB]	0.02	-0.06
M2/M1 [%]		60.0
Dist 3dB Peak [mm]		12.1



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Page: 108 of 139

ID: 031

Report No.: TESA2211000493E5

Measurement Report for U-NII-5 6.2GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 79\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6345.0, 79	5.6	6.039	35.744

**Hardware Setup** 

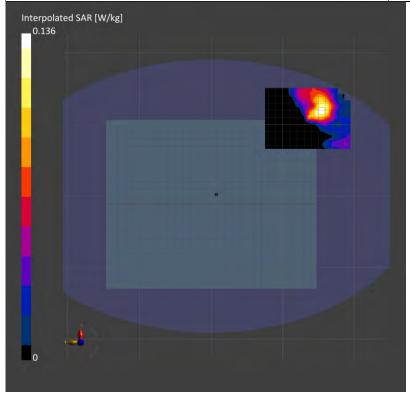
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

# **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.104	0.107
psSAR8g [W/kg]	0.046	0.049
psSAR10g [W/kg]	0.042	0.044
psPDab (4.0cm2, sq) [W/m2]		0.982
Power Drift [dB]	0.03	0.04
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		12.8



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Page: 109 of 139

ID: 032

Report No.: TESA2211000493E5

Measurement Report for U-NII-6 6.5GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 111\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Bottom Surface, 0.00	6505.0, 111	5.6	6.213	35.552

### Hardware Setup

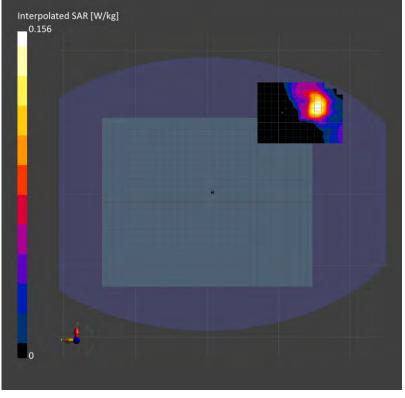
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

### **Scans Setup**

_	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.124	0.127
psSAR8g [W/kg]	0.054	0.057
psSAR10g [W/kg]	0.049	0.052
psPDab (4.0cm2, sq) [W/m2]		1.15
Power Drift [dB]	0.02	0.01
M2/M1 [%]		58.8
Dist 3dB Peak [mm]		10.8



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Page: 110 of 139

ID: 033

Report No.: TESA2211000493E5

Measurement Report for U-NII-7 6.7GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 175\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Sect	ion, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL		Bottom Surface, 0.00	6825.0, 175	5.6	6.563	35.168

### **Hardware Setup**

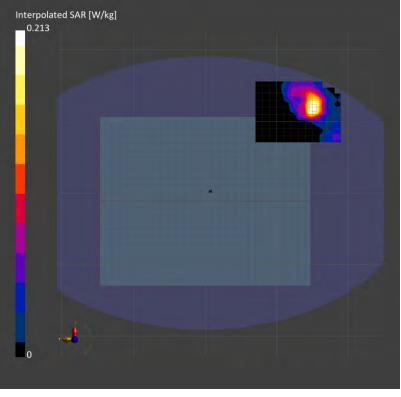
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

## **Scans Setup**

·	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.178	0.179
psSAR8g [W/kg]	0.076	0.078
psSAR10g [W/kg]	0.068	0.069
psPDab (4.0cm2, sq) [W/m2]		1.57
Power Drift [dB]	0.05	0.02
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		11.1



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Page: 111 of 139

ID: 034

Report No.: TESA2211000493E5

Measurement Report for U-NII-8 7.0GHz 802.11ax(160M)\_Body\_Bottom Surface\_CH 207\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6985.0, 207	5.7	6.74	34.976

### **Hardware Setup**

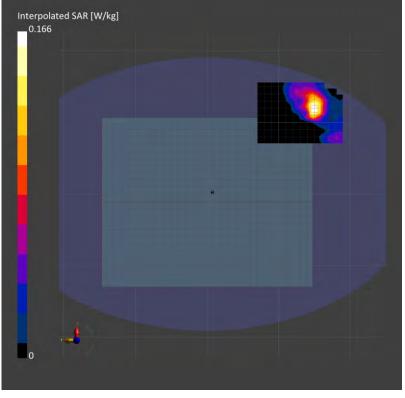
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

