

FCC SAR Test Report

Report No. : SAR260710B001

Applicant : Juniper Systems, Inc.

Address : 1132 W 1700 N Logan, UT 84321 USA

Manufacturer : Juniper Systems, Inc.

Address : 1132 W 1700 N Logan, UT 84321 USA

Product : ALTA

FCC ID : VSFALT1

Brand : Juniper Systems

Model No. : ALT1/FC-8000/SHC8000

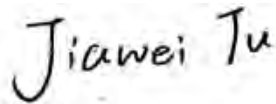
Standards : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2013
KDB 865664 D01 v01r04 / KDB 865664 D02 v01r02 / KDB 248227 D01 v02r02
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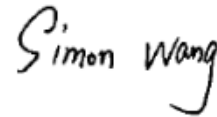
CERTIFICATION: The above equipment have been tested by **Boomwave Test (Shenzhen) Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by A2LA or any government agencies.

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Simon Wang / Manager

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Release Control Record

Report No.	Reason for Change	Date Issued
SAR260710B001	Initial release	Jul 17, 2026

1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Body SAR _{1g} (0 cm Gap) (W/kg)	Highest Reported Extremity SAR _{10g} (0 cm Gap) (W/kg)	Highest Simultaneous Transmission SAR _{1g} (W/kg)	Highest Simultaneous Transmission SAR _{10g} (W/kg)
PCB	LTE 7	1.30		1.59	
	LTE 12	1.07			
	LTE 13	1.27			
	LTE 14	1.06			
	LTE 19	1.27			
	LTE 25/2	1.28			
	LTE 26/5	1.30			
	LTE 30	0.89			
	LTE 38	1.18			
	LTE 41	1.29			
	LTE 42	1.30			
	LTE 48	1.24			
	LTE 66/4	1.29			
	LTE 71	0.89			
	LTE 106	1.26			
	NR n5	1.27			
	NR n7	1.29			
	NR n25/2	1.20			
	NR n30	1.28			
	NR n41/38	1.27			
	NR n48	1.10			
	NR n66	1.31			
	NR n71	0.86			
	NR n77	1.29			
	NR n78	1.17			
DTS	WLAN 2.4G	0.24		1.59	
NII	WLAN 5.2G	1.18		1.59	
	WLAN 5.3G	1.10			
	WLAN 5.6G	1.14			
	WLAN 5.8G	0.96			
DSS	BT	1.13		1.59	
DXX	NFC		0.02		0.98

Note:

- The SAR limit (Body: SAR_{1g} 1.6 W/kg, Extremity: SAR_{10g} 4.0 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

2. Description of Equipment Under Test

EUT Type	ALTA
FCC ID	VSFALT1
IMEI Code	359983610101234 / 359983610103735
Brand Name	Juniper Systems
Model Name	ALT1/FC-8000/SHC8000
HW Version	DVT2
SW Version	JP_W.00.00.0128.T1_USERDEBUG
Tx Frequency Bands (Unit: MHz)	LTE Band 2 : 1850 ~ 1910 LTE Band 4 : 1710 ~ 1755 LTE Band 5 : 824 ~ 849 LTE Band 7 : 2500 ~ 2570 LTE Band 12 : 699 ~ 716 LTE Band 13 : 777 ~ 787 LTE Band 14 : 788 ~ 798 LTE Band 19 : 830 ~ 845 LTE Band 25 : 1850 ~ 1915 LTE Band 26 : 814 ~ 849 LTE Band 30 : 2305 ~ 2315 LTE Band 38 : 2570 ~ 2620 LTE Band 41 : 2496 ~ 2690 LTE Band 42 : 3450 ~ 3550, 3550 ~ 3600 LTE Band 48 : 3550 ~ 3700 LTE Band 66 : 1710 ~ 1780 LTE Band 71 : 663 ~ 698 LTE Band 106 : 896 ~ 901 NR Band n2 : 1850 ~ 1910 NR Band n5 : 824 ~ 849 NR Band n7 : 2500 ~ 2570 NR Band n25 : 1850 ~ 1915 NR Band n30 : 2305 ~ 2315 NR Band n38 : 2570 ~ 2620 NR Band n41 : 2496 ~ 2690 NR Band n48 : 3550 ~ 3700 NR Band n66 : 1710 ~ 1780 NR Band n71 : 663 ~ 698 NR Band n77 : 3450 ~ 3550, 3700 ~ 3980 NR Band n78 : 3450 ~ 3550 WLAN 2.4GHz: 2412 ~ 2462 WLAN 5GHz: 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 WLAN 6E: 5925 ~ 6425, 6425 ~ 6525, 6525 ~ 6875, 6875 ~ 7125 Bluetooth : 2402 ~ 2480 NFC : 13.56
Uplink Modulations	LTE : QPSK, 16QAM, 64QAM, 256QAM NR : CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) DFT-s-OFDM ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11b : DSSS 802.11a/g/n/ac : OFDM 802.11ax/be : OFDMA Bluetooth : BR/EDR/LE NFC : ASK
Subcarrier Spacing	15 kHz (FDD) / 30 kHz (TDD)
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.5.1 of this report.
Antenna Type	WWAN: Fixed Internal Antenna WLAN/BT: PIFA Antenna NFC: Loop Antenna
EUT Stage	Production Unit

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.
2. This device supports LTE B2 / B4 / B5 and B25 / B66 / B26. Since the supported frequency span for LTE B2 / B4 / B5 falls completely within the support's frequency span for LTE B25 / B66 / B26, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26.
3. This device supports 5GNR n2 / n38 and n25 / n41. Since the supported frequency span for 5GNR n2 / n38 falls completely within the support's frequency span for n25 / n41, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n25 / n41.
4. For WWAN Antennas, when the SAR sensor is detected close to the body state, power reduction will be activated to limit the maximum power. Proximity sensor triggering distances please refer to section 4.1 of this report.
5. The difference between battery 1/2 is only the capacity size, so battery 2 verifies the worst case of battery 1. The differences between battery 1/2 as below:

Accessories	Manufacturer	Model	Specification
Battery 1	Fullymax Battery Co., Ltd.	FBC6570106	3.7Vdc, 5700mAh
Battery 2	Fullymax Battery Co., Ltd.	FBC8570106	3.7Vdc, 15000mAh

WWAN Test Scenarios:

Power State	Exposure Condition	SAR Sensor Status	WLAN Status
DSI 0	Standalone & Body	Off	Inactivity
DSI 1	Standalone & Body	On	Inactivity
DSI 2	Combined & Body	On	Activity

WLAN Test Scenarios:

Power State	Exposure Condition	SAR Sensor Status	WWAN Status
DSI 0	Standalone & Body	Off	Inactivity
DSI 1	Standalone & Body	On	Inactivity
DSI 2	Combined & Body	On	Activity

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

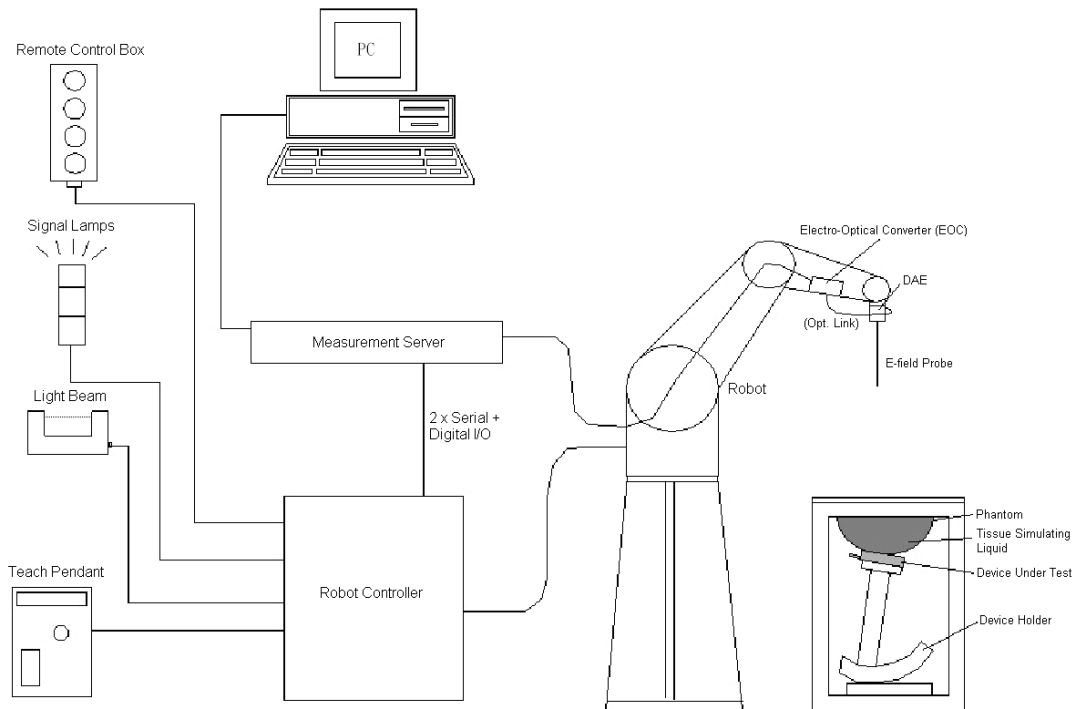


Fig-3.1 DASY System Setup

3.2.1 Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY8: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



Fig-3.2 DASY8

3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

Model	EX3DV4	
Construction	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

Model	ES3DV3	
Construction	Symmetrical design with triangular core. Interleaved sensors. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
Frequency	10 MHz to 4 GHz Linearity: ± 0.2 dB	
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	5 μ W/g to 100 mW/g Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm	

3.2.3 Data Acquisition Electronics (DAE)

Model	DAE3, DAE4	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	< 5 μ V (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

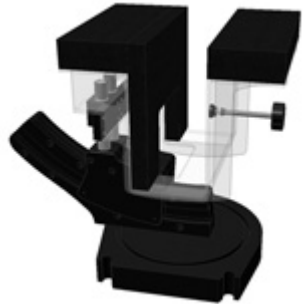
3.2.4 Phantoms

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	

Model	ELI	
Construction	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	

3.2.5 Device Holder

Model	Mounting Device	
Construction	In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).	
Material	POM	

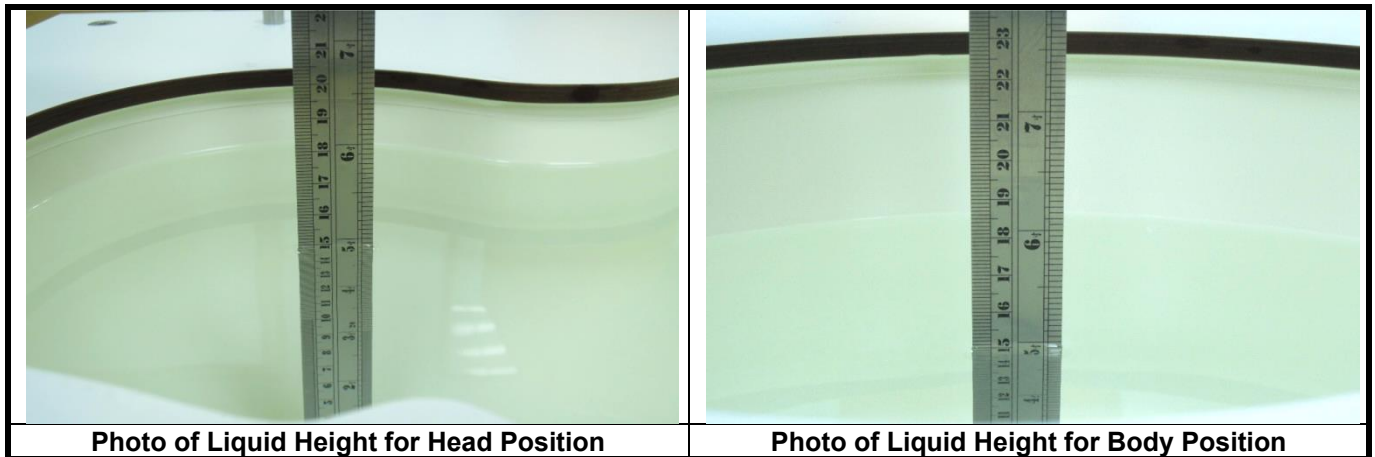
Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner.	
Material	POM, Acrylic glass, Foam	

3.2.6 System Validation Dipoles

Model	D-Serial	
Construction	Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.	
Frequency	750 MHz to 5800 MHz	
Return Loss	> 20 dB	
Power Capability	> 100 W (f < 1GHz), > 40 W (f > 1GHz)	

3.2.7 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.



The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528, and KDB 865664 D01 Appendix A. For the body tissue simulating liquids, the dielectric properties are defined in KDB 865664 D01 Appendix A. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using a dielectric assessment kit and a network analyzer.

Table-3.1 Targets of Tissue Simulating Liquid

Frequency (MHz)	Target Permittivity	Range of $\pm 5\%$	Target Conductivity	Range of $\pm 5\%$
For Head				
750	41.9	39.8 ~ 44.0	0.89	0.85 ~ 0.93
835	41.5	39.4 ~ 43.6	0.90	0.86 ~ 0.95
900	41.5	39.4 ~ 43.6	0.97	0.92 ~ 1.02
1450	40.5	38.5 ~ 42.5	1.20	1.14 ~ 1.26
1640	40.3	38.3 ~ 42.3	1.29	1.23 ~ 1.35
1750	40.1	38.1 ~ 42.1	1.37	1.30 ~ 1.44
1800	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
1900	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2000	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2300	39.5	37.5 ~ 41.5	1.67	1.59 ~ 1.75
2450	39.2	37.2 ~ 41.2	1.80	1.71 ~ 1.89
2600	39.0	37.1 ~ 41.0	1.96	1.86 ~ 2.06
3500	37.9	36.0 ~ 39.8	2.91	2.76 ~ 3.06
5200	36.0	34.2 ~ 37.8	4.66	4.43 ~ 4.89
5300	35.9	34.1 ~ 37.7	4.76	4.52 ~ 5.00
5500	35.6	33.8 ~ 37.4	4.96	4.71 ~ 5.21
5600	35.5	33.7 ~ 37.3	5.07	4.82 ~ 5.32
5800	35.3	33.5 ~ 37.1	5.27	5.01 ~ 5.53

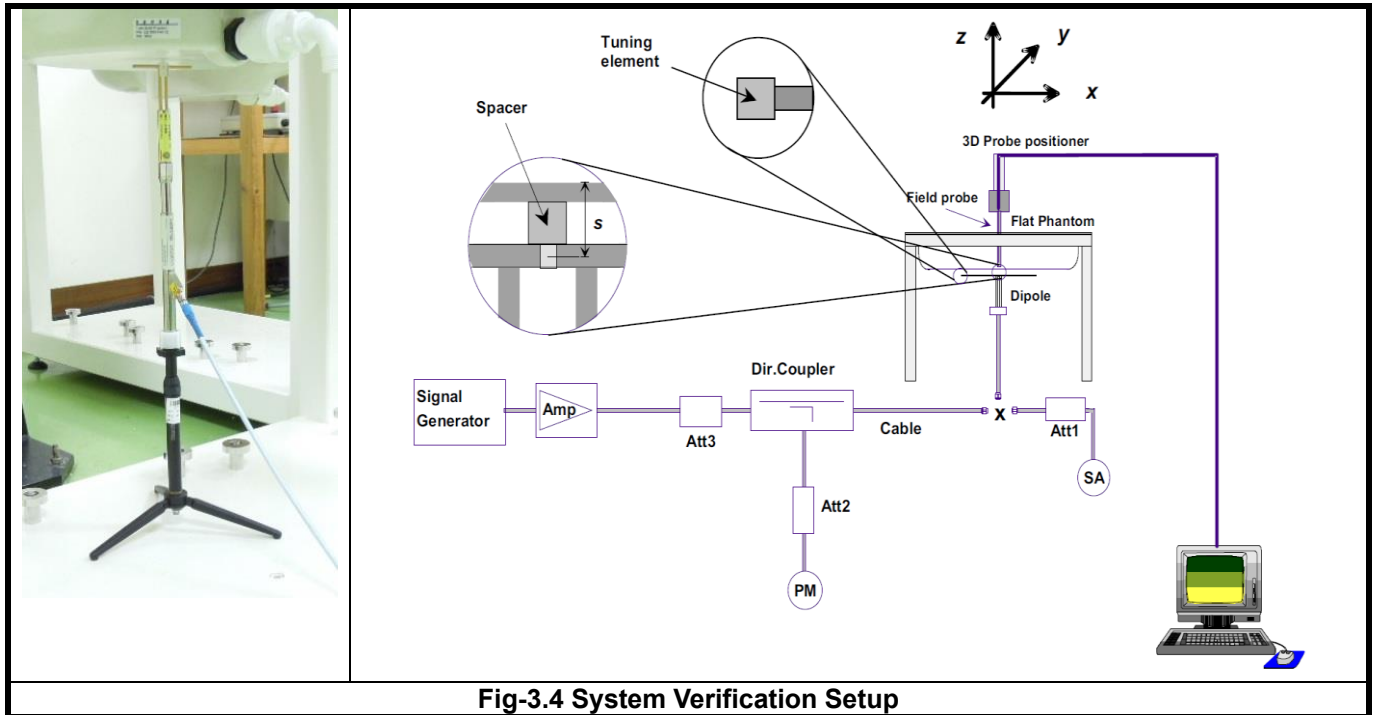
The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
H750	0.2	-	0.2	1.5	56.0	-	42.1	-
H835	0.2	-	0.2	1.5	57.0	-	41.1	-
H900	0.2	-	0.2	1.4	58.0	-	40.2	-
H1450	-	43.3	-	0.6	-	-	56.1	-
H1640	-	45.8	-	0.5	-	-	53.7	-
H1750	-	47.0	-	0.4	-	-	52.6	-
H1800	-	44.5	-	0.3	-	-	55.2	-
H1900	-	44.5	-	0.2	-	-	55.3	-
H2000	-	44.5	-	0.1	-	-	55.4	-
H2300	-	44.9	-	0.1	-	-	55.0	-
H2450	-	45.0	-	0.1	-	-	54.9	-
H2600	-	45.1	-	0.1	-	-	54.8	-
H3500	-	28.0	-	0.2	-	20.0	71.8	-
H5G	-	-	-	-	-	17.2	65.5	17.3

3.3 SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.



The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The spectrum analyzer measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (1000 mW is used for 13 MHz, 100 mW is used for 700 MHz to 6 GHz) at the dipole connector and the power meter is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

3.4 SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement
- Area scan
- Zoom scan
- Power drift measurement

The SAR measurement procedures for each of test conditions are as follows:

- Make EUT to transmit maximum output power
- Measure conducted output power through RF cable
- Place the EUT in the specific position of phantom
- Perform SAR testing steps on the DASY system
- Record the SAR value

3.4.1 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

Items	<= 2 GHz	2-3 GHz	3-4 GHz	4-5 GHz	5-6 GHz
Area Scan ($\Delta x, \Delta y$)	<= 15 mm	<= 12 mm	<= 12 mm	<= 10 mm	<= 10 mm
Zoom Scan ($\Delta x, \Delta y$)	<= 8 mm	<= 5 mm	<= 5 mm	<= 4 mm	<= 4 mm
Zoom Scan (Δz)	<= 5 mm	<= 5 mm	<= 4 mm	<= 3 mm	<= 2 mm
Zoom Scan Volume	>= 30 mm	>= 30 mm	>= 28 mm	>= 25 mm	>= 22 mm

Note:

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of $\Delta x / \Delta y$ (2-3GHz: <= 8 mm, 3-4GHz: <= 7 mm, 4-6GHz: <= 5 mm) may be applied.

3.4.2 Volume Scan Procedure

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

3.4.3 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

3.4.4 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

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

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

3.4.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

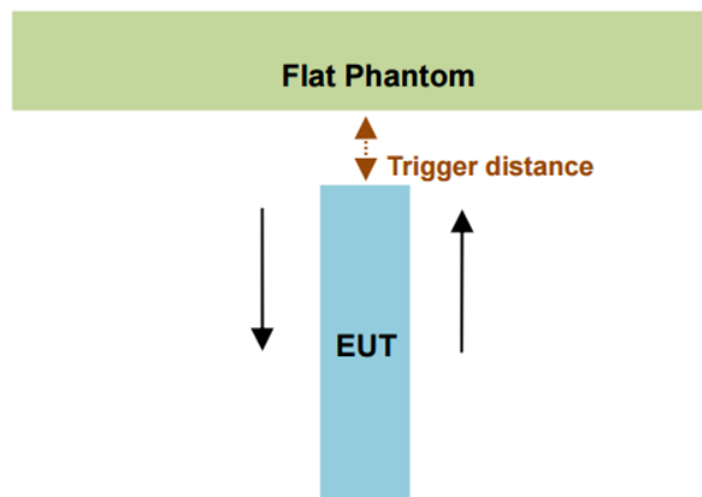
<Connections between EUT and System Simulator>

For WWAN SAR testing, the EUT was linked and controlled by base station emulator (CMW500 and CMX500 is used for GSM/WCDMA/LTE/NR). Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing. For NR SAR testing, due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection.

<Proximity Sensor Triggering Distances>

The proximity sensor triggering distance was determined per KDB 616217 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.

In the preliminary triggering distance testing, the tissue-equivalent medium for different frequency bands were used for verification; no other frequency bands tissue-equivalent medium was found to result in shortest triggering than that for 5800MHz, and the tissue-equivalent medium for 5800MHz was used for formal proximity sensor triggering testing.



Summary for trigger distance per position was tabulated in the below table.