### **Scans Setup**

·	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.141	0.144
psSAR8g [W/kg]	0.059	0.062
psSAR10g [W/kg]	0.053	0.056
psPDab (4.0cm2, sq) [W/m2]		1.25
Power Drift [dB]	0.04	0.01
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		7.6



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Page: 112 of 139

ID: 035

Report No.: TESA2211000493E5

Measurement Report for U-NII-5 6.2GHz 802.11ax(160M)\_Body\_Right Edge\_CH 15\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Right Edge, 0.00	6025.0, 15	5.6	5.695	36.128

Hardware Setup

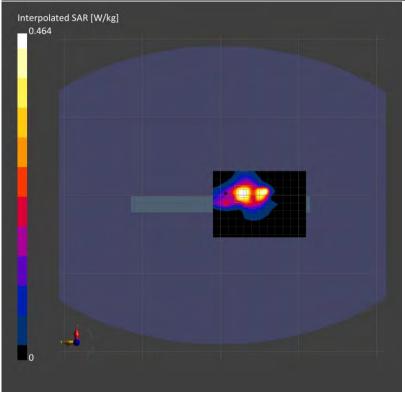
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan	
Grid Extents [mm]	85.0 x 119.0	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	

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.354	0.406
psSAR8g [W/kg]	0.143	0.160
psSAR10g [W/kg]	0.127	0.142
psPDab (4.0cm2, sq) [W/m2]		3.20
Power Drift [dB]	-0.04	-0.02
M2/M1 [%]		62.6
Dist 3dB Peak [mm]		8.2



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Page: 113 of 139

ID: 036

Report No.: TESA2211000493E5

Measurement Report for U-NII-5 6.2GHz 802.11ax(160M)\_Body\_Right Edge\_CH 79\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6345.0, 79	5.6	6.039	35.744

**Hardware Setup** 

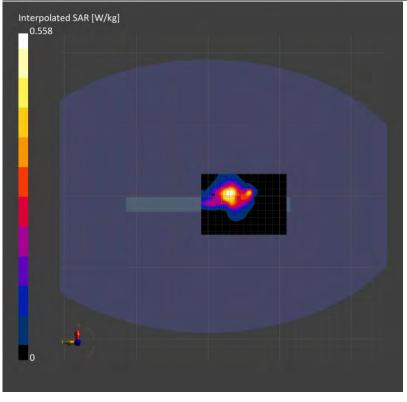
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.416	0.455
psSAR8g [W/kg]	0.171	0.187
psSAR10g [W/kg]	0.152	0.166
psPDab (4.0cm2, sq) [W/m2]		3.73
Power Drift [dB]	-0.03	0.01
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		9.2



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Page: 114 of 139

ID: 037

Report No.: TESA2211000493E5

Measurement Report for U-NII-6 6.5GHz 802.11ax(160M)\_Body\_Right Edge\_CH 111\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Right Edge, 0.00	6505.0, 111	5.6	6.213	35.552

**Hardware Setup** 

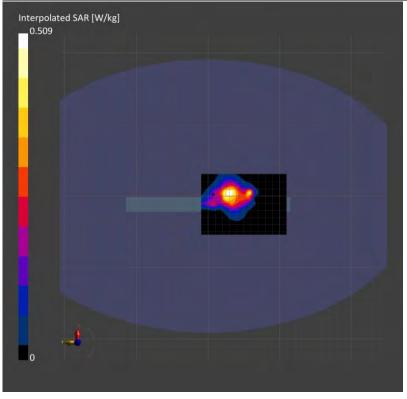
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.388	0.413
psSAR8g [W/kg]	0.160	0.174
psSAR10g [W/kg]	0.144	0.156
psPDab (4.0cm2, sq) [W/m2]		3.47
Power Drift [dB]	-0.01	0.03
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		10.0



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Page: 115 of 139

ID: 038

Report No.: TESA2211000493E5

Measurement Report for U-NII-7 6.7GHz 802.11ax(160M)\_Body\_Right Edge\_CH 143\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

F	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
F	lat, HSL	Right Edge, 0.00	6665.0, 143	5.6	6.388	35.36