Front Face

Front Face (moving toward / away phantom)											
Antenna / Distance (mm)	0~15	16	17	18	19	20	21	22	23	24	25~50
Antenna 0/1/2	on	on	on	on	on	on	off	off	off	off	off

Rear Face

Rear Face (moving toward / away phantom)											
Antenna / Distance (mm)	0~25	26	27	28	29	30	31	32	33	34	35~50
Antenna 0/1/2/6/7	on	on	on	on	on	on	off	off	off	off	off

Left Side

Left Side (moving toward / away phantom)											
Antenna / Distance (mm)	0~15	16	17	18	19	20	21	22	23	24	25~50
Antenna 1	on	on	on	on	on	on	off	off	off	off	off

Right Side

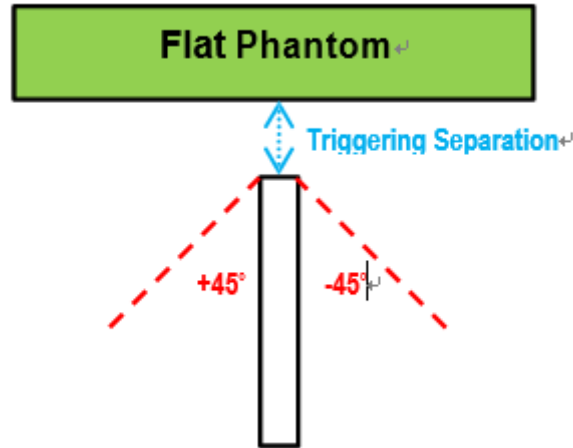
Right Side (moving toward / away phantom)											
Antenna / Distance (mm)	0~15	16	17	18	19	20	21	22	23	24	25~50
Antenna 2/7	on	on	on	on	on	on	off	off	off	off	off

Top Side

Top Side (moving toward / away phantom)											
Antenna / Distance (mm)	0~25	26	27	28	29	30	31	32	33	34	35~50
Antenna 0/1/6	on	on	on	on	on	on	off	off	off	off	off

Proximity Sensor Tilt Angle Influences

Summary for proximity sensor tilt angle influence is shown in below.



Antenna	Orientation	Separation Distance (mm)	Tilt Angle										
			-45°	-40°	-30°	-20°	-10°	0°	10°	20°	30°	40°	45°
Ant 1	Left Side	20	on	on	on	on	on	on	on	on	on	on	on
Ant 2/7	Right Side	20	on	on	on	on	on	on	on	on	on	on	on
Ant 0/1/6	Top Side	30	on	on	on	on	on	on	on	on	on	on	on

Summary for Proximity Sensor Triggering Distance

The detailed trigger distance is as follows:

Antenna / Test position	Front Face	Rear Face	Left Side	Right Side	Top Side	Bottom Side
Ant 0	20mm	30mm	-	-	30mm	-
Ant 1	20mm	30mm	20mm	-	30mm	-
Ant 2	20mm	30mm	-	20mm	-	-
Ant 6	-	30mm	-	-	30mm	-
Ant 7	-	30mm	-	20mm	-	-

Note:

1. The power reduction depends on the proximity sensor input. For a steady SAR test, the power reduction was enabled or disabled manually by engineering software during SAR testing.
2. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.

<Considerations Related to LTE for Setup and Testing>

This device contains LTE transmitter which follows 3GPP standards, supports QPSK, 16QAM, 64QAM and 256QAM modulations, and supported LTE band and channel bandwidth is listed in below. The output power was tested per 3GPP TS 36.521-1 maximum transmit procedures for QPSK, 16QAM, 64QAM and 256QAM modulation. The results please refer to section 4.5 of this report.

EUT Supported LTE Band and Channel Bandwidth						
LTE Band	BW 1.4 MHz	BW 3 MHz	BW 5 MHz	BW 10 MHz	BW 15 MHz	BW 20 MHz
2	V	V	V	V	V	V
4	V	V	V	V	V	V
5	V	V	V	V		
7			V	V	V	V
12	V	V	V	V		
13			V	V		
14			V	V		
19			V	V	V	
25	V	V	V	V	V	V
26	V	V	V	V	V	
30			V	V		
38			V	V	V	V
41			V	V	V	V
42			V	V	V	V
48			V	V	V	V
66	V	V	V	V	V	V
71			V	V	V	V
106	V	V				

The LTE maximum power reduction (MPR) in accordance with 3GPP TS 36.101 is active all times during LTE operation. The allowed MPR for the maximum output power is specified in below.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

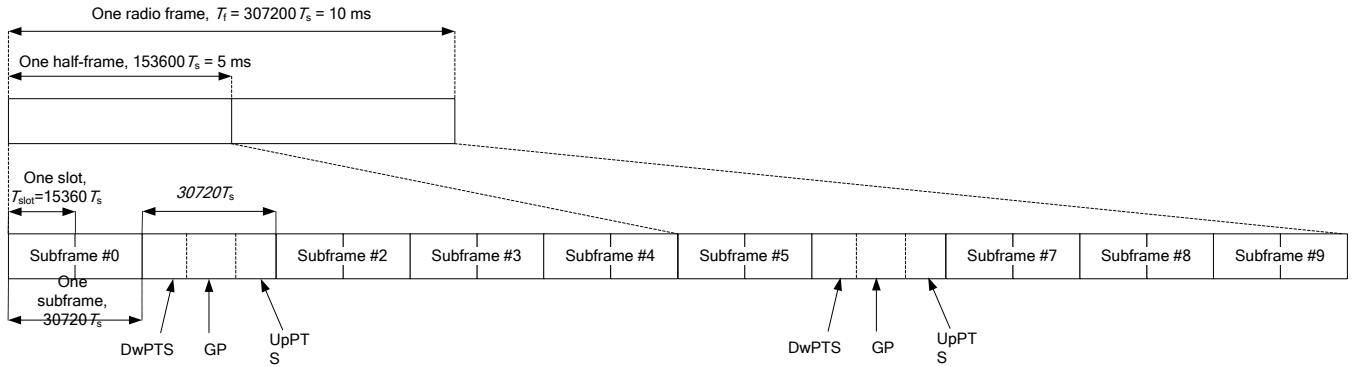
Note: MPR is according to the standard and implemented in the circuit (mandatory).

In addition, the device is compliant with additional maximum power reduction (A-MPR) requirements defined in 3GPP TS 36.101 section 6.2.4 that was disabled for all FCC compliance testing.

During LTE SAR testing, the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB was set in base station simulator. When the EUT has registered and communicated to base station simulator, the simulator set to make EUT transmitting the maximum radiated power.

TDD-LTE Setup Configurations

According to KDB 941225 D05, SAR testing for TDD-LTE device must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD-LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be referred to below.



3GPP TS 36.211 Figure 4.2-1: Frame Structure Type 2

Special Subframe Configuration	Normal Cyclic Prefix in Downlink			Extended Cyclic Prefix in Downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink
0	6592 • T _s	2192 • T _s	2560 • T _s	7680 • T _s	2192 • T _s	2560 • T _s
1	19760 • T _s			20480 • T _s		
2	21952 • T _s			23040 • T _s		
3	24144 • T _s			25600 • T _s		
4	26336 • T _s	4384 • T _s	5120 • T _s	7680 • T _s	4384 • T _s	5120 • T _s
5	6592 • T _s			20480 • T _s		
6	19760 • T _s			23040 • T _s		
7	21952 • T _s			12800 • T _s		
8	24144 • T _s			-	-	-
9	13168 • T _s			-	-	-

3GPP TS 36.211 Table 4.2-1: Configuration of Special Subframe

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-Point Periodicity	Subframe Number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

3GPP TS 36.211 Table 4.2-2: Uplink-Downlink Configurations

The variety of different TD-LTE uplink-downlink configurations allows a network operator to allocate the network's capacity between uplink and downlink traffic to meet the needs of the network. The uplink duty cycle of these seven configurations can readily be computed and shown in below.

UL-DL Configuration	0	1	2	3	4	5	6
Highest Duty-Cycle	63.33%	43.33%	23.33%	31.67%	21.67%	11.67%	53.33%

Considering the highest transmission duty cycle, TDD-LTE was tested using Uplink-Downlink Configuration 0 and 1 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 7 using extended cyclic prefix uplink. Therefore, PC2/3 SAR testing for TDD-LTE was performed at the maximum output power with highest transmission duty cycle of 43.33% and 63.33%.

LTE Band Tune-up:

Band	Antenna	DSI0	DSI-1	DSI-2
		Ful Power	Snsor on (Single)	Snsor on (Combine)
		Tune-up Limit	Tune-up Limit	Tune-up Limit
LTE 2	Ant0	25.5	15.5	12.0
LTE 2	Ant2	25.5	24.0	21.0
LTE 4	Ant0	25.5	16.5	12.0
LTE 4	Ant2	25.5	25.5	22.5
LTE 5	Ant0	25.5	24.5	20.0
LTE 7	Ant0	25.5	18.5	14.0
LTE 7	Ant2	25.5	18.5	14.0
LTE 12	Ant0	25.5	25.5	22.0
LTE 13	Ant0	25.5	24.0	19.5
LTE 14	Ant0	25.5	24.0	19.5
LTE 19	Ant0	25.5	24.5	20.5
LTE 25	Ant0	25.5	15.5	12.0
LTE 25	Ant2	25.5	24.0	21.0
LTE 26	Ant0	25.5	24.5	20.0
LTE 30	Ant0	25.5	17.5	13.5
LTE 30	Ant2	25.5	18.0	14.0
LTE 38	Ant0	25.5	19.0	15.5
LTE 41 PC3	Ant0	24.5	20.5	16.0
LTE 41 PC2	Ant0	26.0	20.5	16.0
LTE 41 PC3	Ant2	25.5	22.0	21.0
LTE 41 PC2	Ant2	27.0	22.0	21.0
LTE 42	Ant1	24.5	19.5	15.5
LTE 48	Ant1	24.5	21.0	17.0
LTE 66	Ant0	25.5	16.5	12.0
LTE 66	Ant2	25.5	25.5	22.5
LTE 71	Ant0	25.5	25.5	23.0
LTE 106	Ant0	25.5	24.5	20.0

LTE Uplink Carrier Aggregation (CA) Setup Configurations

LTE Uplink CA	2CC Uplink Carrier Aggregation
Inter Band	Tx Antenna
CA_2A-4A	ANT0 & ANT2
CA_2A-5A	ANT2 & ANT0
CA_2A-7A	ANT2 & ANT0
CA_2A-12A	ANT2 & ANT0
CA_2A-13A	ANT2 & ANT0
CA_2A-14A	ANT2 & ANT0
CA_2A-30A	ANT2 & ANT0
CA_2A-66A	ANT0 & ANT2
CA_2A-71A	ANT2 & ANT0
CA_4A-7A	ANT2 & ANT0
CA_4A-12A	ANT2 & ANT0
CA_4A-13A	ANT2 & ANT0
CA_4A-30A	ANT2 & ANT0
CA_4A-71A	ANT2 & ANT0
CA_5A-7A	ANT0 & ANT2
CA_5A-25A	ANT0 & ANT2
CA_5A-30A	ANT0 & ANT2
CA_5A-66A	ANT0 & ANT2
CA_7A-12A	ANT2 & ANT0
CA_7A-66A	ANT0 & ANT2
CA_12A-25A	ANT0 & ANT2
CA_12A-30A	ANT0 & ANT2
CA_12A-66C	ANT0 & ANT2
CA_13A-66A	ANT0 & ANT2
CA_14A-30A	ANT0 & ANT2
CA_14A-66A	ANT0 & ANT2
CA_19A-42A	ANT0 & ANT1
CA_30A-66A	ANT0 & ANT2
CA_66A-71A	ANT2 & ANT0

Note:

For Inter-band CA Simultaneous SAR analysis is performed using standalone SAR summed together and they are more conservatively for inter-band CA.

<Considerations Related to 5G NR for Setup and Testing>

1. The 5G NR supports both SA and NSA modes. The details are as follows

Mode	Band	Duplex	SCS(KHz)	BW(M)
SA	5G NR n2	FDD	15	5, 10, 15, 20
	5G NR n5	FDD	15	5, 10, 15, 20
	5G NR n7	FDD	15	5, 10, 15, 20
	5G NR n25	FDD	15	5, 10, 15, 20
	5G NR n30	FDD	15	10
	5G NR n38	TDD	30	20, 30, 40
	5G NR n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	5G NR n48	TDD	30	20, 30, 40
	5G NR n66	FDD	15	5, 10, 15, 20, 30
	5G NR n71	FDD	15	5, 10, 15, 20
	5G NR n77	TDD	30	20, 30, 40, 60, 80, 100
	5G NR n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
NSA	5G NR n2	FDD	15	5, 10, 15, 20
	5G NR n5	FDD	15	5, 10, 15, 20
	5G NR n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	5G NR n66	FDD	15	5, 10, 15, 20, 30
	5G NR n71	FDD	15	5, 10, 15, 20
	5G NR n77	TDD	30	20, 30, 40, 60, 80, 100
	5G NR n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100

2. For 5G NR test procedure was following step similar FCC KDB 941225 D05:

- (1) For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg, CP-OFDM testing is not required.
- (2) For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
- (3) SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offset at the upper edge, middle and lower edge of each required test channel.
- (4) 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- (5) QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% RB and 1RB allocations and the highest reported SAR for 1RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output

- power channel, and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- (6) Pi/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, Pi/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- (7) Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.

Table 6.2.2.3-1: Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$		0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM		≤ 2.5	
CP-OFDM	256 QAM		≤ 4.5	
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	
NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm. NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.				

3. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level. So SA SAR can represent NSA mode SAR.
4. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
5. Due to test setup limitations, SAR testing for NR TDD was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission, Since the power of class 2 is higher, only the power class 2 will be SAR tested.
6. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing

NR Band Tune-up:

Band	Antenna	DSI0	DSI-1	DSI-2
		Ful Power	Snsor on (Single)	Snsor on (Combine)
		Tune-up Limit	Tune-up Limit	Tune-up Limit
NR n2	Ant0	25	13.5	9
NR n2	Ant2	25	23	19
NR n5	Ant0	25	24	18.5
NR n7	Ant0	25.5	18.5	13.5
NR n7	Ant2	25.5	23	21.5
NR n25	Ant0	25	13.5	9
NR n25	Ant2	25	23.5	19
NR n30	Ant0	25	17	13
NR n30	Ant2	25	17	13
NR n38	Ant0	25.5	18.5	13.5
NR n41 PC3	Ant0	25.5	19.5	14
NR n41 PC2	Ant0	27	19.5	14
NR n41 PC3	Ant2	25.5	20.5	15.5
NR n41 PC2	Ant2	27	20.5	15.5
NR n48	Ant1	25.5	22	17
NR n66	Ant0	25.5	16.5	12
NR n66	Ant2	25.5	25.5	22.5
NR n71	Ant0	25.5	25.5	23
NR n77 PC3	Ant1	24.5	20	15.5
NR n77 PC2	Ant1	27	20	15.5
NR n77 PC3	Ant0+1	24	17.5	15.5
NR n77 PC2	Ant0+1	25.5	17.5	15.5
NR n78 PC3	Ant1	24.5	20.5	16
NR n78 PC2	Ant1	27	20.5	16
NR n78 PC3	Ant0+1	24	17.5	15.5
NR n78 PC2	Ant0+1	25.5	17.5	15.5

< EN-DC combination >

ENDC Combination	Antenna TX	
	LTE TX	NR TX
DC_2A_n5A	ANT2	ANT0
DC_2A_n41A	ANT0	ANT2
DC_2A_n66A	ANT0	ANT2
DC_2A_n71A	ANT2	ANT0
DC_2A_n77A	ANT0	ANT1
DC_2A_n78A	ANT0	ANT1
DC_5A_n2A	ANT0	ANT2
DC_5A_n66A	ANT0	ANT2
DC_5A_n77A	ANT0	ANT1
DC_5A_n78A	ANT0	ANT1
DC_7A_n5A	ANT2	ANT0
DC_7A_n66A	ANT0	ANT2
DC_7A_n78A	ANT0	ANT1
DC_12A_n2A	ANT0	ANT2
DC_12A_n66A	ANT0	ANT2
DC_12A_n77A	ANT0	ANT1
DC_12A_n78A	ANT0	ANT1
DC_13A_n2A	ANT0	ANT2
DC_13A_n66A	ANT0	ANT2
DC_13A_n77A	ANT0	ANT1
DC_14A_n2A	ANT0	ANT2
DC_14A_n66A	ANT0	ANT2
DC_14A_n77A	ANT0	ANT1
DC_19A_n78A	ANT0	ANT1
DC_25A_n41A	ANT2	ANT0
DC_26A_n41A	ANT0	ANT2
DC_30A_n2A	ANT0	ANT2
DC_30A_n5A	ANT2	ANT0
DC_30A_n66A	ANT0	ANT2
DC_30A_n77A	ANT0	ANT1
DC_38A_n78A	ANT0	ANT1
DC_41A_n77A	ANT0	ANT1
DC_41A_n78A	ANT0	ANT1
DC_48A_n66A	ANT1	ANT0
DC_66A_n2A	ANT0	ANT2
DC_66A_n5A	ANT2	ANT0
DC_66A_n41A	ANT0	ANT2
DC_66A_n71A	ANT2	ANT0
DC_66A_n77A	ANT0	ANT1
DC_66A_n78A	ANT0	ANT1

ENDC Combination	Antenna TX	
	LTE TX	NR TX
DC_71A_n2A	ANT0	ANT2
DC_71A_n66A	ANT0	ANT2

Note:

1. For ENDC Simultaneous SAR analysis is performed using standalone SAR summed together and they are more conservative for ENDC.
2. For detailed simultaneous transmission analysis results of EN-DC, please refer to Appendix E.

NR Uplink Carrier Aggregation (CA) Setup Configurations

NR Uplink CA	2CC Uplink Carrier Aggregation
Inter Band	Tx Antenna
CA_n2A-n5A	ANT2 & ANT0
CA_n2A-n30A	ANT2 & ANT0
CA_n2A-n48A	ANT0 & ANT1
CA_n2A-n66A	ANT0 & ANT2
CA_n2A-n77A	ANT0 & ANT1
CA_n5A-n30A	ANT0 & ANT2
CA_n5A-n48A	ANT0 & ANT1
CA_n5A-n66A	ANT0 & ANT2
CA_n5A-n77A	ANT0 & ANT1
CA_n7A-n78A	ANT0 & ANT1
CA_n25A-n41A	ANT0 & ANT2
CA_n25A-n48A	ANT0 & ANT1
CA_n25A-n66A	ANT0 & ANT2
CA_n25A-n71A	ANT2 & ANT0
CA_n25A-n77A	ANT0 & ANT1
CA_n30A-n66A	ANT0 & ANT2
CA_n30A-n77A	ANT0 & ANT1
CA_n41A-n66A	ANT2 & ANT0
CA_n41A-n71A	ANT2 & ANT0
CA_n41A-n77A	ANT0 & ANT1
CA_n48A-n66A	ANT1 & ANT0
CA_n48A-n71A	ANT1 & ANT0
CA_n66A-n71A	ANT2 & ANT0
CA_n66A-n77A	ANT0 & ANT1
CA_n71A-n77A	ANT0 & ANT1

<Considerations Related to WLAN for Setup and Testing>

In general, various vendor specific external test software and chipset based internal test modes are typically used for SAR measurement. These chipset based test mode utilities are generally hardware and manufacturer dependent, and often include substantial flexibility to reconfigure or reprogram a device. A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement. The test frequencies established using test mode must correspond to the actual channel frequencies. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. In addition, a periodic transmission duty factor is required for current generation SAR systems to measure SAR correctly. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

According to KDB 248227 D01, this device has installed WLAN engineering testing software which can provide continuous transmitting RF signal. During WLAN SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

Initial Test Configuration

An initial test configuration is determined for OFDM transmission modes in 2.4 GHz and 5 GHz bands 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. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.

Subsequent Test Configuration

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. When the highest reported SAR for the initial test configuration according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

SAR Test Configuration and Channel Selection

When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is using largest channel bandwidth, lowest order modulation, lowest data rate, and lowest order 802.11 mode (i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n). After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following.

- 1) The channel closest to mid-band frequency is selected for SAR measurement.
- 2) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

Test Reduction for U-NII-1 (5.2 GHz) and U-NII-2A (5.3 GHz) Bands

For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following.

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition).
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration.

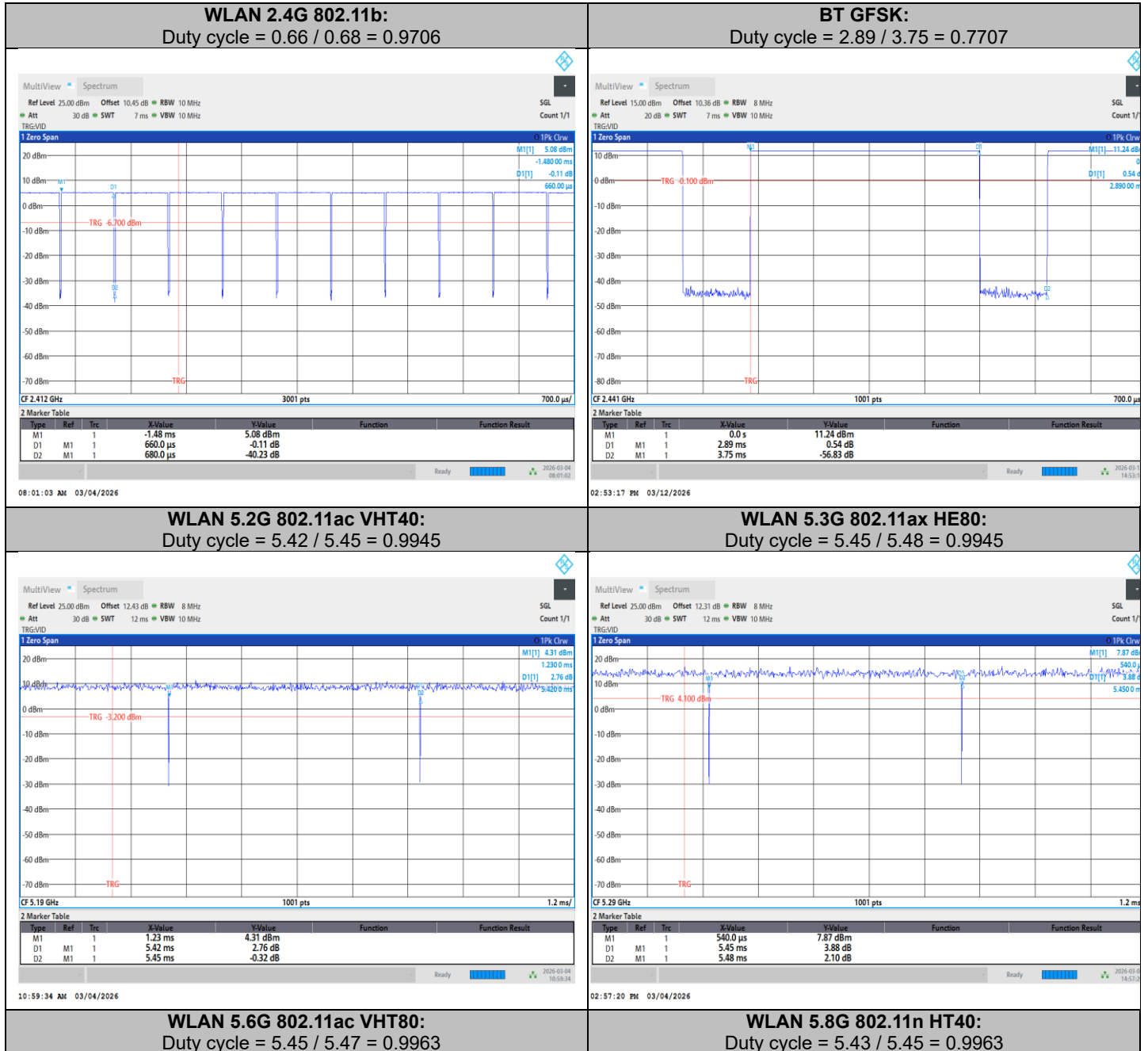
<Considerations Related to Bluetooth for Setup and Testing>

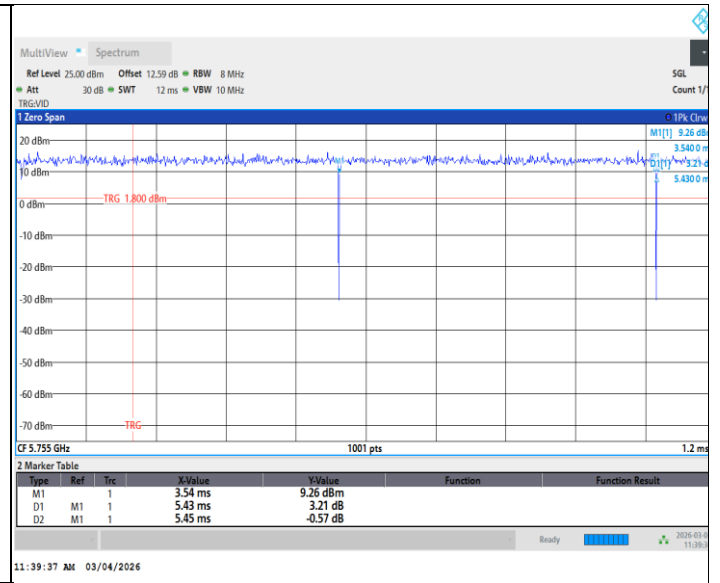
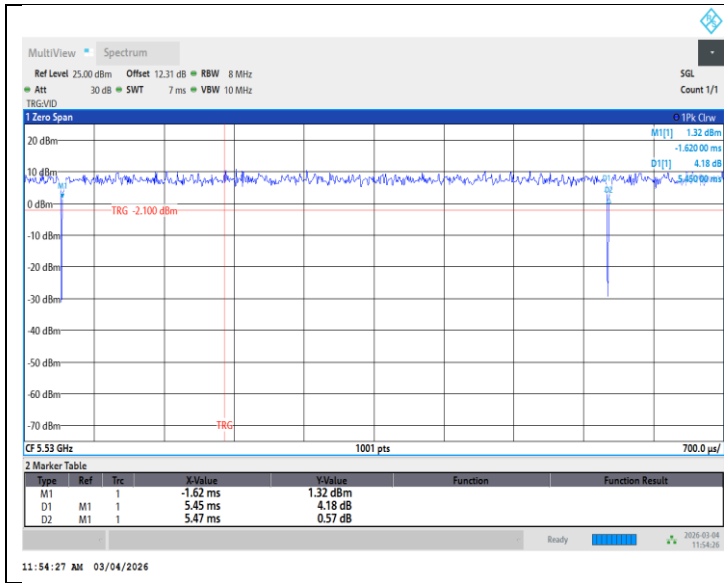
This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

<NFC Note>

NFC mainly operate in hand-held extremity exposure conditions, therefore Standalone 10-g extremity SAR testing is required.

<Duty Cycle of WLAN Test Signal>





4.2 EUT Testing Position

4.2.1 Body Exposure Conditions

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.

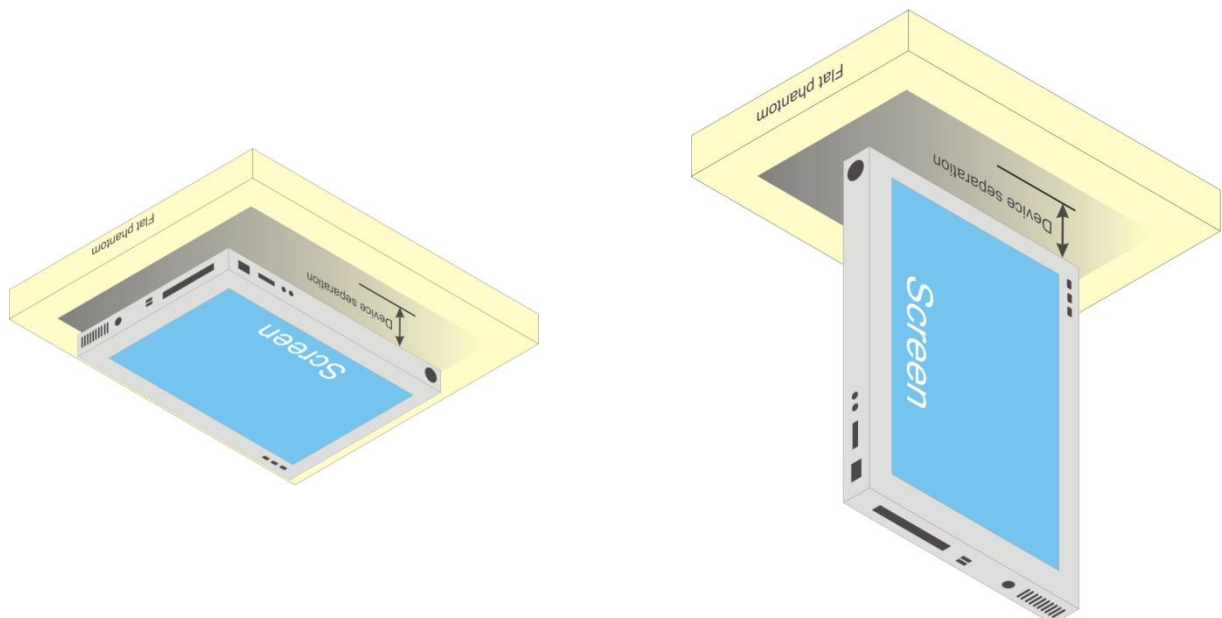


Fig-4.1 Illustration for Tablet Setup

4.2.2 Extremity Exposure Conditions

For smart phones with a display diagonal dimension > 15 cm or an overall diagonal dimension > 16 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g SAR > 1.2 W/kg. The normal tablet procedures in KDB 616217 are required when the over diagonal dimension of the device is > 20 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Extremity 10-g SAR is also not required for the front (top) surface of large form factor full size tablets. The more conservative tablet SAR results can be used to support the 10-g extremity SAR for phablet mode.

4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Target Conductivity (σ)	Target Permittivity (ϵ_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Jun. 06, 2026	HSL	13	21.5	0.717	53.200	0.75	55.00	-4.40	-3.27
May. 22, 2026	HSL	750	21.4	0.893	43.900	0.89	41.90	0.34	4.77
May. 23, 2026	HSL	835	21.6	0.925	43.500	0.90	41.50	2.78	4.82
May. 24, 2026	HSL	900	21.5	0.931	42.000	0.97	41.50	-4.02	1.20
Jun. 11, 2026	HSL	1750	21.3	1.400	40.200	1.37	40.10	2.19	0.25
Jun. 12, 2026	HSL	1750	21.6	1.400	40.400	1.37	40.10	2.19	0.75
Jun. 13, 2026	HSL	1950	21.4	1.420	40.700	1.40	40.00	1.43	1.75
Jun. 14, 2026	HSL	1950	21.7	1.430	40.800	1.40	40.00	2.14	2.00
Jun. 15, 2026	HSL	2300	21.3	1.650	38.100	1.67	39.50	-1.20	-3.54
Jun. 02, 2026	HSL	2450	21.2	1.760	38.600	1.80	39.20	-2.22	-1.53
Jun. 04, 2026	HSL	2450	21.2	1.750	38.500	1.80	39.20	-2.78	-1.79
Jun. 19, 2026	HSL	2550	21.3	1.850	37.300	1.91	39.07	-3.10	-4.54
Jun. 20, 2026	HSL	2550	21.3	1.860	37.400	1.91	39.07	-2.57	-4.28
Jun. 21, 2026	HSL	2550	21.3	1.840	37.200	1.91	39.07	-3.62	-4.79
Jun. 07, 2026	HSL	3500	21.4	2.840	36.500	2.91	37.93	-2.49	-3.77
Jun. 08, 2026	HSL	3500	21.4	2.800	36.100	2.91	37.93	-3.86	-4.82
Jun. 29, 2026	HSL	3500	21.4	2.820	36.300	2.91	37.93	-3.18	-4.29
Jul. 02, 2026	HSL	3500	21.4	2.910	36.800	2.91	37.93	-0.09	-2.98
Jul. 03, 2026	HSL	3500	21.4	2.870	36.700	2.91	37.93	-1.46	-3.24
Jun. 10, 2026	HSL	3700	21.7	3.020	38.400	3.12	37.70	-3.13	1.86
Jun. 30, 2026	HSL	3700	21.7	3.100	36.300	3.12	37.70	-0.56	-3.71
Jul. 04, 2026	HSL	3700	21.7	3.050	36.100	3.12	37.70	-2.17	-4.24
Jul. 01, 2026	HSL	3900	21.5	3.280	37.800	3.32	37.47	-1.28	0.88
Jul. 05, 2026	HSL	3900	21.5	3.310	38.000	3.32	37.47	-0.38	1.41
Jul. 06, 2026	HSL	5250	21.3	4.530	37.200	4.71	35.90	-3.82	3.62
Jul. 07, 2026	HSL	5250	21.3	4.480	36.800	4.71	35.90	-4.88	2.51
Jul. 08, 2026	HSL	5600	21.6	4.950	36.800	5.07	35.50	-2.37	3.66
Jul. 09, 2026	HSL	5750	21.5	5.120	36.400	5.22	35.40	-1.92	2.82

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within $\pm 5\%$ of the target values. Liquid temperature during the SAR testing must be within $\pm 2^\circ\text{C}$.

4.4 System Verification

The measuring result for system verification is tabulated as below.

<1g SAR>

Test Date	Mode	Frequency (MHz)	Input Power (mW)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Jun. 06, 2026	Head	13	1000	0.481	0.474	0.47	-1.46	1036	7802	1779
May. 22, 2026	Head	750	100	8.420	0.847	8.47	0.59	1200	7801	1779
May. 23, 2026	Head	835	100	9.630	0.948	9.48	-1.56	4d265	7801	1779
May. 24, 2026	Head	900	100	10.800	0.983	9.83	-8.98	1d111	7801	1779
Jun. 11, 2026	Head	1750	100	36.700	3.510	35.10	-4.36	1176	7802	1779
Jun. 12, 2026	Head	1750	100	36.700	3.560	35.60	-3.00	1176	7802	1779
Jun. 13, 2026	Head	1950	100	40.800	3.860	38.60	-5.39	1229	7802	1779
Jun. 14, 2026	Head	1950	100	40.800	4.050	40.50	-0.74	1229	7802	1779
Jun. 15, 2026	Head	2300	100	49.100	4.840	48.40	-1.43	1110	7802	1779
Jun. 02, 2026	Head	2450	100	53.300	5.360	53.60	0.56	1048	7802	1779
Jun. 04, 2026	Head	2450	100	53.300	5.600	56.00	5.07	1048	7802	1779
Jun. 19, 2026	Head	2550	100	55.300	5.240	52.40	-5.24	1022	7802	1779
Jun. 20, 2026	Head	2550	100	55.300	5.450	54.50	-1.45	1022	7802	1779
Jun. 21, 2026	Head	2550	100	55.300	5.470	54.70	-1.08	1022	7802	1779
Jun. 07, 2026	Head	3500	100	65.700	6.590	65.90	0.30	1111	7802	1779
Jun. 08, 2026	Head	3500	100	65.700	6.650	66.50	1.22	1111	7802	1779
Jun. 29, 2026	Head	3500	100	65.700	6.410	64.10	-2.44	1111	7802	1779
Jul. 02, 2026	Head	3500	100	65.700	6.420	64.20	-2.28	1111	7802	1779
Jul. 03, 2026	Head	3500	100	65.700	6.530	65.30	-0.61	1111	7802	1779
Jun. 10, 2026	Head	3700	100	66.600	6.280	62.80	-5.71	1082	7802	1779
Jun. 30, 2026	Head	3700	100	66.600	6.860	68.60	3.00	1082	7802	1779
Jul. 04, 2026	Head	3700	100	66.600	6.420	64.20	-3.60	1082	7802	1779
Jul. 01, 2026	Head	3900	100	68.200	6.910	69.10	1.32	1055	7802	1779
Jul. 05, 2026	Head	3900	100	68.200	6.600	66.00	-3.23	1055	7802	1779
Jul. 06, 2026	Head	5250	100	77.300	7.660	76.60	-0.91	1315	7802	1288
Jul. 07, 2026	Head	5250	100	77.300	7.690	76.90	-0.52	1315	7802	1288
Jul. 08, 2026	Head	5600	100	81.700	8.580	85.80	5.02	1315	7802	1288
Jul. 09, 2026	Head	5750	100	77.100	7.710	77.10	0.00	1315	7802	1288

<10g SAR>

Test Date	Mode	Frequency (MHz)	Input Power (mW)	1W Target SAR-10g (W/kg)	Measured SAR-10g (W/kg)	Normalized to 1W SAR-10g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Jun. 06, 2026	Head	13	1000	0.297	0.293	0.29	-1.35	1036	7802	1779
May. 22, 2026	Head	750	100	5.550	0.556	5.56	0.18	1200	7801	1779
May. 23, 2026	Head	835	100	6.330	0.618	6.18	-2.37	4d265	7801	1779
May. 24, 2026	Head	900	100	6.980	0.634	6.34	-9.17	1d111	7801	1779
Jun. 11, 2026	Head	1750	100	19.500	1.890	18.90	-3.08	1176	7802	1779
Jun. 12, 2026	Head	1750	100	19.500	1.910	19.10	-2.05	1176	7802	1779
Jun. 13, 2026	Head	1950	100	20.900	2.000	20.00	-4.31	1229	7802	1779
Jun. 14, 2026	Head	1950	100	20.900	2.100	21.00	0.48	1229	7802	1779
Jun. 15, 2026	Head	2300	100	23.200	2.340	23.40	0.86	1110	7802	1779
Jun. 02, 2026	Head	2450	100	24.600	2.520	25.20	2.44	1048	7802	1779
Jun. 04, 2026	Head	2450	100	24.600	2.640	26.40	7.32	1048	7802	1779
Jun. 19, 2026	Head	2550	100	25.500	2.410	24.10	-5.49	1022	7802	1779
Jun. 20, 2026	Head	2550	100	25.500	2.510	25.10	-1.57	1022	7802	1779
Jun. 21, 2026	Head	2550	100	25.500	2.520	25.20	-1.18	1022	7802	1779
Jun. 07, 2026	Head	3500	100	24.800	2.600	26.00	4.84	1111	7802	1779
Jun. 08, 2026	Head	3500	100	24.800	2.620	26.20	5.65	1111	7802	1779
Jun. 29, 2026	Head	3500	100	24.800	2.520	25.20	1.61	1111	7802	1779
Jul. 02, 2026	Head	3500	100	24.800	2.530	25.30	2.02	1111	7802	1779
Jul. 03, 2026	Head	3500	100	24.800	2.570	25.70	3.63	1111	7802	1779
Jun. 10, 2026	Head	3700	100	24.200	2.360	23.60	-2.48	1082	7802	1779
Jun. 30, 2026	Head	3700	100	24.200	2.580	25.80	6.61	1082	7802	1779
Jul. 04, 2026	Head	3700	100	24.200	2.410	24.10	-0.41	1082	7802	1779
Jul. 01, 2026	Head	3900	100	23.500	2.490	24.90	5.96	1055	7802	1779
Jul. 05, 2026	Head	3900	100	23.500	2.380	23.80	1.28	1055	7802	1779
Jul. 06, 2026	Head	5250	100	21.600	2.190	21.90	1.39	1315	7802	1288
Jul. 07, 2026	Head	5250	100	21.600	2.200	22.00	1.85	1315	7802	1288
Jul. 08, 2026	Head	5600	100	22.700	2.440	24.40	7.49	1315	7802	1288
Jul. 09, 2026	Head	5750	100	21.200	2.180	21.80	2.83	1315	7802	1288

Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

4.5 Maximum Output Power

4.5.1 Maximum Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance please refer to Appendix D.

4.5.2 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) please refer to Appendix D.

4.6 SAR Testing Results

4.6.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- (2) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

<KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>

- (1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

- (2) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

- (3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

- (4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

<KDB 941225 D05, SAR Evaluation Considerations for 5G NR Devices>

- (1) For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not $\frac{1}{2}$ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg, CP-OFDM testing is not required.
- (2) For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth.
- (3) SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offset at the upper edge, middle and lower edge of each required test channel.
- (4) 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- (5) QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% RB and 1RB allocations and the highest reported SAR for 1RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel, and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- (6) $\pi/2$ BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, $\pi/2$ BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- (7) Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is ≤ 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
- (3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.
- (4) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