Hardware Setup

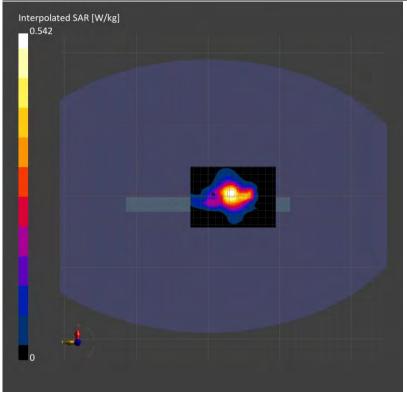
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.436	0.487
psSAR8g [W/kg]	0.186	0.206
psSAR10g [W/kg]	0.168	0.185
psPDab (4.0cm2, sq) [W/m2]		4.12
Power Drift [dB]	-0.04	0.02
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		9.1



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Page: 116 of 139

ID: 039

Report No.: TESA2211000493E5

Measurement Report for U-NII-8 7.0GHz 802.11ax(160M)\_Body\_Right Edge\_CH 207\_0mm\_Main

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phant	om Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, F	HSL	Right Edge, 0.00	6985.0, 207	5.7	6.74	34.976

### **Hardware Setup**

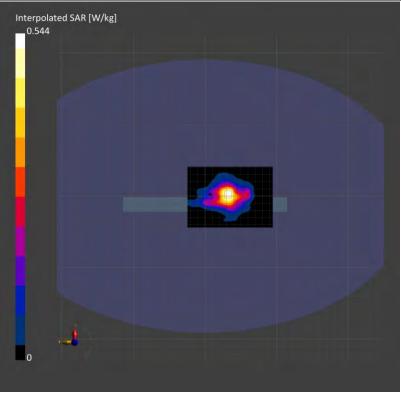
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

### **Scans Setup**

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.458	0.511
psSAR8g [W/kg]	0.193	0.204
psSAR10g [W/kg]	0.174	0.182
psPDab (4.0cm2, sq) [W/m2]		4.08
Power Drift [dB]	-0.01	0.04
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		8.2



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Page: 117 of 139

ID: 040

Report No.: TESA2211000493E5

Measurement Report for U-NII-5 6.2GHz 802.11ax(160M)\_Body\_Left Edge\_CH 15\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6025.0, 15	5.6	5.695	36.128

Hardware Setup

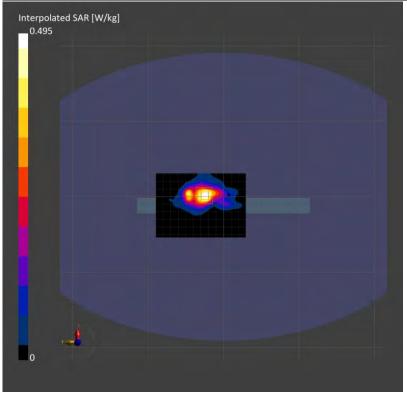
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712. 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.379	0.463
psSAR8g [W/kg]	0.153	0.173
psSAR10g [W/kg]	0.135	0.153
psPDab (4.0cm2, sq) [W/m2]		3.47
Power Drift [dB]	0.06	-0.03
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		7.3



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Page: 118 of 139

ID: 041

Report No.: TESA2211000493E5

Measurement Report for U-NII-5 6.2GHz 802.11ax(160M)\_Body\_Left Edge\_CH 79\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6345.0, 79	5.6	6.039	35.744

Hardware Setup

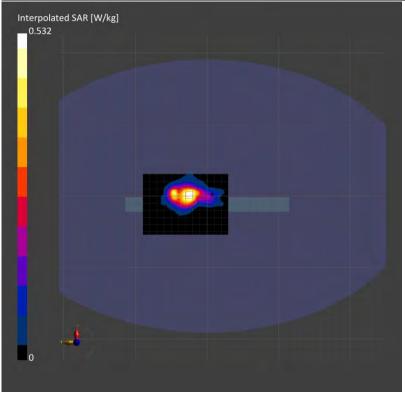
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.415	0.482
psSAR8g [W/kg]	0.172	0.193
psSAR10g [W/kg]	0.154	0.172
psPDab (4.0cm2, sq) [W/m2]		3.87
Power Drift [dB]	0.05	-0.03
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		8.0



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Page: 119 of 139

ID: 042

Report No.: TESA2211000493E5

Measurement Report for U-NII-6 6.5GHz 802.11ax(160M)\_Body\_Left Edge\_CH 111\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