4.6.2 SAR Results for Body Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
P01	LTE 7	QPSK20M	Rear Face	0cm	21100	1	50	Ant0	DSI-1	1	-	18.50	17.75	0.03	0.846	0.313	1.000	1.189	1.01	0.37
	LTE 7	QPSK20M	Left Side	0cm	21100	1	50	Ant0	DSI-0	1	-	25.50	24.58	0.02	0.290	0.150	1.000	1.236	0.36	0.19
	LTE 7	QPSK20M	Right Side	0cm	21100	1	50	Ant0	DSI-0	1	-	25.50	24.58	-0.05	0.043	0.020	1.000	1.236	0.05	0.03
	LTE 7	QPSK20M	Top Side	0cm	21100	1	50	Ant0	DSI-1	1	-	18.50	17.75	-0.03	0.873	0.338	1.000	1.189	1.04	0.40
	LTE 7	QPSK20M	Bottom Side	0cm	21100	1	50	Ant0	DSI-0	1	-	18.50	17.75	-0.05	0.015	0.005	1.000	1.189	0.02	0.01
	LTE 7	QPSK20M	Rear Face	0cm	21100	50	0	Ant0	DSI-1	1	-	18.50	17.69	0.01	0.758	0.273	1.000	1.205	0.91	0.33
	LTE 7	QPSK20M	Left Side	0cm	21100	50	0	Ant0	DSI-0	1	-	24.50	23.78	0.06	0.250	0.129	1.000	1.180	0.30	0.15
	LTE 7	QPSK20M	Right Side	0cm	21100	50	0	Ant0	DSI-0	1	-	24.50	23.78	-0.02	0.220	0.075	1.000	1.180	0.26	0.09
	LTE 7	QPSK20M	Top Side	0cm	21100	50	0	Ant0	DSI-1	1	-	18.50	17.69	0.05	0.692	0.267	1.000	1.205	0.83	0.32
	LTE 7	QPSK20M	Bottom Side	0cm	21100	50	0	Ant0	DSI-0	1	-	24.50	23.78	0.06	0.019	0.005	1.000	1.180	0.02	0.01
	LTE 7	QPSK20M	Rear Face	0cm	20850	1	50	Ant0	DSI-1	1	-	18.50	17.53	0.04	1.040	0.381	1.000	1.250	1.30	0.48
	LTE 7	QPSK20M	Rear Face	0cm	21350	1	50	Ant0	DSI-1	1	-	18.50	17.63	0.01	1.060	0.378	1.000	1.222	1.30	0.46
	LTE 7	QPSK20M	Top Side	0cm	20850	1	50	Ant0	DSI-1	1	-	18.50	17.53	0.12	0.721	0.308	1.000	1.250	0.90	0.39
	LTE 7	QPSK20M	Top Side	0cm	21350	1	50	Ant0	DSI-1	1	-	18.50	17.63	-0.05	0.795	0.328	1.000	1.222	0.97	0.40
	LTE 7	QPSK20M	Rear Face	0cm	20850	50	0	Ant0	DSI-1	1	-	18.50	17.39	-0.02	0.753	0.279	1.000	1.291	0.97	0.36
	LTE 7	QPSK20M	Rear Face	0cm	21350	50	0	Ant0	DSI-1	1	-	18.50	17.42	0.06	0.765	0.277	1.000	1.282	0.98	0.36
	LTE 7	QPSK20M	Top Side	0cm	20850	50	0	Ant0	DSI-1	1	-	18.50	17.39	0.13	0.657	0.260	1.000	1.291	0.85	0.34
	LTE 7	QPSK20M	Top Side	0cm	21350	50	0	Ant0	DSI-1	1	-	18.50	17.42	0.02	0.644	0.254	1.000	1.282	0.83	0.33
	LTE 7	QPSK20M	Rear Face	0cm	21350	100	0	Ant0	DSI-1	1	-	18.50	17.50	0.01	0.722	0.264	1.000	1.259	0.91	0.33
	LTE 7	QPSK20M	Top Side	0cm	21350	100	0	Ant0	DSI-1	1	-	18.50	17.50	-0.06	0.667	0.276	1.000	1.259	0.84	0.35
	LTE 7	QPSK20M	Rear Face	2.9cm	21100	1	50	Ant0	DSI-0	1	-	25.50	24.58	-0.05	0.102	0.059	1.000	1.236	0.13	0.07
	LTE 7	QPSK20M	Top Side	2.9cm	21100	1	50	Ant0	DSI-0	1	-	25.50	24.58	-0.01	0.175	0.102	1.000	1.236	0.22	0.13
	LTE 7	QPSK20M	Rear Face	2.9cm	21100	50	0	Ant0	DSI-0	1	-	24.50	23.78	0.00	0.081	0.047	1.000	1.180	0.10	0.06
	LTE 7	QPSK20M	Top Side	2.9cm	21100	50	0	Ant0	DSI-0	1	-	24.50	23.78	0.03	0.139	0.079	1.000	1.180	0.16	0.09
P02	LTE 7	QPSK20M	Rear Face	0cm	21100	1	50	Ant0	DSI-2	1	-	14.00	13.19	0.00	0.339	0.125	1.000	1.205	0.41	0.15
	LTE 7	QPSK20M	Top Side	0cm	21100	1	50	Ant0	DSI-2	1	-	14.00	13.19	0.06	0.312	0.134	1.000	1.205	0.38	0.16
	LTE 7	QPSK20M	Rear Face	0cm	21100	50	0	Ant0	DSI-2	1	-	14.00	13.16	-0.02	0.302	0.109	1.000	1.213	0.37	0.13
	LTE 7	QPSK20M	Top Side	0cm	21100	50	0	Ant0	DSI-2	1	-	14.00	13.16	-0.05	0.279	0.104	1.000	1.213	0.34	0.13
	LTE 7	QPSK20M	Rear Face	0cm	20850	1	50	Ant0	DSI-2	1	-	14.00	12.95	0.06	0.315	0.133	1.000	1.274	0.40	0.17
	LTE 7	QPSK20M	Rear Face	0cm	21350	1	50	Ant0	DSI-2	1	-	14.00	13.08	0.11	0.328	0.135	1.000	1.236	0.41	0.17
	LTE 7	QPSK20M	Rear Face	0cm	21100	1	0	Ant2	DSI-1	1	-	18.50	17.94	0.14	0.940	0.431	1.000	1.138	1.07	0.49
	LTE 7	QPSK20M	Left Side	0cm	21100	1	0	Ant2	DSI-0	1	-	25.50	24.75	0.00	0.000	0.000	1.000	1.189	0.00	0.00
	LTE 7	QPSK20M	Right Side	0cm	21100	1	0	Ant2	DSI-1	1	-	18.50	17.94	0.02	0.641	0.292	1.000	1.138	0.73	0.33
	LTE 7	QPSK20M	Top Side	0cm	21100	1	0	Ant2	DSI-0	1	-	25.50	24.75	0.01	0.139	0.071	1.000	1.189	0.17	0.08
	LTE 7	QPSK20M	Bottom Side	0cm	21100	1	0	Ant2	DSI-0	1	-	25.50	24.75	0.00	0.000	0.000	1.000	1.189	0.00	0.00
	LTE 7	QPSK20M	Rear Face	0cm	21100	50	0	Ant2	DSI-1	1	-	18.50	17.67	-0.06	0.721	0.329	1.000	1.211	0.87	0.40
	LTE 7	QPSK20M	Left Side	0cm	21100	50	0	Ant2	DSI-0	1	-	24.50	23.76	0.00	0.000	0.000	1.000	1.186	0.00	0.00
	LTE 7	QPSK20M	Right Side	0cm	21100	50	0	Ant2	DSI-1	1	-	18.50	17.67	-0.14	0.518	0.235	1.000	1.211	0.63	0.28
	LTE 7	QPSK20M	Top Side	0cm	21100	50	0	Ant2	DSI-0	1	-	24.50	23.76	-0.01	0.118	0.060	1.000	1.186	0.14	0.07
	LTE 7	QPSK20M	Bottom Side	0cm	21100	50	0	Ant2	DSI-0	1	-	24.50	23.76	0.00	0.000	0.000	1.000	1.186	0.00	0.00
	LTE 7	QPSK20M	Rear Face	0cm	20850	1	0	Ant2	DSI-1	1	-	18.50	17.61	0.00	1.050	0.484	1.000	1.227	1.29	0.59
	LTE 7	QPSK20M	Rear Face	0cm	21350	1	0	Ant2	DSI-1	1	-	18.50	17.72	0.03	0.919	0.427	1.000	1.197	1.10	0.51
	LTE 7	QPSK20M	Rear Face	0cm	20850	50	0	Ant2	DSI-1	1	-	18.50	17.61	0.00	0.806	0.361	1.000	1.227	0.99	0.44
	LTE 7	QPSK20M	Rear Face	0cm	21350	50	0	Ant2	DSI-1	1	-	18.50	17.63	0.00	0.778	0.339	1.000	1.222	0.95	0.41
	LTE 7	QPSK20M	Rear Face	0cm	21100	100	0	Ant2	DSI-1	1	-	18.50	17.61	0.03	0.749	0.331	1.000	1.227	0.92	0.41
	LTE 7	QPSK20M	Rear Face	2.9cm	21100	1	0	Ant2	DSI-0	1	-	25.50	24.75	0.02	0.365	0.204	1.000	1.189	0.43	0.24
	LTE 7	QPSK20M	Right Side	1.9cm	21100	1	0	Ant2	DSI-0	1	-	25.50	24.75	0.01	0.583	0.314	1.000	1.189	0.69	0.37
	LTE 7	QPSK20M	Rear Face	2.9cm	21100	50	0	Ant2	DSI-0	1	-	24.50	23.76	-0.01	0.302	0.168	1.000	1.186	0.36	0.20
LTE 7	QPSK20M	Right Side	1.9cm	21100	50	0	Ant2	DSI-0	1	-	24.50	23.76	-0.02	0.442	0.238	1.000	1.186	0.52	0.28	
P03	LTE 7	QPSK20M	Rear Face	0cm	21100	1	0	Ant2	DSI-2	1	-	14.00	13.44	0.05	0.365	0.170	1.000	1.138	0.42	0.19
	LTE 7	QPSK20M	Right Side	0cm	21100	1	0	Ant2	DSI-2	1	-	14.00	13.44	-0.16	0.250	0.116	1.000	1.138	0.28	0.13
	LTE 7	QPSK20M	Rear Face	0cm	21100	50	0	Ant2	DSI-2	1	-	14.00	13.13	-0.02	0.300	0.137	1.000	1.222	0.37	0.17
	LTE 7	QPSK20M	Right Side	0cm	21100	50	0	Ant2	DSI-2	1	-	14.00	13.13	0.03	0.206	0.095	1.000	1.222	0.25	0.12
	LTE 7	QPSK20M	Rear Face	0cm	20850	1	0	Ant2	DSI-2	1	-	14.00	13.35	0.02	0.434	0.202	1.000	1.161	0.50	0.24
	LTE 7	QPSK20M	Rear Face	0cm	21350	1	0	Ant2	DSI-2	1	-	14.00	13.09	-0.02	0.381	0.169	1.000	1.233	0.47	0.21
	LTE 12	QPSK10M	Rear Face	0cm	23060	1	0	Ant0	DSI-1	1	-	25.50	24.84	0.02	0.847	0.481	1.000			



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	LTE 13	QPSK10M	Left Side	0cm	23230	25	0	Ant0	DSI-0	1	-	24.50	23.72	0.01	0.217	0.088	1.000	1.197	0.26	0.11
	LTE 13	QPSK10M	Right Side	0cm	23230	25	0	Ant0	DSI-0	1	-	24.50	23.72	0.03	0.042	0.024	1.000	1.197	0.05	0.03
	LTE 13	QPSK10M	Top Side	0cm	23230	25	0	Ant0	DSI-1	1	-	24.00	23.11	-0.10	0.640	0.356	1.000	1.227	0.79	0.44
	LTE 13	QPSK10M	Bottom Side	0cm	23230	25	0	Ant0	DSI-0	1	-	24.50	23.72	0.00	0.000	0.000	1.000	1.197	0.00	0.00
	LTE 13	QPSK10M	Rear Face	0cm	23230	50	0	Ant0	DSI-1	1	-	24.00	23.02	-0.05	0.747	0.402	1.000	1.253	0.94	0.50
	LTE 13	QPSK10M	Top Side	0cm	23230	50	0	Ant0	DSI-1	1	-	24.00	23.02	-0.09	0.690	0.365	1.000	1.253	0.87	0.46
	LTE 13	QPSK10M	Rear Face	2.9cm	23230	1	0	Ant0	DSI-0	1	-	25.50	24.71	0.03	0.082	0.056	1.000	1.199	0.10	0.07
	LTE 13	QPSK10M	Top Side	2.9cm	23230	1	0	Ant0	DSI-0	1	-	25.50	24.71	0.07	0.055	0.038	1.000	1.199	0.07	0.05
	LTE 13	QPSK10M	Rear Face	2.9cm	23230	25	0	Ant0	DSI-0	1	-	24.50	23.72	0.01	0.067	0.046	1.000	1.197	0.08	0.06
	LTE 13	QPSK10M	Top Side	2.9cm	23230	25	0	Ant0	DSI-0	1	-	24.50	23.72	0.01	0.044	0.030	1.000	1.197	0.05	0.04
	LTE 13	QPSK10M	Rear Face	0cm	23230	1	0	Ant0	DSI-2	1	-	19.50	18.47	0.02	0.332	0.182	1.000	1.268	0.42	0.23
	LTE 13	QPSK10M	Top Side	0cm	23230	1	0	Ant0	DSI-2	1	-	19.50	18.47	0.01	0.327	0.172	1.000	1.268	0.42	0.22
	LTE 13	QPSK10M	Rear Face	0cm	23230	25	0	Ant0	DSI-2	1	-	19.50	18.35	0.01	0.312	0.173	1.000	1.303	0.41	0.23
	LTE 13	QPSK10M	Top Side	0cm	23230	25	0	Ant0	DSI-2	1	-	19.50	18.35	0.00	0.252	0.133	1.000	1.303	0.33	0.17
	LTE 14	QPSK10M	Rear Face	0cm	23330	1	0	Ant0	DSI-1	1	-	24.00	23.48	0.01	0.910	0.463	1.000	1.127	1.03	0.52
	LTE 14	QPSK10M	Left Side	0cm	23330	1	0	Ant0	DSI-0	1	-	25.50	24.83	0.00	0.281	0.115	1.000	1.167	0.33	0.13
	LTE 14	QPSK10M	Right Side	0cm	23330	1	0	Ant0	DSI-0	1	-	25.50	24.83	-0.03	0.048	0.027	1.000	1.167	0.06	0.03
	LTE 14	QPSK10M	Top Side	0cm	23330	1	0	Ant0	DSI-1	1	-	24.00	23.48	0.00	0.920	0.457	1.000	1.127	1.04	0.52
	LTE 14	QPSK10M	Bottom Side	0cm	23330	1	0	Ant0	DSI-0	1	-	25.50	24.83	0.00	0.000	0.000	1.000	1.167	0.00	0.00
P04	LTE 14	QPSK10M	Rear Face	0cm	23330	25	0	Ant0	DSI-1	1	-	24.00	23.17	0.00	0.879	0.459	1.000	1.211	1.06	0.56
	LTE 14	QPSK10M	Left Side	0cm	23330	25	0	Ant0	DSI-0	1	-	24.50	23.68	0.01	0.222	0.092	1.000	1.208	0.27	0.11
	LTE 14	QPSK10M	Right Side	0cm	23330	25	0	Ant0	DSI-0	1	-	24.50	23.68	0.00	0.000	0.000	1.000	1.208	0.00	0.00
	LTE 14	QPSK10M	Top Side	0cm	23330	25	0	Ant0	DSI-1	1	-	24.00	23.17	0.01	0.709	0.352	1.000	1.211	0.86	0.43
	LTE 14	QPSK10M	Bottom Side	0cm	23330	25	0	Ant0	DSI-0	1	-	24.50	23.68	0.00	0.000	0.000	1.000	1.208	0.00	0.00
	LTE 14	QPSK10M	Rear Face	0cm	23330	50	0	Ant0	DSI-1	1	-	24.00	23.12	0.02	0.855	0.449	1.000	1.225	1.05	0.55
	LTE 14	QPSK10M	Top Side	0cm	23330	50	0	Ant0	DSI-1	1	-	24.00	23.12	-0.03	0.666	0.350	1.000	1.225	0.82	0.43
	LTE 14	QPSK10M	Rear Face	2.9cm	23330	1	0	Ant0	DSI-0	1	-	25.50	24.83	-0.01	0.098	0.067	1.000	1.167	0.11	0.08
	LTE 14	QPSK10M	Top Side	2.9cm	23330	1	0	Ant0	DSI-0	1	-	25.50	24.83	0.00	0.070	0.047	1.000	1.167	0.08	0.06
	LTE 14	QPSK10M	Rear Face	2.9cm	23330	25	0	Ant0	DSI-0	1	-	24.50	23.68	0.02	0.078	0.054	1.000	1.208	0.09	0.07
	LTE 14	QPSK10M	Top Side	2.9cm	23330	25	0	Ant0	DSI-0	1	-	24.50	23.68	0.01	0.057	0.039	1.000	1.208	0.07	0.05
	LTE 14	QPSK10M	Rear Face	0cm	23330	1	0	Ant0	DSI-2	1	-	19.50	18.54	0.00	0.340	0.184	1.000	1.247	0.42	0.23
	LTE 14	QPSK10M	Top Side	0cm	23330	1	0	Ant0	DSI-2	1	-	19.50	18.54	0.05	0.335	0.173	1.000	1.247	0.42	0.22
	LTE 14	QPSK10M	Rear Face	0cm	23330	25	0	Ant0	DSI-2	1	-	19.50	18.48	0.01	0.321	0.160	1.000	1.265	0.41	0.20
	LTE 14	QPSK10M	Top Side	0cm	23330	25	0	Ant0	DSI-2	1	-	19.50	18.48	0.00	0.284	0.138	1.000	1.265	0.36	0.18
P05	LTE 19	QPSK15M	Rear Face	0cm	24075	1	37	Ant0	DSI-1	1	-	24.50	23.98	-0.01	1.130	0.581	1.000	1.127	1.27	0.66
	LTE 19	QPSK15M	Left Side	0cm	24075	1	37	Ant0	DSI-0	1	-	25.50	25.23	-0.01	0.291	0.128	1.000	1.064	0.31	0.14
	LTE 19	QPSK15M	Right Side	0cm	24075	1	37	Ant0	DSI-0	1	-	25.50	25.23	0.01	0.046	0.030	1.000	1.064	0.05	0.03
	LTE 19	QPSK15M	Top Side	0cm	24075	1	37	Ant0	DSI-1	1	-	24.50	23.98	0.02	0.886	0.402	1.000	1.127	1.00	0.45
	LTE 19	QPSK15M	Bottom Side	0cm	24075	1	37	Ant0	DSI-0	1	-	25.50	25.23	0.00	0.000	0.000	1.000	1.064	0.00	0.00
	LTE 19	QPSK15M	Rear Face	0cm	24075	36	39	Ant0	DSI-1	1	-	24.50	23.84	0.01	0.840	0.421	1.000	1.164	0.98	0.49
	LTE 19	QPSK15M	Left Side	0cm	24075	36	39	Ant0	DSI-0	1	-	24.50	24.25	0.00	0.227	0.100	1.000	1.059	0.24	0.11
	LTE 19	QPSK15M	Right Side	0cm	24075	36	39	Ant0	DSI-0	1	-	24.50	24.25	0.00	0.000	0.000	1.000	1.059	0.00	0.00
	LTE 19	QPSK15M	Top Side	0cm	24075	36	39	Ant0	DSI-1	1	-	24.50	23.84	0.13	0.719	0.328	1.000	1.164	0.84	0.38
	LTE 19	QPSK15M	Bottom Side	0cm	24075	36	39	Ant0	DSI-0	1	-	24.50	24.25	0.00	0.000	0.000	1.000	1.059	0.00	0.00
	LTE 19	QPSK15M	Rear Face	0cm	24075	36	39	Ant0	DSI-1	1	-	24.50	23.84	0.01	0.837	0.420	1.000	1.164	0.97	0.49
	LTE 19	QPSK15M	Top Side	0cm	24075	36	39	Ant0	DSI-1	1	-	24.50	23.84	0.00	0.514	0.277	1.000	1.164	0.60	0.32
	LTE 19	QPSK15M	Rear Face	2.9cm	24075	1	37	Ant0	DSI-0	1	-	25.50	25.23	0.00	0.119	0.084	1.000	1.064	0.13	0.09
	LTE 19	QPSK15M	Top Side	2.9cm	24075	1	37	Ant0	DSI-0	1	-	25.50	25.23	0.00	0.000	0.000	1.000	1.064	0.00	0.00
	LTE 19	QPSK15M	Rear Face	2.9cm	24075	36	39	Ant0	DSI-0	1	-	24.50	24.25	0.06	0.094	0.066	1.000	1.059	0.10	0.07
	LTE 19	QPSK15M	Top Side	2.9cm	24075	36	39	Ant0	DSI-0	1	-	24.50	24.25	0.00	0.000	0.000	1.000	1.059	0.00	0.00
	LTE 19	QPSK15M	Rear Face	0cm	24075	1	37	Ant0	DSI-2	1	-	20.50	19.91	-0.02	0.439	0.225	1.000	1.146	0.50	0.26
	LTE 19	QPSK15M	Top Side	0cm	24075	1	37	Ant0	DSI-2	1	-	20.50	19.91	-0.01	0.255	0.141	1.000	1.146	0.29	0.16
	LTE 19	QPSK15M	Rear Face	0cm	24075	36	39	Ant0	DSI-2	1	-	20.50	19.68	0.05	0.330	0.170	1.000	1.208	0.40	0.21
	LTE 19	QPSK15M	Top Side	0cm	24075	36	39	Ant0	DSI-2	1	-	20.50	19.68	0.04	0.220	0.118	1.000	1.208	0.27	0.14
P06	LTE 25/2	QPSK20M	Rear Face	0cm	26140	1	50	Ant0	DSI-1	1	-	15.50	14.95	-0.01	1.130	0.561	1.000	1.135	1.28	0.64
	LTE 25/2	QPSK20M	Left Side	0cm	26140	1	50	Ant0	DSI-0	1	-	25.50	25.20	-0.03	0.077	0.046	1.000	1.072	0.08	0.05
	LTE 25/2	QPSK20M	Right Side	0cm	26140	1	50	Ant0	DSI-0	1	-	25.50	25.20	0.08	0.141	0.080	1.000	1.072	0.15	0.09
	LTE 25/2	QPSK20M	Top Side	0cm	26140	1	50	Ant0	DSI-1	1	-	15.50	14.95	0.00	1.010	0.462	1.000	1.135	1.15	0.52
	LTE 25/2	QPSK20M	Bottom Side	0cm	26140	1	50	Ant0	DSI-0	1	-	25.50	25.20	0.05	0.018	0.007	1.000	1.072	0.02	0.01
	LTE 25/2	QPSK20M	Rear Face	0cm	26140	50	25	Ant0	DSI-1	1	-	15.50	14.65	0.05	0.856	0.412	1.000	1.216	1.04	0.50
	LTE 25/2	QPSK20M	Left Side	0cm	26140	50	25	Ant0	DSI-0	1	-	24.50	24.02	0.04	0.055	0.033	1.000	1.117	0.06	0.04
	LTE 25/2	QPSK20M	Right Side	0cm	26140	50	25	Ant0	DSI-0	1	-	24.50	24.02	0.08	0.111	0.067	1.000	1.117	0.12	0.08
	LTE 25/2	QPSK20M	Top Side	0cm	26140	50	25	Ant0	DSI-1	1	-	15.50	14.65	0.00	0.840	0.384	1.000	1.216	1.02	0.47
	LTE 25/2	QPSK20M	Bottom Side	0cm	26140	50	25	Ant0	DSI-0	1	-	24.50	24.02	0.00	0.000	0.000	1.000	1.117	0.00	0.00
	LTE 25/2	QPSK20M	Rear Face	0cm	26365	1	50	Ant0	DSI-1	1	-	15.50	14.90	-0.03	1.030	0.508	1.000	1.148	1.18	0.58
	LTE 25/2	QPSK20M	Top Side	0cm	26365	1	50	Ant0	DSI-1	1	-	15.50	14.28	0.01	0.910	0.456	1.000	1.324	1.21	0.60
	LTE 25/2	QPSK20M	Left Side	0cm	26365	1	50	Ant0	DSI-1	1	-	15.50	14.90	0.00	0.837					



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	LTE 25/2	QPSK20M	Rear Face	0cm	26365	50	50	Ant2	DSI-1	1	-	24.00	23.16	0.02	0.911	0.433	1.000	1.213	1.11	0.53
	LTE 25/2	QPSK20M	Rear Face	0cm	26590	100	0	Ant2	DSI-1	1	-	24.00	23.19	0.01	0.882	0.419	1.000	1.205	1.06	0.51
	LTE 25/2	QPSK20M	Rear Face	2.9cm	26590	1	50	Ant2	DSI-0	1	-	25.50	24.85	0.00	0.000	0.000	1.000	1.161	0.00	0.00
	LTE 25/2	QPSK20M	Right Side	1.9cm	26590	1	50	Ant2	DSI-0	1	-	25.50	24.85	-0.03	0.046	0.028	1.000	1.161	0.05	0.03
	LTE 25/2	QPSK20M	Rear Face	2.9cm	26590	50	50	Ant2	DSI-0	1	-	24.50	23.96	0.00	0.000	0.000	1.000	1.132	0.00	0.00
	LTE 25/2	QPSK20M	Right Side	1.9cm	26590	50	50	Ant2	DSI-0	1	-	24.50	23.96	0.00	0.000	0.000	1.000	1.132	0.00	0.00
	LTE 25/2	QPSK20M	Rear Face	0cm	26590	1	50	Ant2	DSI-2	1	-	21.00	19.93	0.00	0.416	0.220	1.000	1.279	0.53	0.28
	LTE 25/2	QPSK20M	Right Side	0cm	26590	1	50	Ant2	DSI-2	1	-	21.00	19.93	0.00	0.128	0.065	1.000	1.279	0.16	0.08
	LTE 25/2	QPSK20M	Rear Face	0cm	26590	50	50	Ant2	DSI-2	1	-	21.00	19.85	0.01	0.385	0.188	1.000	1.303	0.50	0.25
	LTE 25/2	QPSK20M	Right Side	0cm	26590	50	50	Ant2	DSI-2	1	-	21.00	19.85	0.03	0.104	0.052	1.000	1.303	0.14	0.07
	LTE 25/2	QPSK20M	Rear Face	0cm	26140	1	50	Ant2	DSI-2	1	-	21.00	19.81	-0.02	0.370	0.193	1.000	1.315	0.49	0.25
	LTE 25/2	QPSK20M	Rear Face	0cm	26365	1	50	Ant2	DSI-2	1	-	21.00	19.85	0.01	0.406	0.211	1.000	1.303	0.53	0.28
	LTE 26/5	QPSK15M	Rear Face	0cm	26965	1	0	Ant0	DSI-1	1	-	24.50	23.86	-0.02	1.060	0.555	1.000	1.159	1.23	0.64
	LTE 26/5	QPSK15M	Left Side	0cm	26965	1	0	Ant0	DSI-0	1	-	25.50	25.11	-0.01	0.323	0.136	1.000	1.094	0.35	0.15
	LTE 26/5	QPSK15M	Right Side	0cm	26965	1	0	Ant0	DSI-0	1	-	25.50	25.11	0.00	0.000	0.000	1.000	1.094	0.00	0.00
	LTE 26/5	QPSK15M	Top Side	0cm	26965	1	0	Ant0	DSI-1	1	-	24.50	23.86	0.00	0.610	0.322	1.000	1.159	0.71	0.37
	LTE 26/5	QPSK15M	Bottom Side	0cm	26965	1	0	Ant0	DSI-0	1	-	25.50	25.11	0.00	0.000	0.000	1.000	1.094	0.00	0.00
	LTE 26/5	QPSK15M	Rear Face	0cm	26965	36	0	Ant0	DSI-1	1	-	24.50	23.73	0.00	0.990	0.434	1.000	1.194	1.18	0.52
	LTE 26/5	QPSK15M	Left Side	0cm	26965	36	0	Ant0	DSI-0	1	-	24.50	24.11	0.03	0.259	0.109	1.000	1.094	0.28	0.12
	LTE 26/5	QPSK15M	Right Side	0cm	26965	36	0	Ant0	DSI-0	1	-	24.50	24.11	0.00	0.000	0.000	1.000	1.094	0.00	0.00
	LTE 26/5	QPSK15M	Top Side	0cm	26965	36	0	Ant0	DSI-1	1	-	24.50	23.73	0.02	0.657	0.303	1.000	1.194	0.78	0.36
	LTE 26/5	QPSK15M	Bottom Side	0cm	26965	36	0	Ant0	DSI-0	1	-	24.50	24.11	0.00	0.000	0.000	1.000	1.094	0.00	0.00
P07	LTE 26/5	QPSK15M	Rear Face	0cm	26765	1	0	Ant0	DSI-1	1	-	24.50	23.61	0.01	1.060	0.567	1.000	1.227	1.30	0.70
	LTE 26/5	QPSK15M	Rear Face	0cm	26865	1	0	Ant0	DSI-1	1	-	24.50	23.83	0.01	1.060	0.558	1.000	1.167	1.24	0.65
	LTE 26/5	QPSK15M	Rear Face	0cm	26765	36	0	Ant0	DSI-1	1	-	24.50	23.54	0.00	0.879	0.465	1.000	1.247	1.10	0.58
	LTE 26/5	QPSK15M	Rear Face	0cm	26865	36	0	Ant0	DSI-1	1	-	24.50	23.64	-0.01	1.010	0.469	1.000	1.219	1.23	0.57
	LTE 26/5	QPSK15M	Rear Face	0cm	26965	75	0	Ant0	DSI-1	1	-	24.50	23.72	0.05	0.872	0.434	1.000	1.197	1.04	0.52
	LTE 26/5	QPSK15M	Rear Face	2.9cm	26965	1	0	Ant0	DSI-0	1	-	25.50	25.11	0.01	0.116	0.082	1.000	1.094	0.13	0.09
	LTE 26/5	QPSK15M	Top Side	2.9cm	26965	1	0	Ant0	DSI-0	1	-	25.50	25.11	0.00	0.000	0.000	1.000	1.094	0.00	0.00
	LTE 26/5	QPSK15M	Rear Face	2.9cm	26965	36	0	Ant0	DSI-0	1	-	24.50	24.11	0.11	0.095	0.066	1.000	1.094	0.10	0.07
	LTE 26/5	QPSK15M	Top Side	2.9cm	26965	36	0	Ant0	DSI-0	1	-	24.50	24.11	0.00	0.000	0.000	1.000	1.094	0.00	0.00
	LTE 26/5	QPSK15M	Rear Face	0cm	26965	1	0	Ant0	DSI-2	1	-	20.00	19.38	0.01	0.410	0.200	1.000	1.153	0.47	0.23
	LTE 26/5	QPSK15M	Top Side	0cm	26965	1	0	Ant0	DSI-2	1	-	20.00	19.38	0.01	0.274	0.133	1.000	1.153	0.32	0.15
	LTE 26/5	QPSK15M	Rear Face	0cm	26965	36	0	Ant0	DSI-2	1	-	20.00	19.17	0.00	0.336	0.159	1.000	1.211	0.41	0.19
	LTE 26/5	QPSK15M	Top Side	0cm	26965	36	0	Ant0	DSI-2	1	-	20.00	19.17	0.02	0.228	0.111	1.000	1.211	0.28	0.13
	LTE 26/5	QPSK15M	Rear Face	0cm	26765	1	0	Ant0	DSI-2	1	-	20.00	19.07	-0.02	0.389	0.205	1.000	1.239	0.48	0.25
	LTE 26/5	QPSK15M	Rear Face	0cm	26865	1	0	Ant0	DSI-2	1	-	20.00	19.29	0.05	0.392	0.198	1.000	1.178	0.46	0.23
	LTE 30	QPSK10M	Rear Face	0cm	27710	1	0	Ant0	DSI-1	1	-	17.50	16.64	0.01	0.685	0.280	1.000	1.219	0.84	0.34
	LTE 30	QPSK10M	Left Side	0cm	27710	1	0	Ant0	DSI-0	1	-	25.50	24.36	-0.01	0.364	0.190	1.000	1.300	0.47	0.25
	LTE 30	QPSK10M	Right Side	0cm	27710	1	0	Ant0	DSI-0	1	-	25.50	24.36	0.00	0.000	0.000	1.000	1.300	0.00	0.00
	LTE 30	QPSK10M	Top Side	0cm	27710	1	0	Ant0	DSI-1	1	-	17.50	16.64	0.00	0.408	0.176	1.000	1.219	0.50	0.22
	LTE 30	QPSK10M	Bottom Side	0cm	27710	1	0	Ant0	DSI-0	1	-	25.50	24.36	0.00	0.000	0.000	1.000	1.300	0.00	0.00
	LTE 30	QPSK10M	Rear Face	0cm	27710	25	0	Ant0	DSI-1	1	-	17.50	16.59	-0.06	0.462	0.203	1.000	1.233	0.57	0.25
	LTE 30	QPSK10M	Left Side	0cm	27710	25	0	Ant0	DSI-0	1	-	24.50	23.65	-0.01	0.305	0.158	1.000	1.216	0.37	0.19
	LTE 30	QPSK10M	Right Side	0cm	27710	25	0	Ant0	DSI-0	1	-	24.50	23.65	0.05	0.038	0.010	1.000	1.216	0.05	0.01
	LTE 30	QPSK10M	Top Side	0cm	27710	25	0	Ant0	DSI-1	1	-	17.50	16.59	0.01	0.328	0.141	1.000	1.233	0.40	0.17
	LTE 30	QPSK10M	Bottom Side	0cm	27710	25	0	Ant0	DSI-0	1	-	24.50	23.65	0.00	0.000	0.000	1.000	1.216	0.00	0.00
	LTE 30	QPSK10M	Rear Face	0cm	27710	50	0	Ant0	DSI-1	1	-	17.50	16.43	0.00	0.494	0.213	1.000	1.279	0.63	0.27
	LTE 30	QPSK10M	Rear Face	2.9cm	27710	1	0	Ant0	DSI-0	1	-	25.50	24.36	0.00	0.119	0.073	1.000	1.300	0.16	0.10
	LTE 30	QPSK10M	Top Side	2.9cm	27710	1	0	Ant0	DSI-0	1	-	25.50	24.36	0.03	0.117	0.067	1.000	1.300	0.15	0.09
	LTE 30	QPSK10M	Rear Face	2.9cm	27710	25	0	Ant0	DSI-0	1	-	24.50	23.65	0.02	0.102	0.062	1.000	1.216	0.12	0.08
	LTE 30	QPSK10M	Top Side	2.9cm	27710	25	0	Ant0	DSI-0	1	-	24.50	23.65	0.02	0.091	0.053	1.000	1.216	0.11	0.06
	LTE 30	QPSK10M	Rear Face	0cm	27710	1	0	Ant0	DSI-2	1	-	13.50	12.73	-0.02	0.392	0.157	1.000	1.194	0.47	0.19
	LTE 30	QPSK10M	Top Side	0cm	27710	1	0	Ant0	DSI-2	1	-	13.50	12.73	0.01	0.214	0.094	1.000	1.194	0.26	0.11
	LTE 30	QPSK10M	Rear Face	0cm	27710	25	0	Ant0	DSI-2	1	-	13.50	12.58	-0.01	0.286	0.117	1.000	1.236	0.35	0.15
	LTE 30	QPSK10M	Top Side	0cm	27710	25	0	Ant0	DSI-2	1	-	13.50	12.58	0.00	0.173	0.076	1.000	1.236	0.21	0.09
P08	LTE 30	QPSK10M	Rear Face	0cm	27710	1	24	Ant2	DSI-1	1	-	18.00	17.35	0.00	0.766	0.351	1.000	1.161	0.89	0.41
	LTE 30	QPSK10M	Left Side	0cm	27710	1	24	Ant2	DSI-0	1	-	25.50	24.71	0.00	0.000	0.000	1.000	1.199	0.00	0.00
	LTE 30	QPSK10M	Right Side	0cm	27710	1	24	Ant2	DSI-1	1	-	18.00	17.35	0.01	0.552	0.250	1.000	1.161	0.64	0.29
	LTE 30	QPSK10M	Top Side	0cm	27710	1	24	Ant2	DSI-0	1	-	25.50	24.71	0.01	0.037	0.010	1.000	1.199	0.04	0.01
	LTE 30	QPSK10M	Bottom Side	0cm	27710	1	24	Ant2	DSI-0	1	-	25.50	24.71	0.00	0.000	0.000	1.000	1.199	0.00	0.00
	LTE 30	QPSK10M	Rear Face	0cm	27710	25	25	Ant2	DSI-1	1	-	18.00	17.17	0.00	0.652	0.289	1.000	1.211	0.79	0.35
	LTE 30	QPSK10M	Left Side	0cm	27710	25	25	Ant2	DSI-0	1	-	24.50	23.91	0.00	0.000	0.000	1.000	1.146	0.00	0.00
	LTE 30	QPSK10M	Right Side	0cm	27710	25	25	Ant2	DSI-1	1	-	18.00	17.17	0.00	0.456	0.211	1.000	1.211	0.55	0.26
	LTE 30	QPSK10M	Top Side	0cm	27710	25	25	Ant2	DSI-0	1	-	24.50	23.91	0.00	0.000	0.000	1.000	1.146	0.00	0.00
	LTE 30	QPSK10M	Bottom Side	0cm	27710	25	25	Ant2	DSI-0	1	-	24.50	23.91	0.00	0.000	0.000	1.000	1.146	0.00	0.00
	LTE 30	QPSK10M	Rear Face	0cm	27710	50	0	Ant2	DSI-1	1	-	18.00								



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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	LTE 38	QPSK20M	Rear Face	0cm	38000	50	0	Ant0	DSI-2	1	62.9	15.50	14.74	0.04	0.255	0.097	1.006	1.191	0.31	0.12
	LTE 38	QPSK20M	Top Side	0cm	38000	50	0	Ant0	DSI-2	1	62.9	15.50	14.74	0.01	0.251	0.091	1.006	1.191	0.30	0.11
	LTE 38	QPSK20M	Rear Face	0cm	37850	1	0	Ant0	DSI-2	1	62.9	15.50	14.63	0.00	0.315	0.121	1.006	1.222	0.39	0.15
	LTE 38	QPSK20M	Rear Face	0cm	38150	1	0	Ant0	DSI-2	1	62.9	15.50	14.29	-0.01	0.360	0.126	1.006	1.321	0.48	0.17
	LTE 41	QPSK20M	Rear Face	0cm	40620	1	0	Ant0	DSI-1	1	62.9	20.50	19.79	-0.01	1.070	0.380	1.006	1.178	1.27	0.45
	LTE 41	QPSK20M	Left Side	0cm	40620	1	0	Ant0	DSI-0	1	62.9	24.50	23.65	0.00	0.296	0.151	1.006	1.216	0.36	0.19
	LTE 41	QPSK20M	Right Side	0cm	40620	1	0	Ant0	DSI-0	1	62.9	24.50	23.65	0.03	0.039	0.012	1.006	1.216	0.05	0.02
	LTE 41	QPSK20M	Top Side	0cm	40620	1	0	Ant0	DSI-1	1	62.9	20.50	19.79	0.00	0.872	0.328	1.006	1.178	1.03	0.39
	LTE 41	QPSK20M	Bottom Side	0cm	40620	1	0	Ant0	DSI-0	1	62.9	24.50	23.65	0.00	0.000	0.000	1.006	1.216	0.00	0.00
	LTE 41	QPSK20M	Rear Face	0cm	40620	50	0	Ant0	DSI-1	1	62.9	20.50	19.71	-0.01	0.733	0.291	1.006	1.199	0.89	0.35
	LTE 41	QPSK20M	Left Side	0cm	40620	50	0	Ant0	DSI-0	1	62.9	24.50	23.64	-0.01	0.235	0.121	1.006	1.219	0.29	0.15
	LTE 41	QPSK20M	Right Side	0cm	40620	50	0	Ant0	DSI-0	1	62.9	24.50	23.64	0.00	0.000	0.000	1.006	1.219	0.00	0.00
	LTE 41	QPSK20M	Top Side	0cm	40620	50	0	Ant0	DSI-1	1	62.9	20.50	19.71	0.01	0.683	0.270	1.006	1.199	0.82	0.33
	LTE 41	QPSK20M	Bottom Side	0cm	40620	50	0	Ant0	DSI-0	1	62.9	24.50	23.64	0.00	0.000	0.000	1.006	1.219	0.00	0.00
	LTE 41	QPSK20M	Rear Face	0cm	39750	1	0	Ant0	DSI-1	1	62.9	20.50	19.66	0.00	0.710	0.254	1.006	1.213	0.87	0.31
	LTE 41	QPSK20M	Rear Face	0cm	40185	1	0	Ant0	DSI-1	1	62.9	20.50	19.61	0.05	0.949	0.344	1.006	1.227	1.17	0.43
	LTE 41	QPSK20M	Rear Face	0cm	41055	1	0	Ant0	DSI-1	1	62.9	20.50	19.68	0.03	0.942	0.346	1.006	1.208	1.15	0.42
	LTE 41	QPSK20M	Rear Face	0cm	41490	1	0	Ant0	DSI-1	1	62.9	20.50	19.65	0.02	0.870	0.369	1.006	1.216	1.06	0.45
	LTE 41	QPSK20M	Top Side	0cm	39750	1	0	Ant0	DSI-1	1	62.9	20.50	19.66	0.02	0.548	0.223	1.006	1.213	0.67	0.27
	LTE 41	QPSK20M	Top Side	0cm	40185	1	0	Ant0	DSI-1	1	62.9	20.50	19.61	-0.01	0.782	0.286	1.006	1.227	0.97	0.35
	LTE 41	QPSK20M	Top Side	0cm	41055	1	0	Ant0	DSI-1	1	62.9	20.50	19.68	0.01	1.020	0.371	1.006	1.208	1.24	0.45
P10	LTE 41	QPSK20M	Top Side	0cm	41490	1	0	Ant0	DSI-1	1	62.9	20.50	19.65	0.00	1.050	0.401	1.006	1.216	1.29	0.49
	LTE 41	QPSK20M	Rear Face	0cm	39750	50	0	Ant0	DSI-1	1	62.9	20.50	19.57	0.00	0.608	0.247	1.006	1.239	0.76	0.31
	LTE 41	QPSK20M	Rear Face	0cm	40185	50	0	Ant0	DSI-1	1	62.9	20.50	19.54	0.01	0.760	0.276	1.006	1.247	0.95	0.35
	LTE 41	QPSK20M	Rear Face	0cm	41055	50	0	Ant0	DSI-1	1	62.9	20.50	19.67	-0.01	0.852	0.297	1.006	1.211	1.04	0.36
	LTE 41	QPSK20M	Rear Face	0cm	41490	50	0	Ant0	DSI-1	1	62.9	20.50	19.45	-0.02	0.883	0.315	1.006	1.274	1.13	0.40
	LTE 41	QPSK20M	Top Side	0cm	39750	50	0	Ant0	DSI-1	1	62.9	20.50	19.57	0.00	0.562	0.224	1.006	1.239	0.70	0.28
	LTE 41	QPSK20M	Top Side	0cm	40185	50	0	Ant0	DSI-1	1	62.9	20.50	19.54	0.01	0.591	0.234	1.006	1.247	0.74	0.29
	LTE 41	QPSK20M	Top Side	0cm	41055	50	0	Ant0	DSI-1	1	62.9	20.50	19.67	0.01	0.848	0.307	1.006	1.211	1.03	0.37
	LTE 41	QPSK20M	Top Side	0cm	41490	50	0	Ant0	DSI-1	1	62.9	20.50	19.45	0.02	0.949	0.335	1.006	1.274	1.22	0.43
	LTE 41	QPSK20M	Rear Face	0cm	40620	100	0	Ant0	DSI-1	1	62.9	20.50	19.65	-0.10	0.766	0.272	1.006	1.216	0.94	0.33
	LTE 41	QPSK20M	Top Side	0cm	40620	100	0	Ant0	DSI-1	1	62.9	20.50	19.65	-0.01	0.694	0.271	1.006	1.216	0.85	0.33
	LTE 41	QPSK20M	Rear Face	2.9cm	40620	1	0	Ant0	DSI-0	1	62.9	24.50	23.65	0.02	0.081	0.047	1.006	1.216	0.10	0.06
	LTE 41	QPSK20M	Top Side	2.9cm	40620	1	0	Ant0	DSI-0	1	62.9	24.50	23.65	0.06	0.130	0.074	1.006	1.216	0.16	0.09
	LTE 41	QPSK20M	Rear Face	2.9cm	40620	50	0	Ant0	DSI-0	1	62.9	24.50	23.64	0.08	0.067	0.039	1.006	1.219	0.08	0.05
	LTE 41	QPSK20M	Top Side	2.9cm	40620	50	0	Ant0	DSI-0	1	62.9	24.50	23.64	-0.01	0.107	0.060	1.006	1.219	0.13	0.07
	LTE 41	QPSK20M	Rear Face	0cm	40620	1	0	Ant0	DSI-2	1	62.9	16.00	15.14	0.00	0.352	0.125	1.006	1.219	0.43	0.15
	LTE 41	QPSK20M	Top Side	0cm	40620	1	0	Ant0	DSI-2	1	62.9	16.00	15.14	0.00	0.307	0.123	1.006	1.219	0.38	0.15
	LTE 41	QPSK20M	Rear Face	0cm	40620	50	0	Ant0	DSI-2	1	62.9	16.00	15.07	0.00	0.252	0.101	1.006	1.239	0.31	0.13
	LTE 41	QPSK20M	Top Side	0cm	40620	50	0	Ant0	DSI-2	1	62.9	16.00	15.07	0.01	0.276	0.099	1.006	1.239	0.34	0.12
	LTE 41	QPSK20M	Rear Face	0cm	39750	1	0	Ant0	DSI-2	1	62.9	16.00	15.02	-0.01	0.329	0.121	1.006	1.253	0.42	0.15
	LTE 41	QPSK20M	Rear Face	0cm	40185	1	0	Ant0	DSI-2	1	62.9	16.00	14.95	0.02	0.338	0.121	1.006	1.274	0.43	0.16
	LTE 41	QPSK20M	Rear Face	0cm	41055	1	0	Ant0	DSI-2	1	62.9	16.00	15.99	0.01	0.390	0.136	1.006	1.002	0.39	0.14
	LTE 41	QPSK20M	Rear Face	0cm	41490	1	0	Ant0	DSI-2	1	62.9	16.00	15.90	-0.02	0.447	0.156	1.006	1.023	0.46	0.16
	LTE 42 Part27Q	QPSK20M	Rear Face	0cm	42190	1	0	Ant1	DSI-1	1	62.9	19.50	18.69	0.00	0.977	0.431	1.006	1.205	1.18	0.52
	LTE 42 Part27Q	QPSK20M	Left Side	0cm	42190	1	0	Ant1	DSI-1	1	62.9	19.50	18.69	0.05	0.723	0.297	1.006	1.205	0.88	0.36
	LTE 42 Part27Q	QPSK20M	Right Side	0cm	42190	1	0	Ant1	DSI-0	1	62.9	24.50	23.64	-0.06	0.047	0.014	1.006	1.219	0.06	0.02
	LTE 42 Part27Q	QPSK20M	Top Side	0cm	42190	1	0	Ant1	DSI-1	1	62.9	19.50	18.69	0.01	0.501	0.214	1.006	1.205	0.61	0.26
	LTE 42 Part27Q	QPSK20M	Bottom Side	0cm	42190	1	0	Ant1	DSI-0	1	62.9	24.50	23.64	-0.01	0.082	0.034	1.006	1.219	0.10	0.04
	LTE 42 Part27Q	QPSK20M	Rear Face	0cm	42190	50	25	Ant1	DSI-1	1	62.9	19.50	18.68	0.00	0.860	0.364	1.006	1.208	1.05	0.44
	LTE 42 Part27Q	QPSK20M	Left Side	0cm	42190	50	25	Ant1	DSI-1	1	62.9	19.50	18.68	0.00	0.606	0.247	1.006	1.208	0.74	0.30
	LTE 42 Part27Q	QPSK20M	Right Side	0cm	42190	50	25	Ant1	DSI-0	1	62.9	23.50	22.69	-0.06	0.041	0.018	1.006	1.205	0.05	0.02
	LTE 42 Part27Q	QPSK20M	Top Side	0cm	42190	50	25	Ant1	DSI-1	1	62.9	19.50	18.68	0.03	0.408	0.177	1.006	1.208	0.50	0.22
	LTE 42 Part27Q	QPSK20M	Bottom Side	0cm	42190	50	25	Ant1	DSI-0	1	62.9	23.50	22.69	-0.01	0.065	0.027	1.006	1.205	0.08	0.03
	LTE 42 Part27Q	QPSK20M	Rear Face	0cm	42590	1	0	Ant1	DSI-1	1	62.9	19.50	18.64	0.01	0.957	0.420	1.006	1.219	1.17	0.52
	LTE 42 Part27Q	QPSK20M	Rear Face	0cm	42990	1	0	Ant1	DSI-1	1	62.9	19.50	18.56	-0.01	0.917	0.402	1.006	1.242	1.15	0.50
	LTE 42 Part27Q	QPSK20M	Left Side	0cm	42990	1	0	Ant1	DSI-1	1	62.9	19.50	18.64	0.01	0.726	0.300	1.006	1.219	0.89	0.37
	LTE 42 Part27Q	QPSK20M	Left Side	0cm	42990	1	0	Ant1	DSI-1	1	62.9	19.50	18.56	-0.06	0.750	0.285	1.006	1.242	0.94	0.36
	LTE 42 Part27Q	QPSK20M	Rear Face	0cm	42590	50	25	Ant1	DSI-1	1	62.9	19.50	18.52	0.02	0.816	0.326	1.006	1.253	1.03	0.41
	LTE 42 Part27Q	QPSK20M	Rear Face	0cm	42990	50	25	Ant1	DSI-1	1	62.9	19.50	18.47	0.01	0.920	0.414	1.006	1.268	1.17	0.53
	LTE 42 Part27Q	QPSK20M	Rear Face	0cm	42190	100	0	Ant1	DSI-1	1	62.9	19.50	18.58	0.01	0.879	0.349	1.006	1.236	1.09	0.43
	LTE 42 Part27Q	QPSK20M	Left Side	0cm	42190	100	0	Ant1	DSI-1	1	62.9	19.50	18.58	-0.02	0.661	0.244	1.006	1.236	0.82	0.30
	LTE 42 Part27Q	QPSK20M	Rear Face	2.9cm	42190	1	0	Ant1	DSI-0	1	62.9	24.50	23.64	0.00	0.163	0.083	1.006	1.219	0.20	0.10
	LTE 42 Part27Q	QPSK20M	Left Side	1.9cm	42190	1	0	Ant1	DSI-0	1	62.9	24.50	23.64	0.00	0.258	0.132	1.006	1.219	0.32	0.16
	LTE 42 Part27Q	QPSK20M	Top Side	2.9cm	42190	1	0	Ant1	DSI-0	1	62.9	24.50	23.64	0.08	0.228	0.120	1.006	1.219	0.28	0.15
	LTE 42 Part27Q	QPSK20M	Rear Face</																	