I	Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
I	Flat, HSL	Left Edge, 0.00	6505.0, 111	5.6	6.213	35.552

**Hardware Setup** 

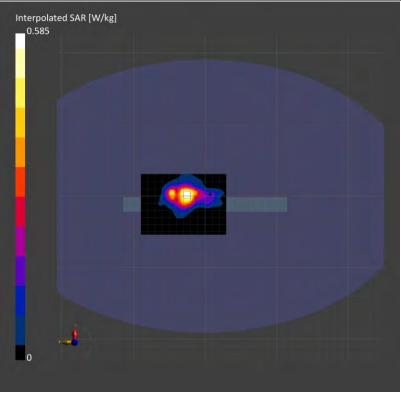
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.465	0.559
psSAR8g [W/kg]	0.192	0.219
psSAR10g [W/kg]	0.171	0.194
psPDab (4.0cm2, sq) [W/m2]		4.39
Power Drift [dB]	-0.04	-0.03
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		7.9



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Page: 120 of 139

ID: 043

Report No.: TESA2211000493E5

Measurement Report for U-NII-7 6.7GHz 802.11ax(160M)\_Body\_Left Edge\_CH 175\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6825.0, 175	5.6	6.563	35.163

**Hardware Setup** 

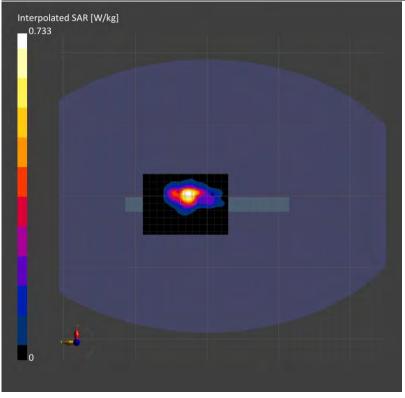
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.595	0.658
psSAR8g [W/kg]	0.237	0.250
psSAR10g [W/kg]	0.210	0.220
psPDab (4.0cm2, sq) [W/m2]		4.99
Power Drift [dB]	-0.03	-0.06
M2/M1 [%]		52.2
Dist 3dB Peak [mm]		6.7



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Page: 121 of 139

ID: 044

Report No.: TESA2211000493E5

Measurement Report for U-NII-8 7.0GHz 802.11ax(160M)\_Body\_Left Edge\_CH 207\_0mm\_Aux

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left Edge, 0.00	6985.0, 207	5.7	6.74	34.976

**Hardware Setup** 

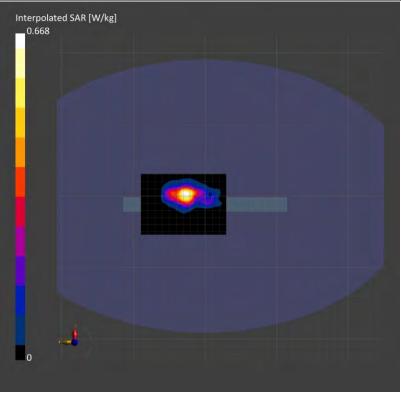
F	Phantom	Probe, Calibration Date	DAE, Calibration Date
E	ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

#### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	0.556	0.618
psSAR8g [W/kg]	0.219	0.231
psSAR10g [W/kg]	0.194	0.201
psPDab (4.0cm2, sq) [W/m2]		4.61
Power Drift [dB]	-0.03	-0.01
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		6.1



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Page: 122 of 139

# 13 PD MEASUREMENT RESULTS

ID: 045

Report No.: TESA2211000493E5

Measurement Report for Right Edge, U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Right Edge, 2.00	1.0

### **Hardware Setup**

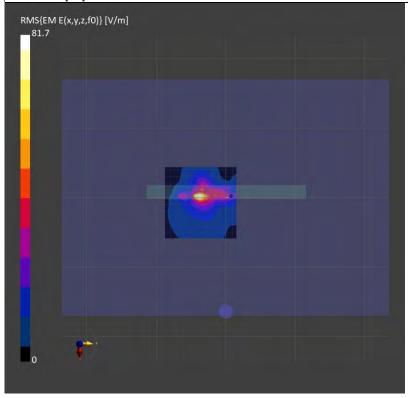
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

## **Scans 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

#### **Measurement Results**

Scan Type	5G Scan
Date	2022-11-30
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.97
psPDtot+ [W/m²]	5.23
psPDmod+ [W/m²]	6.40
E <sub>max</sub> [V/m]	81.7
Power Drift [dB]	-0.06