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	LTE 42_Part96	QPSK20M	Left Side	1.9cm	43490	50	25	Ant1	DSI-0	1	62.9	23.50	22.79	0.01	0.199	0.100	1.006	1.178	0.24	0.12
	LTE 42_Part96	QPSK20M	Top Side	2.9cm	43490	50	25	Ant1	DSI-0	1	62.9	23.50	22.79	0.03	0.209	0.107	1.006	1.178	0.25	0.13
	LTE 42_Part96	QPSK20M	Rear Face	0cm	43490	1	0	Ant1	DSI-2	1	62.9	15.50	14.77	0.13	0.404	0.186	1.006	1.183	0.48	0.22
	LTE 42_Part96	QPSK20M	Left Side	0cm	43490	1	0	Ant1	DSI-2	1	62.9	15.50	14.77	-0.06	0.314	0.126	1.006	1.183	0.37	0.15
	LTE 42_Part96	QPSK20M	Top Side	0cm	43490	1	0	Ant1	DSI-2	1	62.9	15.50	14.77	0.01	0.209	0.089	1.006	1.183	0.25	0.11
	LTE 42_Part96	QPSK20M	Rear Face	0cm	43490	50	25	Ant1	DSI-2	1	62.9	15.50	14.73	0.01	0.361	0.141	1.006	1.194	0.43	0.17
	LTE 42_Part96	QPSK20M	Left Side	0cm	43490	50	25	Ant1	DSI-2	1	62.9	15.50	14.73	0.00	0.285	0.106	1.006	1.194	0.34	0.13
	LTE 42_Part96	QPSK20M	Top Side	0cm	43490	50	25	Ant1	DSI-2	1	62.9	15.50	14.73	0.00	0.174	0.075	1.006	1.194	0.21	0.09
	LTE 42_Part96	QPSK20M	Rear Face	0cm	43190	1	0	Ant1	DSI-2	1	62.9	15.50	14.76	0.02	0.402	0.174	1.006	1.186	0.48	0.21
	LTE 42_Part96	QPSK20M	Rear Face	0cm	43340	1	0	Ant1	DSI-2	1	62.9	15.50	14.61	0.01	0.415	0.181	1.006	1.227	0.51	0.22
	LTE 48	QPSK20M	Rear Face	0cm	56315	1	50	Ant1	DSI-1	1	62.9	21.00	20.41	0.00	0.948	0.433	1.006	1.146	1.09	0.50
	LTE 48	QPSK20M	Left Side	0cm	56315	1	50	Ant1	DSI-1	1	62.9	21.00	20.41	-0.03	1.010	0.398	1.006	1.146	1.16	0.46
	LTE 48	QPSK20M	Right Side	0cm	56315	1	50	Ant1	DSI-0	1	62.9	24.50	24.17	-0.02	0.085	0.036	1.006	1.079	0.09	0.04
	LTE 48	QPSK20M	Top Side	0cm	56315	1	50	Ant1	DSI-1	1	62.9	21.00	20.41	0.00	0.734	0.301	1.006	1.146	0.85	0.35
	LTE 48	QPSK20M	Bottom Side	0cm	56315	1	50	Ant1	DSI-0	1	62.9	24.50	24.17	0.00	0.000	0.000	1.006	1.079	0.00	0.00
	LTE 48	QPSK20M	Rear Face	0cm	56315	50	25	Ant1	DSI-1	1	62.9	21.00	20.32	0.00	0.833	0.330	1.006	1.169	0.98	0.39
	LTE 48	QPSK20M	Left Side	0cm	56315	50	25	Ant1	DSI-1	1	62.9	21.00	20.32	0.01	0.822	0.342	1.006	1.169	0.97	0.40
	LTE 48	QPSK20M	Right Side	0cm	56315	50	25	Ant1	DSI-0	1	62.9	23.50	23.31	-0.01	0.065	0.028	1.006	1.045	0.07	0.03
	LTE 48	QPSK20M	Top Side	0cm	56315	50	25	Ant1	DSI-1	1	62.9	21.00	20.32	0.01	0.594	0.247	1.006	1.169	0.70	0.29
	LTE 48	QPSK20M	Bottom Side	0cm	56315	50	25	Ant1	DSI-0	1	62.9	23.50	23.31	0.00	0.000	0.000	1.006	1.045	0.00	0.00
P12	LTE 48	QPSK20M	Rear Face	0cm	55340	1	50	Ant1	DSI-1	1	62.9	21.00	20.00	0.15	0.977	0.439	1.006	1.259	1.24	0.56
	LTE 48	QPSK20M	Rear Face	0cm	55665	1	50	Ant1	DSI-1	1	62.9	21.00	20.33	0.01	0.948	0.422	1.006	1.167	1.11	0.50
	LTE 48	QPSK20M	Rear Face	0cm	56640	1	50	Ant1	DSI-1	1	62.9	21.00	20.25	0.02	0.949	0.395	1.006	1.189	1.13	0.47
	LTE 48	QPSK20M	Left Side	0cm	55340	1	50	Ant1	DSI-1	1	62.9	21.00	20.00	-0.02	0.906	0.372	1.006	1.259	1.15	0.47
	LTE 48	QPSK20M	Left Side	0cm	55665	1	50	Ant1	DSI-1	1	62.9	21.00	20.33	0.01	0.881	0.357	1.006	1.167	1.03	0.42
	LTE 48	QPSK20M	Left Side	0cm	56640	1	50	Ant1	DSI-1	1	62.9	21.00	20.25	-0.01	0.966	0.388	1.006	1.189	1.16	0.46
	LTE 48	QPSK20M	Top Side	0cm	55340	1	50	Ant1	DSI-1	1	62.9	21.00	20.00	0.00	0.651	0.282	1.006	1.259	0.82	0.36
	LTE 48	QPSK20M	Top Side	0cm	55665	1	50	Ant1	DSI-1	1	62.9	21.00	20.33	0.00	0.661	0.276	1.006	1.167	0.78	0.32
	LTE 48	QPSK20M	Top Side	0cm	56640	1	50	Ant1	DSI-1	1	62.9	21.00	20.25	0.00	0.703	0.281	1.006	1.189	0.84	0.34
	LTE 48	QPSK20M	Rear Face	0cm	55340	50	25	Ant1	DSI-1	1	62.9	21.00	20.04	0.01	0.662	0.296	1.006	1.247	0.83	0.37
	LTE 48	QPSK20M	Rear Face	0cm	55665	50	25	Ant1	DSI-1	1	62.9	21.00	20.18	-0.01	0.706	0.304	1.006	1.208	0.86	0.37
	LTE 48	QPSK20M	Rear Face	0cm	56640	50	25	Ant1	DSI-1	1	62.9	21.00	20.29	-0.06	0.692	0.296	1.006	1.178	0.82	0.35
	LTE 48	QPSK20M	Left Side	0cm	55340	50	25	Ant1	DSI-1	1	62.9	21.00	20.04	0.02	0.909	0.368	1.006	1.247	1.14	0.46
	LTE 48	QPSK20M	Left Side	0cm	55665	50	25	Ant1	DSI-1	1	62.9	21.00	20.18	0.04	0.847	0.361	1.006	1.208	1.03	0.44
	LTE 48	QPSK20M	Left Side	0cm	56640	50	25	Ant1	DSI-1	1	62.9	21.00	20.29	-0.03	0.951	0.376	1.006	1.178	1.13	0.45
	LTE 48	QPSK20M	Rear Face	0cm	56640	100	0	Ant1	DSI-1	1	62.9	21.00	20.20	0.02	0.718	0.301	1.006	1.202	0.87	0.36
	LTE 48	QPSK20M	Left Side	0cm	56640	100	0	Ant1	DSI-1	1	62.9	21.00	20.20	0.01	0.864	0.357	1.006	1.202	1.05	0.43
	LTE 48	QPSK20M	Top Side	0cm	56640	100	0	Ant1	DSI-1	1	62.9	21.00	20.20	0.03	0.664	0.252	1.006	1.202	0.80	0.31
	LTE 48	QPSK20M	Rear Face	2.9cm	56315	1	50	Ant1	DSI-0	1	62.9	24.50	24.17	0.00	0.163	0.086	1.006	1.079	0.18	0.09
	LTE 48	QPSK20M	Left Side	1.9cm	56315	1	50	Ant1	DSI-0	1	62.9	24.50	24.17	0.00	0.197	0.099	1.006	1.079	0.21	0.11
	LTE 48	QPSK20M	Top Side	2.9cm	56315	1	50	Ant1	DSI-0	1	62.9	24.50	24.17	0.01	0.223	0.114	1.006	1.079	0.24	0.12
	LTE 48	QPSK20M	Rear Face	2.9cm	56315	50	25	Ant1	DSI-0	1	62.9	23.50	23.31	0.01	0.136	0.071	1.006	1.045	0.14	0.08
	LTE 48	QPSK20M	Left Side	1.9cm	56315	50	25	Ant1	DSI-0	1	62.9	23.50	23.31	-0.01	0.166	0.083	1.006	1.045	0.18	0.09
	LTE 48	QPSK20M	Top Side	2.9cm	56315	50	25	Ant1	DSI-0	1	62.9	23.50	23.31	-0.03	0.181	0.092	1.006	1.045	0.19	0.10
	LTE 48	QPSK20M	Rear Face	0cm	56315	1	50	Ant1	DSI-2	1	62.9	17.00	16.49	0.02	0.348	0.166	1.006	1.125	0.39	0.19
	LTE 48	QPSK20M	Left Side	0cm	56315	1	50	Ant1	DSI-2	1	62.9	17.00	16.49	0.01	0.322	0.135	1.006	1.125	0.36	0.15
	LTE 48	QPSK20M	Top Side	0cm	56315	1	50	Ant1	DSI-2	1	62.9	17.00	16.49	0.00	0.211	0.101	1.006	1.125	0.24	0.11
	LTE 48	QPSK20M	Rear Face	0cm	56315	50	25	Ant1	DSI-2	1	62.9	17.00	16.46	0.00	0.216	0.133	1.006	1.132	0.25	0.15
	LTE 48	QPSK20M	Left Side	0cm	56315	50	25	Ant1	DSI-2	1	62.9	17.00	16.46	0.01	0.267	0.098	1.006	1.132	0.30	0.11
	LTE 48	QPSK20M	Top Side	0cm	56315	50	25	Ant1	DSI-2	1	62.9	17.00	16.46	0.01	0.170	0.075	1.006	1.132	0.19	0.09
	LTE 48	QPSK20M	Rear Face	0cm	55340	1	50	Ant1	DSI-2	1	62.9	17.00	16.08	0.02	0.357	0.156	1.006	1.236	0.44	0.19
	LTE 48	QPSK20M	Rear Face	0cm	55665	1	50	Ant1	DSI-2	1	62.9	17.00	16.42	0.01	0.378	0.162	1.006	1.143	0.44	0.19
	LTE 48	QPSK20M	Rear Face	0cm	56640	1	50	Ant1	DSI-2	1	62.9	17.00	16.40	0.01	0.351	0.154	1.006	1.148	0.41	0.18
	LTE 66/4	QPSK20M	Rear Face	0cm	132072	1	50	Ant0	DSI-1	1	-	16.50	15.92	-0.04	0.932	0.451	1.000	1.143	1.07	0.52
	LTE 66/4	QPSK20M	Left Side	0cm	132072	1	50	Ant0	DSI-0	1	-	25.50	25.24	0.05	0.136	0.073	1.000	1.062	0.14	0.08
	LTE 66/4	QPSK20M	Right Side	0cm	132072	1	50	Ant0	DSI-0	1	-	25.50	25.24	0.00	0.000	0.000	1.000	1.062	0.00	0.00
	LTE 66/4	QPSK20M	Top Side	0cm	132072	1	50	Ant0	DSI-1	1	-	16.50	15.92	0.01	0.700	0.327	1.000	1.143	0.80	0.37
	LTE 66/4	QPSK20M	Bottom Side	0cm	132072	1	50	Ant0	DSI-0	1	-	25.50	25.24	0.00	0.000	0.000	1.000	1.062	0.00	0.00
	LTE 66/4	QPSK20M	Rear Face	0cm	132072	50	25	Ant0	DSI-1	1	-	16.50	15.86	0.03	0.715	0.334	1.000	1.159	0.83	0.39
	LTE 66/4	QPSK20M	Left Side	0cm	132072	50	25	Ant0	DSI-0	1	-	24.50	24.29	-0.01	0.111	0.060	1.000	1.050	0.12	0.06
	LTE 66/4	QPSK20M	Right Side	0cm	132072	50	25	Ant0	DSI-0	1	-	24.50	24.29	0.00	0.000	0.000	1.000	1.050	0.00	0.00
	LTE 66/4	QPSK20M	Top Side	0cm	132072	50	25	Ant0	DSI-1	1	-	16.50	15.86	0.08	0.576	0.269	1.000	1.159	0.67	0.31
	LTE 66/4	QPSK20M	Bottom Side	0cm	132072	50	25	Ant0	DSI-0	1	-	24.50	24.29	0.00	0.000	0.000	1.000	1.050	0.00	0.00
P13	LTE 66/4	QPSK20M	Rear Face	0cm	132322	1	50	Ant0	DSI-1	1	-	16.50	15.86	0.00	1.110	0.537	1.000	1.159	1.29	0.62
	LTE 66/4	QPSK20M	Rear Face	0cm	132572	1	50	Ant0	DSI-1	1	-	16.50	15.83	0.05	1.090	0.534	1.000	1.167	1.27	0.62
	LTE 66/4	QPSK20M	Top Side	0cm	1323															