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Page: 123 of 139

ID: 046

Report No.: TESA2211000493E5

Measurement Report for Right Edge, U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Right Edge, 2.00	1.0

**Hardware Setup** 

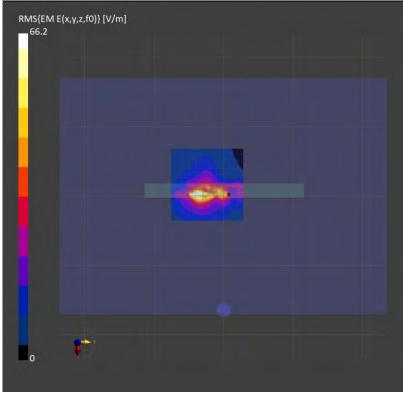
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-11-30
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.96
psPDtot+ [W/m²]	5.85
psPDmod+ [W/m²]	8.41
E <sub>max</sub> [V/m]	66.2
Power Drift [dB]	0.05



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Page: 124 of 139

ID: 047

Report No.: TESA2211000493E5

Measurement Report for Right Edge, U-NII-6,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Right Edge, 2.00	1.0

**Hardware Setup** 

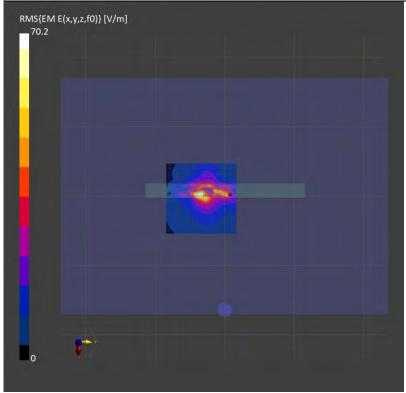
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-11-30
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.77
psPDtot+ [W/m²]	4.07
psPDmod+ [W/m²]	5.66
E <sub>max</sub> [V/m]	70.2
Power Drift [dB]	-0.03



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Page: 125 of 139

ID: 048

Report No.: TESA2211000493E5

Measurement Report for Right Edge, U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Right Edge, 2.00	1.0

**Hardware Setup** 

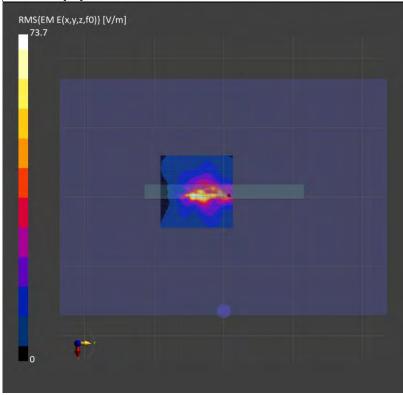
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-11-30
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.52
psPDtot+ [W/m²]	5.29
psPDmod+ [W/m²]	7.31
E <sub>max</sub> [V/m]	73.7
Power Drift [dB]	-0.05



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Page: 126 of 139

ID: 049

Report No.: TESA2211000493E5

Measurement Report for Left Edge, U-NII-8,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Right Edge, 2.00	1.0

**Hardware Setup** 

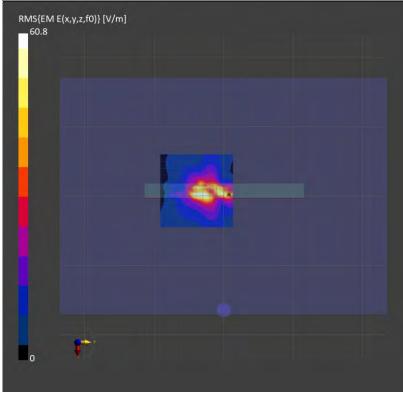
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-11-30
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.73
psPDtot+ [W/m²]	4.89
psPDmod+ [W/m²]	5.70
E <sub>max</sub> [V/m]	60.8
Power Drift [dB]	0.01



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Page: 127 of 139

ID: 050

Report No.: TESA2211000493E5

Measurement Report for Left Edge, U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Left Edge, 2.00	1.0

**Hardware Setup** 

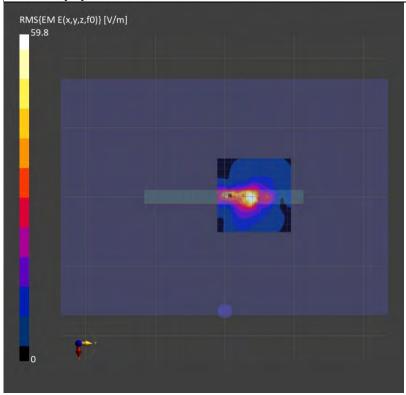
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-12-01
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.28
psPDtot+ [W/m²]	3.93
psPDmod+ [W/m²]	5.33
E <sub>max</sub> [V/m]	59.8
Power Drift [dB]	-0.04



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Page: 128 of 139

ID: 051

Report No.: TESA2211000493E5

Measurement Report for Left Edge, U-NII-5,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Left Edge, 2.00	1.0

**Hardware Setup** 

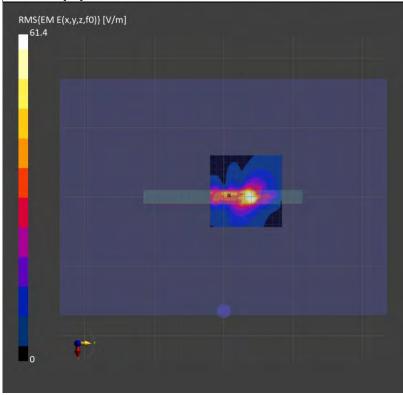
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-12-01
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.72
psPDtot+ [W/m²]	4.63
psPDmod+ [W/m²]	6.41
E <sub>max</sub> [V/m]	61.4
Power Drift [dB]	-0.06



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Page: 129 of 139

ID: 052

Report No.: TESA2211000493E5

Measurement Report for Left Edge, U-NII-6,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Left Edge, 2.00	1.0

**Hardware Setup** 

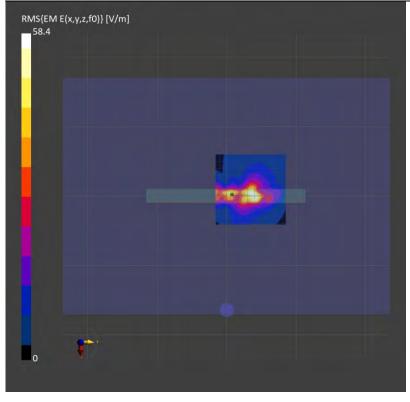
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-12-01
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.07
psPDtot+ [W/m²]	4.34
psPDmod+ [W/m²]	5.61
E <sub>max</sub> [V/m]	58.4
Power Drift [dB]	-0.01



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Page: 130 of 139

ID: 053

Report No.: TESA2211000493E5

Measurement Report for Left Edge, U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 175 (6825.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Left Edge, 2.00	1.0

**Hardware Setup** 

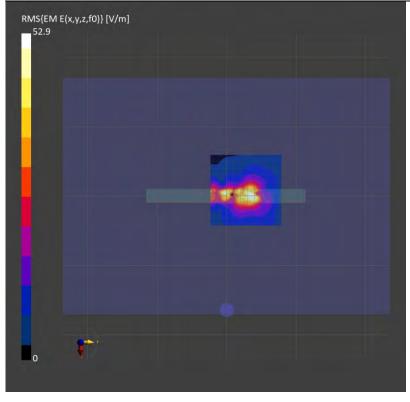
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-12-01
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	2.56
psPDtot+ [W/m²]	4.88
psPDmod+ [W/m²]	5.87
E <sub>max</sub> [V/m]	52.9
Power Drift [dB]	-0.05



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Page: 131 of 139

ID: 054

Report No.: TESA2211000493E5

Measurement Report for Left Edge, U-NII-8,

IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	Left Edge, 2.00	1.0

**Hardware Setup** 

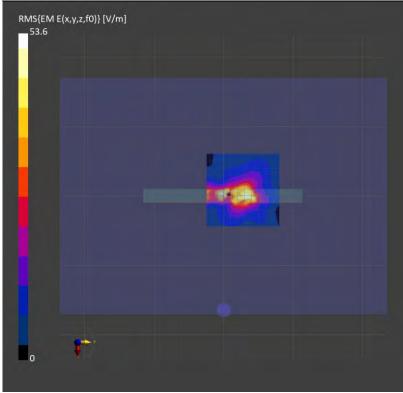
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