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	LTE 66/4	QPSK20M	Rear Face	0cm	132072	1	0	Ant2	DSI-2	1	-	22.50	22.03	-0.01	0.408	0.210	1.000	1.114	0.46	0.23
	LTE 66/4	QPSK20M	Right Side	0cm	132072	1	0	Ant2	DSI-2	1	-	22.50	22.03	-0.01	0.160	0.084	1.000	1.114	0.18	0.09
	LTE 66/4	QPSK20M	Rear Face	0cm	132072	50	0	Ant2	DSI-2	1	-	22.50	21.98	0.02	0.306	0.157	1.000	1.127	0.35	0.18
	LTE 66/4	QPSK20M	Right Side	0cm	132072	50	0	Ant2	DSI-2	1	-	22.50	21.98	0.02	0.122	0.064	1.000	1.127	0.14	0.07
	LTE 66/4	QPSK20M	Rear Face	0cm	132322	1	0	Ant2	DSI-2	1	-	22.50	21.85	0.00	0.373	0.206	1.000	1.161	0.43	0.24
	LTE 66/4	QPSK20M	Rear Face	0cm	132572	1	0	Ant2	DSI-2	1	-	22.50	21.81	0.05	0.453	0.237	1.000	1.172	0.53	0.28
	LTE 71	QPSK20M	Rear Face	0cm	133322	1	0	Ant0	DSI-1	1	-	25.50	24.07	0.02	0.562	0.255	1.000	1.390	0.78	0.36
	LTE 71	QPSK20M	Left Side	0cm	133322	1	0	Ant0	DSI-0	1	-	25.50	24.07	-0.01	0.054	0.026	1.000	1.390	0.08	0.04
	LTE 71	QPSK20M	Right Side	0cm	133322	1	0	Ant0	DSI-0	1	-	25.50	24.07	0.00	0.000	0.000	1.000	1.390	0.00	0.00
	LTE 71	QPSK20M	Top Side	0cm	133322	1	0	Ant0	DSI-1	1	-	25.50	24.07	-0.06	0.413	0.233	1.000	1.390	0.57	0.32
	LTE 71	QPSK20M	Bottom Side	0cm	133322	1	0	Ant0	DSI-1	1	-	25.50	24.07	0.00	0.000	0.000	1.000	1.390	0.00	0.00
	LTE 71	QPSK20M	Rear Face	0cm	133322	50	25	Ant0	DSI-1	1	-	24.50	23.06	0.02	0.401	0.185	1.000	1.393	0.56	0.28
	LTE 71	QPSK20M	Left Side	0cm	133322	50	25	Ant0	DSI-0	1	-	24.50	23.06	0.00	0.035	0.017	1.000	1.393	0.05	0.02
	LTE 71	QPSK20M	Right Side	0cm	133322	50	25	Ant0	DSI-0	1	-	24.50	23.06	0.00	0.000	0.000	1.000	1.393	0.00	0.00
	LTE 71	QPSK20M	Top Side	0cm	133322	50	25	Ant0	DSI-1	1	-	24.50	23.06	0.00	0.323	0.180	1.000	1.393	0.45	0.25
	LTE 71	QPSK20M	Bottom Side	0cm	133322	50	25	Ant0	DSI-0	1	-	24.50	23.06	0.00	0.000	0.000	1.000	1.393	0.00	0.00
P14	LTE 71	QPSK20M	Rear Face	0cm	133222	1	0	Ant0	DSI-1	1	-	25.50	24.04	0.00	0.634	0.289	1.000	1.400	0.89	0.40
	LTE 71	QPSK20M	Rear Face	0cm	133372	1	0	Ant0	DSI-1	1	-	25.50	24.02	0.02	0.537	0.243	1.000	1.406	0.76	0.34
	LTE 71	QPSK20M	Rear Face	0cm	133322	100	0	Ant0	DSI-1	1	-	25.50	24.02	0.00	0.407	0.184	1.000	1.406	0.57	0.26
	LTE 71	QPSK20M	Rear Face	2.9cm	133322	1	0	Ant0	DSI-0	1	-	25.50	24.07	0.00	0.000	0.000	1.000	1.390	0.00	0.00
	LTE 71	QPSK20M	Top Side	2.9cm	133322	1	0	Ant0	DSI-0	1	-	25.50	24.07	0.00	0.000	0.000	1.000	1.390	0.00	0.00
	LTE 71	QPSK20M	Rear Face	2.9cm	133322	50	25	Ant0	DSI-0	1	-	24.50	23.06	0.00	0.000	0.000	1.000	1.393	0.00	0.00
	LTE 71	QPSK20M	Top Side	2.9cm	133322	50	25	Ant0	DSI-0	1	-	24.50	23.06	0.00	0.000	0.000	1.000	1.393	0.00	0.00
	LTE 71	QPSK20M	Rear Face	0cm	133322	1	0	Ant0	DSI-2	1	-	23.00	21.56	-0.01	0.299	0.136	1.000	1.393	0.42	0.19
	LTE 71	QPSK20M	Top Side	0cm	133322	1	0	Ant0	DSI-2	1	-	23.00	21.56	0.00	0.251	0.127	1.000	1.393	0.35	0.18
	LTE 71	QPSK20M	Rear Face	0cm	133322	50	25	Ant0	DSI-2	1	-	23.00	21.52	0.03	0.262	0.101	1.000	1.406	0.37	0.14
	LTE 71	QPSK20M	Top Side	0cm	133322	50	25	Ant0	DSI-2	1	-	23.00	21.52	0.01	0.256	0.111	1.000	1.406	0.36	0.16
	LTE 71	QPSK20M	Rear Face	0cm	133222	1	0	Ant0	DSI-2	1	-	23.00	21.48	-0.01	0.334	0.105	1.000	1.419	0.47	0.15
	LTE 71	QPSK20M	Rear Face	0cm	133372	1	0	Ant0	DSI-2	1	-	23.00	21.44	0.00	0.312	0.092	1.000	1.432	0.45	0.13
P15	LTE 106	QPSK3M	Rear Face	0cm	134322	1	0	Ant0	DSI-1	1	-	24.50	23.49	0.00	1.000	0.488	1.000	1.262	1.26	0.62
	LTE 106	QPSK3M	Left Side	0cm	134322	1	0	Ant0	DSI-0	1	-	25.50	24.43	0.03	0.172	0.093	1.000	1.279	0.22	0.12
	LTE 106	QPSK3M	Right Side	0cm	134322	1	0	Ant0	DSI-0	1	-	25.50	24.43	0.05	0.054	0.035	1.000	1.279	0.07	0.05
	LTE 106	QPSK3M	Top Side	0cm	134322	1	0	Ant0	DSI-1	1	-	24.50	23.49	0.02	0.956	0.440	1.000	1.262	1.21	0.56
	LTE 106	QPSK3M	Bottom Side	0cm	134322	1	0	Ant0	DSI-0	1	-	25.50	24.43	0.00	0.000	0.000	1.000	1.279	0.00	0.00
	LTE 106	QPSK3M	Rear Face	0cm	134322	8	0	Ant0	DSI-1	1	-	24.50	23.38	0.00	0.904	0.366	1.000	1.294	1.17	0.47
	LTE 106	QPSK3M	Left Side	0cm	134322	8	0	Ant0	DSI-0	1	-	24.50	23.41	0.00	0.144	0.075	1.000	1.285	0.19	0.10
	LTE 106	QPSK3M	Right Side	0cm	134322	8	0	Ant0	DSI-0	1	-	24.50	23.41	0.00	0.000	0.000	1.000	1.285	0.00	0.00
	LTE 106	QPSK3M	Top Side	0cm	134322	8	0	Ant0	DSI-1	1	-	24.50	23.38	0.01	0.657	0.328	1.000	1.294	0.85	0.42
	LTE 106	QPSK3M	Bottom Side	0cm	134322	8	0	Ant0	DSI-0	1	-	24.50	23.41	0.00	0.000	0.000	1.000	1.285	0.00	0.00
	LTE 106	QPSK3M	Rear Face	0cm	134322	15	0	Ant0	DSI-1	1	-	24.50	23.35	-0.06	0.747	0.345	1.000	1.303	0.97	0.45
	LTE 106	QPSK3M	Top Side	0cm	134322	15	0	Ant0	DSI-1	1	-	24.50	23.35	-0.01	0.633	0.323	1.000	1.303	0.83	0.42
	LTE 106	QPSK3M	Rear Face	2.9cm	134322	1	0	Ant0	DSI-0	1	-	25.50	24.43	0.00	0.093	0.067	1.000	1.279	0.12	0.09
	LTE 106	QPSK3M	Top Side	2.9cm	134322	1	0	Ant0	DSI-0	1	-	25.50	24.43	0.00	0.000	0.000	1.000	1.279	0.00	0.00
	LTE 106	QPSK3M	Rear Face	2.9cm	134322	8	0	Ant0	DSI-0	1	-	24.50	23.41	0.05	0.074	0.053	1.000	1.285	0.10	0.07
	LTE 106	QPSK3M	Top Side	2.9cm	134322	8	0	Ant0	DSI-0	1	-	24.50	23.41	0.00	0.000	0.000	1.000	1.285	0.00	0.00
	LTE 106	QPSK3M	Rear Face	0cm	134322	1	0	Ant0	DSI-2	1	-	20.00	18.97	0.00	0.353	0.170	1.000	1.268	0.45	0.22
	LTE 106	QPSK3M	Top Side	0cm	134322	1	0	Ant0	DSI-2	1	-	20.00	18.97	0.01	0.286	0.140	1.000	1.268	0.36	0.18
	LTE 106	QPSK3M	Rear Face	0cm	134322	8	0	Ant0	DSI-2	1	-	20.00	18.91	0.06	0.341	0.149	1.000	1.285	0.44	0.19
	LTE 106	QPSK3M	Top Side	0cm	134322	8	0	Ant0	DSI-2	1	-	20.00	18.91	0.02	0.233	0.113	1.000	1.285	0.30	0.15
	NR n5	DFT-QPSK20M	Rear Face	0cm	167300	1	1	Ant0	DSI-1	1	-	24.00	22.90	-0.03	0.919	0.476	1.000	1.288	1.18	0.61
	NR n5	DFT-QPSK20M	Left Side	0cm	167300	1	1	Ant0	DSI-0	1	-	25.00	23.92	-0.03	0.252	0.126	1.000	1.282	0.32	0.16
	NR n5	DFT-QPSK20M	Right Side	0cm	167300	1	1	Ant0	DSI-0	1	-	25.00	23.92	0.00	0.000	0.000	1.000	1.282	0.00	0.00
	NR n5	DFT-QPSK20M	Top Side	0cm	167300	1	1	Ant0	DSI-1	1	-	24.00	22.90	0.01	0.612	0.302	1.000	1.288	0.79	0.39
	NR n5	DFT-QPSK20M	Bottom Side	0cm	167300	1	1	Ant0	DSI-0	1	-	25.00	23.92	0.00	0.000	0.000	1.000	1.282	0.00	0.00
	NR n5	DFT-QPSK20M	Rear Face	0cm	167300	50	28	Ant0	DSI-1	1	-	24.00	22.78	0.01	0.928	0.484	1.000	1.324	1.23	0.64
	NR n5	DFT-QPSK20M	Left Side	0cm	167300	50	28	Ant0	DSI-0	1	-	25.00	23.79	0.00	0.236	0.120	1.000	1.321	0.31	0.16
	NR n5	DFT-QPSK20M	Right Side	0cm	167300	50	28	Ant0	DSI-0	1	-	25.00	23.79	-0.06	0.028	0.010	1.000	1.321	0.04	0.01
	NR n5	DFT-QPSK20M	Top Side	0cm	167300	50	28	Ant0	DSI-1	1	-	24.00	22.78	0.00	0.554	0.282	1.000	1.324	0.73	0.37
	NR n5	DFT-QPSK20M	Bottom Side	0cm	167300	50	28	Ant0	DSI-0	1	-	25.00	23.79	0.00	0.000	0.000	1.000	1.321	0.00	0.00
P16	NR n5	DFT-QPSK20M	Rear Face	0cm	166800	1	1	Ant0	DSI-1	1	-	24.00	22.68	-0.01	0.937	0.478	1.000	1.355	1.27	0.65
	NR n5	DFT-QPSK20M	Rear Face	0cm	167800	1	1	Ant0	DSI-1	1	-	24.00	22.70	0.08	0.928	0.482	1.000	1.349	1.25	0.65
	NR n5	DFT-QPSK20M	Rear Face	0cm	166800	50	28	Ant0	DSI-1	1	-	24.00	22.74	-0.03	0.940	0.483	1.000	1.337	1.26	0.65
	NR n5	DFT-QPSK20M	Rear Face	0cm	167800	50	28	Ant0	DSI-1	1	-	24.00	22.62	0.02	0.913	0.465	1.000	1.374	1.26	0.64
	NR n5	DFT-QPSK20M	Rear Face	0cm	167300	100	0	Ant0	DSI-1	1	-	24.00	22.74	0.06	0.690	0.363	1.000	1.337	0.92	0.49
	NR n5	DFT-QPSK20M	Rear Face	2.9cm	167300	1	1	Ant0	DSI-0	1	-	25.00	23.92	0.02	0.095	0.067	1.000	1.282	0.12	0.09
	NR n5	DFT-QPSK20M	Top Side	2.9cm	167300	1	1	Ant0	DSI-0	1	-	25.00	23.92	0.00	0.000	0.000	1.000	1.282	0.00	0.00
	NR n5	DFT-QPSK20M	Rear Face	2.9cm	167300	50	28	Ant0	DSI-0	1	-	25.00	23.79							



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	NR n7	DFT-QPSK20M	Top Side	2.9cm	507000	50	28	Ant0	DSI-0	1	-	25.50	24.53	0.00	0.157	0.091	1.000	1.250	0.20	0.11
	NR n7	DFT-QPSK20M	Rear Face	0cm	507000	1	1	Ant0	DSI-2	1	-	13.50	12.65	-0.02	0.304	0.110	1.000	1.216	0.37	0.13
	NR n7	DFT-QPSK20M	Top Side	0cm	507000	1	1	Ant0	DSI-2	1	-	13.50	12.65	0.00	0.238	0.093	1.000	1.216	0.29	0.11
	NR n7	DFT-QPSK20M	Rear Face	0cm	507000	50	28	Ant0	DSI-2	1	-	13.50	12.54	0.01	0.291	0.105	1.000	1.247	0.36	0.13
	NR n7	DFT-QPSK20M	Top Side	0cm	507000	50	28	Ant0	DSI-2	1	-	13.50	12.54	0.01	0.240	0.096	1.000	1.247	0.30	0.12
	NR n7	DFT-QPSK20M	Rear Face	0cm	502000	1	1	Ant0	DSI-2	1	-	13.50	12.46	-0.01	0.323	0.117	1.000	1.271	0.41	0.15
	NR n7	DFT-QPSK20M	Rear Face	0cm	512000	1	1	Ant0	DSI-2	1	-	13.50	12.53	0.04	0.321	0.114	1.000	1.250	0.40	0.14
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	372000	1	1	Ant0	DSI-1	1	-	13.50	12.15	0.06	0.753	0.364	1.000	1.365	1.03	0.50
	NR n25/2	DFT-QPSK20M	Left Side	0cm	372000	1	1	Ant0	DSI-0	1	-	25.00	23.67	-0.04	0.105	0.056	1.000	1.358	0.14	0.08
	NR n25/2	DFT-QPSK20M	Right Side	0cm	372000	1	1	Ant0	DSI-0	1	-	25.00	23.67	0.06	0.151	0.090	1.000	1.358	0.21	0.12
	NR n25/2	DFT-QPSK20M	Top Side	0cm	372000	1	1	Ant0	DSI-1	1	-	13.50	12.15	0.02	0.796	0.361	1.000	1.365	1.09	0.49
	NR n25/2	DFT-QPSK20M	Bottom Side	0cm	372000	1	1	Ant0	DSI-0	1	-	25.00	23.67	0.00	0.000	0.000	1.000	1.358	0.00	0.00
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	372000	50	28	Ant0	DSI-1	1	-	13.50	12.02	-0.01	0.825	0.411	1.000	1.406	1.16	0.58
	NR n25/2	DFT-QPSK20M	Left Side	0cm	372000	50	28	Ant0	DSI-0	1	-	25.00	23.56	0.00	0.123	0.061	1.000	1.393	0.17	0.09
	NR n25/2	DFT-QPSK20M	Right Side	0cm	372000	50	28	Ant0	DSI-0	1	-	25.00	23.56	0.01	0.147	0.086	1.000	1.393	0.21	0.12
	NR n25/2	DFT-QPSK20M	Top Side	0cm	372000	50	28	Ant0	DSI-1	1	-	13.50	12.02	0.02	0.797	0.383	1.000	1.406	1.12	0.54
	NR n25/2	DFT-QPSK20M	Bottom Side	0cm	372000	50	28	Ant0	DSI-0	1	-	25.00	23.56	0.04	0.036	0.015	1.000	1.393	0.05	0.02
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	376500	1	1	Ant0	DSI-1	1	-	13.50	11.92	0.06	0.669	0.318	1.000	1.439	0.96	0.46
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	381000	1	1	Ant0	DSI-1	1	-	13.50	11.76	0.00	0.631	0.309	1.000	1.493	0.94	0.46
	NR n25/2	DFT-QPSK20M	Top Side	0cm	376500	1	1	Ant0	DSI-1	1	-	13.50	11.92	0.05	0.641	0.293	1.000	1.439	0.92	0.42
	NR n25/2	DFT-QPSK20M	Top Side	0cm	381000	1	1	Ant0	DSI-1	1	-	13.50	11.76	-0.10	0.567	0.265	1.000	1.493	0.85	0.40
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	376500	50	28	Ant0	DSI-1	1	-	13.50	11.79	0.00	0.790	0.393	1.000	1.483	1.17	0.58
P18	NR n25/2	DFT-QPSK20M	Rear Face	0cm	381000	50	28	Ant0	DSI-1	1	-	13.50	11.73	0.00	0.801	0.398	1.000	1.503	1.20	0.60
	NR n25/2	DFT-QPSK20M	Top Side	0cm	376500	50	28	Ant0	DSI-1	1	-	13.50	11.79	-0.16	0.591	0.271	1.000	1.483	0.88	0.40
	NR n25/2	DFT-QPSK20M	Top Side	0cm	381000	50	28	Ant0	DSI-1	1	-	13.50	11.73	0.02	0.520	0.243	1.000	1.503	0.78	0.37
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	372000	100	0	Ant0	DSI-1	1	-	13.50	11.66	0.01	0.559	0.273	1.000	1.528	0.85	0.42
	NR n25/2	DFT-QPSK20M	Top Side	0cm	372000	100	0	Ant0	DSI-1	1	-	13.50	11.66	0.00	0.593	0.271	1.000	1.528	0.91	0.41
	NR n25/2	DFT-QPSK20M	Rear Face	2.9cm	372000	1	1	Ant0	DSI-0	1	-	25.00	23.67	0.00	0.332	0.203	1.000	1.358	0.45	0.28
	NR n25/2	DFT-QPSK20M	Top Side	2.9cm	372000	1	1	Ant0	DSI-0	1	-	25.00	23.67	0.06	0.323	0.200	1.000	1.358	0.44	0.27
	NR n25/2	DFT-QPSK20M	Rear Face	2.9cm	372000	50	28	Ant0	DSI-0	1	-	25.00	23.56	0.03	0.298	0.182	1.000	1.393	0.42	0.25
	NR n25/2	DFT-QPSK20M	Top Side	2.9cm	372000	50	28	Ant0	DSI-0	1	-	25.00	23.56	0.00	0.288	0.178	1.000	1.393	0.40	0.25
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	372000	1	1	Ant0	DSI-2	1	-	9.00	7.74	0.01	0.286	0.137	1.000	1.337	0.38	0.18
	NR n25/2	DFT-QPSK20M	Top Side	0cm	372000	1	1	Ant0	DSI-2	1	-	9.00	7.74	-0.02	0.263	0.123	1.000	1.337	0.35	0.16
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	372000	50	28	Ant0	DSI-2	1	-	9.00	7.53	0.03	0.302	0.150	1.000	1.403	0.42	0.21
	NR n25/2	DFT-QPSK20M	Top Side	0cm	372000	50	28	Ant0	DSI-2	1	-	9.00	7.53	0.01	0.261	0.123	1.000	1.403	0.37	0.17
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	376500	50	28	Ant0	DSI-2	1	-	9.00	7.32	0.00	0.249	0.118	1.000	1.472	0.37	0.17
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	381000	50	28	Ant0	DSI-2	1	-	9.00	7.26	0.01	0.255	0.125	1.000	1.493	0.38	0.19
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	381000	1	1	Ant2	DSI-1	1	-	23.50	22.74	0.06	0.878	0.431	1.000	1.191	1.05	0.51
	NR n25/2	DFT-QPSK20M	Left Side	0cm	381000	1	1	Ant2	DSI-0	1	-	25.00	24.22	0.00	0.000	0.000	1.000	1.197	0.00	0.00
	NR n25/2	DFT-QPSK20M	Right Side	0cm	381000	1	1	Ant2	DSI-1	1	-	23.50	22.74	0.01	0.213	0.105	1.000	1.191	0.25	0.13
	NR n25/2	DFT-QPSK20M	Top Side	0cm	381000	1	1	Ant2	DSI-0	1	-	25.00	24.22	0.01	0.054	0.030	1.000	1.197	0.07	0.04
	NR n25/2	DFT-QPSK20M	Bottom Side	0cm	381000	1	1	Ant2	DSI-0	1	-	25.00	24.22	0.00	0.000	0.000	1.000	1.197	0.00	0.00
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	381000	50	28	Ant2	DSI-1	1	-	23.50	22.70	0.05	0.981	0.446	1.000	1.202	1.18	0.54
	NR n25/2	DFT-QPSK20M	Left Side	0cm	381000	50	28	Ant2	DSI-0	1	-	25.00	24.17	0.00	0.000	0.000	1.000	1.211	0.00	0.00
	NR n25/2	DFT-QPSK20M	Right Side	0cm	381000	50	28	Ant2	DSI-1	1	-	23.50	22.70	0.00	0.209	0.102	1.000	1.202	0.25	0.12
	NR n25/2	DFT-QPSK20M	Top Side	0cm	381000	50	28	Ant2	DSI-0	1	-	25.00	24.17	0.00	0.069	0.036	1.000	1.211	0.08	0.04
	NR n25/2	DFT-QPSK20M	Bottom Side	0cm	381000	50	28	Ant2	DSI-0	1	-	25.00	24.17	0.00	0.000	0.000	1.000	1.211	0.00	0.00
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	372000	1	1	Ant2	DSI-1	1	-	23.50	22.43	-0.03	0.770	0.385	1.000	1.279	0.99	0.49
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	376500	1	1	Ant2	DSI-1	1	-	23.50	22.56	0.02	0.806	0.396	1.000	1.242	1.00	0.49
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	372000	50	28	Ant2	DSI-1	1	-	23.50	22.61	-0.03	0.778	0.387	1.000	1.227	0.96	0.48
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	376500	50	28	Ant2	DSI-1	1	-	23.50	22.67	-0.01	0.830	0.404	1.000	1.211	1.01	0.49
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	381000	100	0	Ant2	DSI-1	1	-	23.50	22.63	0.00	0.708	0.338	1.000	1.222	0.87	0.41
	NR n25/2	DFT-QPSK20M	Rear Face	2.9cm	381000	1	1	Ant2	DSI-0	1	-	25.00	24.22	0.00	0.000	0.000	1.000	1.197	0.00	0.00
	NR n25/2	DFT-QPSK20M	Right Side	1.9cm	381000	1	1	Ant2	DSI-0	1	-	25.00	24.22	0.00	0.000	0.000	1.000	1.197	0.00	0.00
	NR n25/2	DFT-QPSK20M	Rear Face	2.9cm	381000	50	28	Ant2	DSI-0	1	-	25.00	24.17	0.00	0.000	0.000	1.000	1.211	0.00	0.00
	NR n25/2	DFT-QPSK20M	Right Side	1.9cm	381000	50	28	Ant2	DSI-0	1	-	25.00	24.17	0.00	0.000	0.000	1.000	1.211	0.00	0.00
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	381000	1	1	Ant2	DSI-2	1	-	19.00	18.37	-0.03	0.363	0.170	1.000	1.156	0.42	0.20
	NR n25/2	DFT-QPSK20M	Right Side	0cm	381000	1	1	Ant2	DSI-2	1	-	19.00	18.37	0.02	0.093	0.046	1.000	1.156	0.11	0.05
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	381000	50	28	Ant2	DSI-2	1	-	19.00	18.30	0.00	0.418	0.192	1.000	1.175	0.49	0.23
	NR n25/2	DFT-QPSK20M	Right Side	0cm	381000	50	28	Ant2	DSI-2	1	-	19.00	18.30	0.12	0.091	0.045	1.000	1.175	0.11	0.05
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	372000	50	28	Ant2	DSI-2	1	-	19.00	18.19	0.01	0.307	0.157	1.000	1.205	0.37	0.19
	NR n25/2	DFT-QPSK20M	Rear Face	0cm	376500	50	28	Ant2	DSI-2	1	-	19.00	18.26	0.00	0.326	0.160	1.000	1.186	0.39	0.19
	NR n30	DFT-QPSK10M	Rear Face	0cm	462000	1	1	Ant0	DSI-1	1	-	17.00	15.45	0.02	0.836	0.369	1.000	1.429	1.20	0.53
	NR n30	DFT-QPSK10M	Left Side	0cm	462000	1	1	Ant0	DSI-0	1	-	25.00	23.16	-0.01	0.412	0.212	1.000	1.528	0.63	0.32
	NR n30	DFT-QPSK10M	Right Side	0cm	462000	1	1	Ant0	DSI-0	1	-	25.00	23.16	0.02	0.027	0.007	1.000	1.528	0.04	0.01
	NR n30	DFT-QPSK10M	Top Side	0cm	462000	1	1	Ant0	DSI-1	1	-	17.00	15.45	0.00	0.585					