### **Scans 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

### **Measurement Results**

Scan Type	5G Scan
Date	2022-12-01
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	2.77
psPDtot+ [W/m²]	4.53
psPDmod+ [W/m²]	5.33
E <sub>max</sub> [V/m]	53.6
Power Drift [dB]	0.06



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Page: 132 of 139

## 14 SAR SYSTEM CHECK RESULTS

Report No.: TESA2211000493E5

Measurement Report for Device, FRONT, D2450,

CW, Channel 2450 (2450.0 MHz), SN:727

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	8.16	1.888	40.287

**Hardware Setup** 

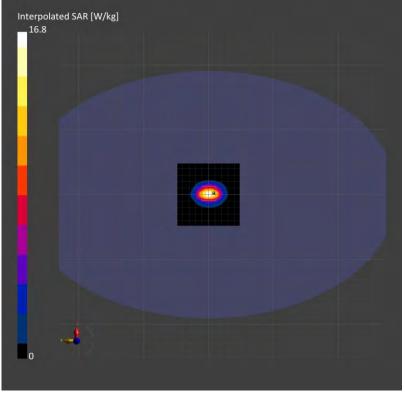
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-2	2022-12-2
psSAR1g [W/kg]	12.7	12.8
psSAR8g [W/kg]	6.47	6.59
psSAR10g [W/kg]	5.84	5.97
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		9.0



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Page: 133 of 139

Report No.: TESA2211000493E5

Measurement Report for Device, FRONT, D5250,

CW, Channel 5250 (5250.0 MHz), SN:1023

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.94	4.874	37.016

**Hardware Setup** 

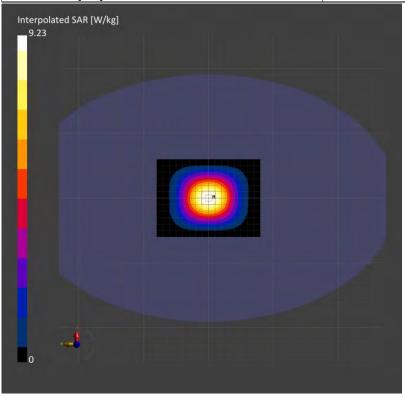
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-3	2022-12-3
psSAR1g [W/kg]	6.03	8.12
psSAR8g [W/kg]	3.06	2.73
psSAR10g [W/kg]	2.82	2.34
Power Drift [dB]	-0.04	-0.03
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		7.2



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Page: 134 of 139

Report No.: TESA2211000493E5

Measurement Report for Device, FRONT, D5600,

CW, Channel 5600 (5600.0 MHz), SN:1023

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.29	5.245	36.616

**Hardware Setup** 

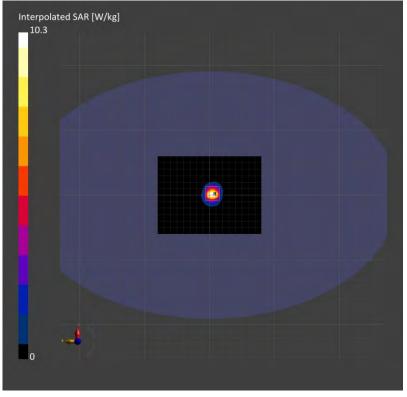
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	7.33	8.04
psSAR8g [W/kg]	2.60	2.68
psSAR10g [W/kg]	2.25	2.30
Power Drift [dB]	-0.04	0.03
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		7.4



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Page: 135 of 139

Report No.: TESA2211000493E5

Measurement Report for Device, FRONT, D5750,

CW, Channel 5750 (5750.0 MHz) SN:1023

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

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.45	5.403	36.444

**Hardware Setup** 

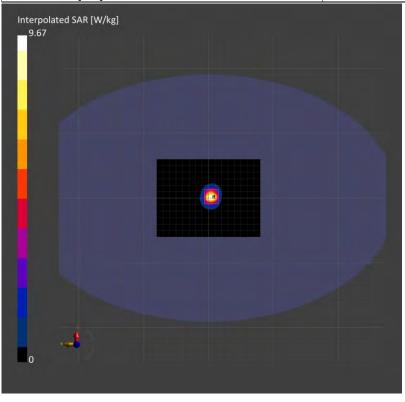
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-4	2022-12-4
psSAR1g [W/kg]	6.94	8.10
psSAR8g [W/kg]	2.49	2.70
psSAR10g [W/kg]	2.16	2.32
Power Drift [dB]	0.06	-0.03
M2/M1 [%]		50.4
Dist 3dB Peak [mm]		7.7



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Page: 136 of 139

Report No.: TESA2211000493E5

Measurement Report for Device, FRONT, D6500,

CW, Channel 6500 (6500.0 MHz), SN:1006

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.6	6.207	35.558

**Hardware Setup** 

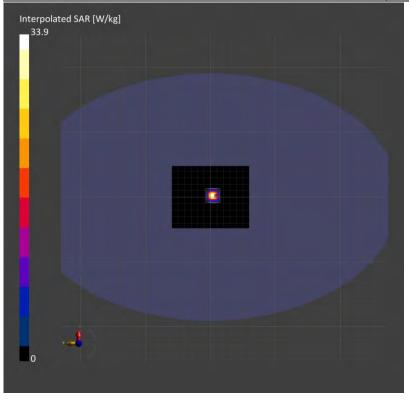
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 119.0	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

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	22.2	27.8
psSAR8g [W/kg]	5.79	6.34
psSAR10g [W/kg]	4.80	5.21
psPDab (4.0cm2, sq) [W/m2]		127
Power Drift [dB]	0.01	-0.05
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		6.9



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Page: 137 of 139

Report No.: TESA2211000493E5

Measurement Report for Device, FRONT, D7000,

CW, Channel 7000 (7000.0 MHz), SN:1007

Ambient temperature: 22.2°C; Liquid temperature: 21.4°C

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	5.7	6.757	34.958

**Hardware Setup** 

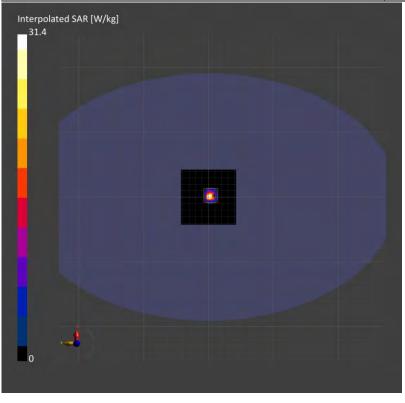
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 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

### **Measurement Results**

	Area Scan	Zoom Scan
Date	2022-12-5	2022-12-5
psSAR1g [W/kg]	20.6	26.9
psSAR8g [W/kg]	5.41	5.96
psSAR10g [W/kg]	4.49	4.89
psPDab (4.0cm2, sq) [W/m2]		119
Power Drift [dB]	0.01	0.04
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		8.6



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Page: 138 of 139

# 15 PD SYSTEM CHECK RESULTS

Report No.: TESA2211000493E5

Measurement Report for Device, FRONT, Validation band,

CW, Channel 10000 (10000.0 MHz), SN:1021

**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor
5G, Air	FRONT, 10.00	1.0

**Hardware Setup** 

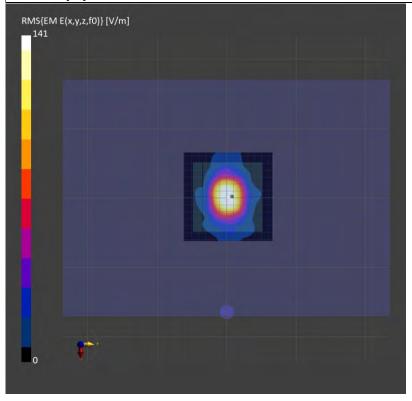
Phantom	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1096	EUmmWV4 - SN9616_F1-55GHz, 2022-03-20	DAE4 Sn1751, 2022-10-10

**Scans Setup** 

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	10.0

#### **Measurement Results**

mode di oni oni i toodito	
Scan Type	5G Scan
Date	2022-11-30
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	47.3
psPDtot+ [W/m²]	47.6
psPDmod+ [W/m²]	47.9
E <sub>max</sub> [V/m]	141
Power Drift [dB]	0.01



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Page: 139 of 139

# Refer to separated files for the following appendixes.

- 16.1 SAR\_Appendix A Photographs
- 16.2 SAR Appendix B DAE & Probe Cal. Certificate
- SAR Appendix C Phantom Description & Dipole Cal. Certificate 16.3

- End of report -

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