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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	NR n30	DFT-QPSK10M	Rear Face	0cm	462000	1	1	Ant2	DSI-2	1	-	13.00	12.20	-0.06	0.363	0.167	1.000	1.202	0.44	0.20
	NR n30	DFT-QPSK10M	Right Side	0cm	462000	1	1	Ant2	DSI-2	1	-	13.00	12.20	-0.05	0.267	0.124	1.000	1.202	0.32	0.15
	NR n30	DFT-QPSK10M	Rear Face	0cm	462000	25	14	Ant2	DSI-2	1	-	13.00	12.17	0.02	0.329	0.150	1.000	1.211	0.40	0.18
	NR n30	DFT-QPSK10M	Right Side	0cm	462000	25	14	Ant2	DSI-2	1	-	13.00	12.17	0.02	0.252	0.117	1.000	1.211	0.31	0.14
	NR n4138	DFT-QPSK100M	Rear Face	0cm	518598	1	1	Ant0	DSI-1	1	50	19.50	18.32	0.02	0.907	0.397	1.000	1.312	1.19	0.52
	NR n4138	DFT-QPSK100M	Left Side	0cm	518598	1	1	Ant0	DSI-0	1	50	27.00	25.89	0.00	0.293	0.154	1.000	1.291	0.38	0.20
	NR n4138	DFT-QPSK100M	Right Side	0cm	518598	1	1	Ant0	DSI-0	1	50	27.00	25.89	0.00	0.000	0.000	1.000	1.291	0.00	0.00
	NR n4138	DFT-QPSK100M	Top Side	0cm	518598	1	1	Ant0	DSI-1	1	50	19.50	18.32	0.03	0.787	0.311	1.000	1.312	1.03	0.41
	NR n4138	DFT-QPSK100M	Bottom Side	0cm	518598	1	1	Ant0	DSI-0	1	50	27.00	25.89	0.00	0.000	0.000	1.000	1.291	0.00	0.00
	NR n4138	DFT-QPSK100M	Rear Face	0cm	518598	135	69	Ant0	DSI-1	1	50	19.50	18.28	0.02	0.951	0.408	1.000	1.324	1.26	0.54
	NR n4138	DFT-QPSK100M	Left Side	0cm	518598	135	69	Ant0	DSI-0	1	50	27.00	25.87	0.01	0.377	0.193	1.000	1.297	0.49	0.25
	NR n4138	DFT-QPSK100M	Right Side	0cm	518598	135	69	Ant0	DSI-0	1	50	27.00	25.87	0.00	0.000	0.000	1.000	1.297	0.00	0.00
	NR n4138	DFT-QPSK100M	Top Side	0cm	518598	135	69	Ant0	DSI-1	1	50	19.50	18.28	0.01	0.920	0.342	1.000	1.324	1.22	0.45
	NR n4138	DFT-QPSK100M	Bottom Side	0cm	518598	135	69	Ant0	DSI-0	1	50	27.00	25.87	0.00	0.000	0.000	1.000	1.297	0.00	0.00
	NR n4138	DFT-QPSK100M	Rear Face	0cm	509202	1	1	Ant0	DSI-1	1	50	19.50	18.30	0.00	0.764	0.325	1.000	1.318	1.01	0.43
	NR n4138	DFT-QPSK100M	Rear Face	0cm	528000	1	1	Ant0	DSI-1	1	50	19.50	18.27	0.00	0.950	0.400	1.000	1.327	1.26	0.53
	NR n4138	DFT-QPSK100M	Top Side	0cm	509202	1	1	Ant0	DSI-1	1	50	19.50	18.30	0.06	0.606	0.257	1.000	1.318	0.80	0.34
	NR n4138	DFT-QPSK100M	Top Side	0cm	528000	1	1	Ant0	DSI-1	1	50	19.50	18.27	-0.02	0.875	0.350	1.000	1.327	1.16	0.47
	NR n4138	DFT-QPSK100M	Rear Face	0cm	509202	135	69	Ant0	DSI-1	1	50	19.50	18.23	0.06	0.776	0.339	1.000	1.340	1.04	0.45
	NR n4138	DFT-QPSK100M	Rear Face	0cm	528000	135	69	Ant0	DSI-1	1	50	19.50	18.17	-0.04	0.933	0.400	1.000	1.358	1.27	0.54
	NR n4138	DFT-QPSK100M	Top Side	0cm	509202	135	69	Ant0	DSI-1	1	50	19.50	18.23	0.01	0.703	0.262	1.000	1.340	0.94	0.35
	NR n4138	DFT-QPSK100M	Top Side	0cm	528000	135	69	Ant0	DSI-1	1	50	19.50	18.17	0.01	0.935	0.365	1.000	1.358	1.27	0.50
	NR n4138	DFT-QPSK100M	Rear Face	0cm	518598	270	0	Ant0	DSI-1	1	50	19.50	18.26	-0.01	0.723	0.326	1.000	1.330	0.96	0.43
	NR n4138	DFT-QPSK100M	Top Side	0cm	518598	270	0	Ant0	DSI-1	1	50	19.50	18.26	0.00	0.750	0.275	1.000	1.330	1.00	0.37
	NR n4138	DFT-QPSK100M	Rear Face	2.9cm	518598	1	1	Ant0	DSI-0	1	50	27.00	25.89	0.00	0.097	0.055	1.000	1.291	0.13	0.07
	NR n4138	DFT-QPSK100M	Top Side	2.9cm	518598	1	1	Ant0	DSI-0	1	50	27.00	25.89	0.02	0.147	0.085	1.000	1.291	0.19	0.11
	NR n4138	DFT-QPSK100M	Rear Face	2.9cm	518598	135	69	Ant0	DSI-0	1	50	27.00	25.87	0.02	0.103	0.057	1.000	1.297	0.13	0.07
	NR n4138	DFT-QPSK100M	Top Side	2.9cm	518598	135	69	Ant0	DSI-0	1	50	27.00	25.87	0.01	0.174	0.099	1.000	1.297	0.23	0.13
	NR n4138	DFT-QPSK100M	Rear Face	0cm	518598	1	1	Ant0	DSI-2	1	50	14.00	12.96	-0.02	0.236	0.085	1.000	1.271	0.30	0.11
	NR n4138	DFT-QPSK100M	Top Side	0cm	518598	1	1	Ant0	DSI-2	1	50	14.00	12.96	-0.01	0.188	0.075	1.000	1.271	0.24	0.10
	NR n4138	DFT-QPSK100M	Rear Face	0cm	518598	135	69	Ant0	DSI-2	1	50	14.00	12.91	-0.04	0.251	0.086	1.000	1.285	0.32	0.11
	NR n4138	DFT-QPSK100M	Top Side	0cm	518598	135	69	Ant0	DSI-2	1	50	14.00	12.91	0.01	0.228	0.086	1.000	1.285	0.29	0.11
	NR n4138	DFT-QPSK100M	Rear Face	0cm	509202	135	69	Ant0	DSI-2	1	50	14.00	12.83	0.00	0.157	0.057	1.000	1.309	0.21	0.08
	NR n4138	DFT-QPSK100M	Rear Face	0cm	528000	135	69	Ant0	DSI-2	1	50	14.00	12.79	-0.07	0.292	0.102	1.000	1.321	0.39	0.14
	NR n41	DFT-QPSK100M	Rear Face	0cm	518598	1	1	Ant2	DSI-1	1	50	20.50	19.86	0.01	0.982	0.443	1.000	1.159	1.12	0.51
	NR n41	DFT-QPSK100M	Left Side	0cm	518598	1	1	Ant2	DSI-0	1	50	25.50	24.59	0.00	0.000	0.000	1.000	1.233	0.00	0.00
	NR n41	DFT-QPSK100M	Right Side	0cm	518598	1	1	Ant2	DSI-1	1	50	20.50	19.86	0.01	0.642	0.308	1.000	1.159	0.74	0.36
	NR n41	DFT-QPSK100M	Top Side	0cm	518598	1	1	Ant2	DSI-0	1	50	25.50	24.59	-0.08	0.049	0.023	1.000	1.233	0.06	0.03
	NR n41	DFT-QPSK100M	Bottom Side	0cm	518598	1	1	Ant2	DSI-0	1	50	25.50	24.59	0.00	0.000	0.000	1.000	1.233	0.00	0.00
	NR n41	DFT-QPSK100M	Rear Face	0cm	518598	135	69	Ant2	DSI-1	1	50	20.50	19.77	-0.02	0.915	0.406	1.000	1.183	1.08	0.48
	NR n41	DFT-QPSK100M	Left Side	0cm	518598	135	69	Ant2	DSI-0	1	50	25.50	24.52	0.00	0.000	0.000	1.000	1.253	0.00	0.00
	NR n41	DFT-QPSK100M	Right Side	0cm	518598	135	69	Ant2	DSI-1	1	50	20.50	19.77	0.01	0.564	0.258	1.000	1.183	0.67	0.31
	NR n41	DFT-QPSK100M	Top Side	0cm	518598	135	69	Ant2	DSI-0	1	50	25.50	24.52	0.00	0.048	0.025	1.000	1.253	0.06	0.03
	NR n41	DFT-QPSK100M	Bottom Side	0cm	518598	135	69	Ant2	DSI-0	1	50	25.50	24.52	0.00	0.000	0.000	1.000	1.253	0.00	0.00
P20	NR n41	DFT-QPSK100M	Rear Face	0cm	509202	1	1	Ant2	DSI-1	1	50	20.50	19.68	0.01	1.060	0.490	1.000	1.208	1.28	0.59
	NR n41	DFT-QPSK100M	Rear Face	0cm	528000	1	1	Ant2	DSI-1	1	50	20.50	19.61	0.06	0.882	0.384	1.000	1.227	1.08	0.47
	NR n41	DFT-QPSK100M	Rear Face	0cm	509202	135	69	Ant2	DSI-1	1	50	20.50	19.67	0.02	0.691	0.304	1.000	1.211	0.84	0.37
	NR n41	DFT-QPSK100M	Rear Face	0cm	528000	135	69	Ant2	DSI-1	1	50	20.50	19.75	0.01	0.809	0.354	1.000	1.189	0.96	0.42
	NR n41	DFT-QPSK100M	Rear Face	0cm	518598	270	0	Ant2	DSI-1	1	50	20.50	19.68	-0.01	0.711	0.311	1.000	1.208	0.86	0.38
	NR n41	DFT-QPSK100M	Rear Face	2.9cm	518598	1	1	Ant2	DSI-0	1	50	25.50	24.59	0.00	0.417	0.231	1.000	1.233	0.51	0.29
	NR n41	DFT-QPSK100M	Right Side	1.9cm	518598	1	1	Ant2	DSI-0	1	50	25.50	24.59	0.05	0.584	0.311	1.000	1.233	0.72	0.38
	NR n41	DFT-QPSK100M	Rear Face	2.9cm	518598	135	69	Ant2	DSI-0	1	50	25.50	24.52	0.16	0.271	0.149	1.000	1.253	0.34	0.19
	NR n41	DFT-QPSK100M	Right Side	1.9cm	518598	135	69	Ant2	DSI-0	1	50	25.50	24.52	0.01	0.384	0.204	1.000	1.253	0.48	0.26
	NR n41	DFT-QPSK100M	Rear Face	0cm	518598	1	1	Ant2	DSI-2	1	50	15.50	14.98	0.00	0.281	0.122	1.000	1.127	0.32	0.14
	NR n41	DFT-QPSK100M	Right Side	0cm	518598	1	1	Ant2	DSI-2	1	50	15.50	14.98	-0.01	0.223	0.099	1.000	1.127	0.25	0.11
	NR n41	DFT-QPSK100M	Rear Face	0cm	518598	135	69	Ant2	DSI-2	1	50	15.50	14.81	0.01	0.243	0.107	1.000	1.172	0.29	0.13
	NR n41	DFT-QPSK100M	Right Side	0cm	518598	135	69	Ant2	DSI-2	1	50	15.50	14.81	-0.02	0.197	0.087	1.000	1.172	0.23	0.10
	NR n41	DFT-QPSK100M	Rear Face	0cm	509202	1	1	Ant2	DSI-2	1	50	15.50	14.57	0.03	0.368	0.171	1.000	1.239	0.46	0.21
	NR n41	DFT-QPSK100M	Rear Face	0cm	528000	1	1	Ant2	DSI-2	1	50	15.50	14.67	0.00	0.245	0.107	1.000	1.211	0.30	0.13
	NR n48	DFT-QPSK40M	Rear Face	0cm	645332	1	1	Ant1	DSI-1	1	50	22.00	20.75	-0.03	0.613	0.299	1.000	1.334	0.82	0.40
	NR n48	DFT-QPSK40M	Left Side	0cm	645332	1	1	Ant1	DSI-1	1	50	22.00	20.75	-0.01	0.636	0.244	1.000	1.334	0.85	0.33
	NR n48	DFT-QPSK40M	Right Side	0cm	645332	1	1	Ant1	DSI-0	1	50	25.50	24.21	0.09	0.065	0.028	1.000	1.346	0.09	0.04
	NR n48	DFT-QPSK40M	Top Side	0cm	645332	1	1	Ant1	DSI-1	1	50	22.00	20.75	-0.01	0.516	0.255	1.000	1.334	0.69	0.34
	NR n48	DFT-QPSK40M	Bottom Side	0cm	645332	1	1	Ant1	DSI-0	1	50	25.50	24.21	0.00	0.000	0.000	1.000	1.346	0.00	0.00
	NR n48	DFT-QPSK40M	Rear Face	0cm	645332	50	28	Ant1	DSI-1	1	50	22.00	20.61	0.01	0.603	0.310				



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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
P22	NR n66	DFT-QPSK30M	Bottom Side	0cm	349000	1	1	Ant0	DSI-0	1	-	25.50	25.27	0.00	0.000	0.000	1.000	1.054	0.00	0.00
	NR n66	DFT-QPSK30M	Rear Face	0cm	349000	80	40	Ant0	DSI-1	1	-	16.50	16.03	-0.04	1.040	0.494	1.000	1.114	1.16	0.55
	NR n66	DFT-QPSK30M	Left Side	0cm	349000	80	40	Ant0	DSI-0	1	-	25.50	25.21	-0.05	0.142	0.076	1.000	1.069	0.15	0.08
	NR n66	DFT-QPSK30M	Right Side	0cm	349000	80	40	Ant0	DSI-0	1	-	25.50	25.21	0.00	0.050	0.027	1.000	1.069	0.05	0.03
	NR n66	DFT-QPSK30M	Top Side	0cm	349000	80	40	Ant0	DSI-1	1	-	16.50	16.03	0.02	0.931	0.427	1.000	1.114	1.04	0.48
	NR n66	DFT-QPSK30M	Bottom Side	0cm	349000	80	40	Ant0	DSI-0	1	-	25.50	25.21	0.00	0.000	0.000	1.000	1.069	0.00	0.00
	NR n66	DFT-QPSK30M	Rear Face	0cm	345000	1	1	Ant0	DSI-1	1	-	16.50	16.01	0.01	0.831	0.398	1.000	1.119	0.93	0.45
	NR n66	DFT-QPSK30M	Rear Face	0cm	353000	1	1	Ant0	DSI-1	1	-	16.50	15.99	0.00	1.090	0.521	1.000	1.125	1.23	0.59
	NR n66	DFT-QPSK30M	Top Side	0cm	345000	1	1	Ant0	DSI-1	1	-	16.50	16.01	0.01	0.662	0.310	1.000	1.119	0.74	0.35
	NR n66	DFT-QPSK30M	Top Side	0cm	353000	1	1	Ant0	DSI-1	1	-	16.50	15.99	0.02	0.949	0.436	1.000	1.125	1.07	0.49
	NR n66	DFT-QPSK30M	Rear Face	0cm	345000	80	40	Ant0	DSI-1	1	-	16.50	15.99	0.02	0.893	0.426	1.000	1.125	1.00	0.48
	NR n66	DFT-QPSK30M	Rear Face	0cm	353000	80	40	Ant0	DSI-1	1	-	16.50	15.96	0.04	1.160	0.568	1.000	1.132	1.31	0.64
	NR n66	DFT-QPSK30M	Top Side	0cm	345000	80	40	Ant0	DSI-1	1	-	16.50	15.99	0.00	0.779	0.359	1.000	1.125	0.88	0.40
	NR n66	DFT-QPSK30M	Top Side	0cm	353000	80	40	Ant0	DSI-1	1	-	16.50	15.96	-0.03	1.080	0.499	1.000	1.132	1.22	0.57
	NR n66	DFT-QPSK30M	Rear Face	0cm	349000	160	0	Ant0	DSI-1	1	-	16.50	16.05	0.03	0.843	0.395	1.000	1.109	0.94	0.44
	NR n66	DFT-QPSK30M	Top Side	0cm	349000	160	0	Ant0	DSI-1	1	-	16.50	16.05	0.01	0.753	0.348	1.000	1.109	0.84	0.39
	NR n66	DFT-QPSK30M	Rear Face	2.9cm	349000	1	1	Ant0	DSI-0	1	-	25.50	25.27	-0.05	0.228	0.139	1.000	1.054	0.24	0.15
	NR n66	DFT-QPSK30M	Top Side	2.9cm	349000	1	1	Ant0	DSI-0	1	-	25.50	25.27	0.01	0.276	0.170	1.000	1.054	0.29	0.18
	NR n66	DFT-QPSK30M	Rear Face	2.9cm	349000	80	40	Ant0	DSI-0	1	-	25.50	25.21	0.00	0.284	0.173	1.000	1.069	0.30	0.19
	NR n66	DFT-QPSK30M	Top Side	2.9cm	349000	80	40	Ant0	DSI-0	1	-	25.50	25.21	0.00	0.355	0.218	1.000	1.069	0.38	0.23
	NR n66	DFT-QPSK30M	Rear Face 1	0cm	353000	80	40	Ant0	DSI-1	2	-	16.50	15.96	0.01	0.229	0.130	1.000	1.132	0.26	0.15
	NR n66	DFT-QPSK30M	Rear Face 2	0cm	353000	80	40	Ant0	DSI-1	2	-	16.50	15.96	-0.01	1.150	0.553	1.000	1.132	1.30	0.63
P23	NR n66	DFT-QPSK30M	Rear Face	0cm	349000	1	1	Ant0	DSI-2	1	-	12.00	11.56	0.01	0.364	0.171	1.000	1.107	0.40	0.19
	NR n66	DFT-QPSK30M	Top Side	0cm	349000	1	1	Ant0	DSI-2	1	-	12.00	11.56	0.06	0.299	0.134	1.000	1.107	0.33	0.15
	NR n66	DFT-QPSK30M	Rear Face	0cm	349000	80	40	Ant0	DSI-2	1	-	12.00	11.46	0.01	0.406	0.187	1.000	1.132	0.46	0.21
	NR n66	DFT-QPSK30M	Top Side	0cm	349000	80	40	Ant0	DSI-2	1	-	12.00	11.46	-0.05	0.358	0.160	1.000	1.132	0.41	0.18
	NR n66	DFT-QPSK30M	Rear Face	0cm	345000	80	40	Ant0	DSI-2	1	-	12.00	11.40	0.01	0.351	0.163	1.000	1.148	0.40	0.19
	NR n66	DFT-QPSK30M	Rear Face	0cm	353000	80	40	Ant0	DSI-2	1	-	12.00	11.44	-0.01	0.435	0.211	1.000	1.138	0.50	0.24
	NR n66	DFT-QPSK30M	Rear Face	0cm	345000	1	1	Ant2	DSI-1	1	-	25.50	24.35	0.07	0.834	0.461	1.000	1.303	1.09	0.60
	NR n66	DFT-QPSK30M	Left Side	0cm	345000	1	1	Ant2	DSI-0	1	-	25.50	24.35	0.00	0.000	0.000	1.000	1.303	0.00	0.00
	NR n66	DFT-QPSK30M	Right Side	0cm	345000	1	1	Ant2	DSI-1	1	-	25.50	24.35	0.02	0.413	0.193	1.000	1.303	0.54	0.25
	NR n66	DFT-QPSK30M	Top Side	0cm	345000	1	1	Ant2	DSI-0	1	-	25.50	24.35	-0.03	0.100	0.052	1.000	1.303	0.13	0.07
	NR n66	DFT-QPSK30M	Bottom Side	0cm	345000	1	1	Ant2	DSI-0	1	-	25.50	24.35	0.00	0.000	0.000	1.000	1.303	0.00	0.00
	NR n66	DFT-QPSK30M	Rear Face	0cm	345000	80	40	Ant2	DSI-1	1	-	25.50	24.27	-0.01	0.846	0.442	1.000	1.327	1.12	0.59
NR n66	DFT-QPSK30M	Left Side	0cm	345000	80	40	Ant2	DSI-0	1	-	25.50	24.27	0.00	0.000	0.000	1.000	1.327	0.00	0.00	
NR n66	DFT-QPSK30M	Right Side	0cm	345000	80	40	Ant2	DSI-1	1	-	25.50	24.27	-0.13	0.352	0.169	1.000	1.327	0.47	0.22	
NR n66	DFT-QPSK30M	Top Side	0cm	345000	80	40	Ant2	DSI-0	1	-	25.50	24.27	0.01	0.115	0.062	1.000	1.327	0.15	0.08	
NR n66	DFT-QPSK30M	Bottom Side	0cm	345000	80	40	Ant2	DSI-0	1	-	25.50	24.27	0.00	0.000	0.000	1.000	1.327	0.00	0.00	
NR n66	DFT-QPSK30M	Rear Face	0cm	349000	1	1	Ant2	DSI-1	1	-	25.50	24.19	0.00	0.821	0.454	1.000	1.352	1.11	0.61	
NR n66	DFT-QPSK30M	Rear Face	0cm	353000	1	1	Ant2	DSI-1	1	-	25.50	23.94	0.02	0.788	0.414	1.000	1.432	1.13	0.59	
NR n66	DFT-QPSK30M	Rear Face	0cm	349000	80	40	Ant2	DSI-1	1	-	25.50	24.05	0.00	0.795	0.432	1.000	1.396	1.11	0.60	
NR n66	DFT-QPSK30M	Rear Face	0cm	353000	80	40	Ant2	DSI-1	1	-	25.50	24.12	0.02	0.812	0.445	1.000	1.374	1.12	0.61	
NR n66	DFT-QPSK30M	Rear Face	0cm	345000	160	0	Ant2	DSI-1	1	-	24.50	23.13	0.01	0.665	0.359	1.000	1.371	0.91	0.49	
NR n66	DFT-QPSK30M	Rear Face	2.9cm	345000	1	1	Ant2	DSI-0	1	-	25.50	24.35	0.00	0.000	0.000	1.000	1.303	0.00	0.00	
NR n66	DFT-QPSK30M	Right Side	1.9cm	345000	1	1	Ant2	DSI-0	1	-	25.50	24.35	0.00	0.000	0.000	1.000	1.303	0.00	0.00	
NR n66	DFT-QPSK30M	Rear Face	2.9cm	345000	80	40	Ant2	DSI-0	1	-	25.50	24.27	0.00	0.000	0.000	1.000	1.327	0.00	0.00	
NR n66	DFT-QPSK30M	Right Side	1.9cm	345000	80	40	Ant2	DSI-0	1	-	25.50	24.27	0.00	0.000	0.000	1.000	1.327	0.00	0.00	
P23	NR n71	DFT-QPSK20M	Rear Face	0cm	134600	1	1	Ant0	DSI-1	1	-	22.50	21.68	0.00	0.441	0.225	1.000	1.208	0.53	0.27
	NR n66	DFT-QPSK30M	Right Side	0cm	345000	1	1	Ant2	DSI-2	1	-	22.50	21.68	-0.06	0.179	0.087	1.000	1.208	0.22	0.11
	NR n66	DFT-QPSK30M	Rear Face	0cm	345000	80	40	Ant2	DSI-2	1	-	22.50	21.31	0.01	0.375	0.204	1.000	1.315	0.49	0.27
	NR n66	DFT-QPSK30M	Right Side	0cm	345000	80	40	Ant2	DSI-2	1	-	22.50	21.31	-0.02	0.154	0.078	1.000	1.315	0.20	0.10
	NR n66	DFT-QPSK30M	Rear Face	0cm	349000	1	1	Ant2	DSI-2	1	-	22.50	21.26	0.00	0.385	0.198	1.000	1.330	0.51	0.26
	NR n66	DFT-QPSK30M	Rear Face	0cm	353000	1	1	Ant2	DSI-2	1	-	22.50	21.05	0.00	0.365	0.190	1.000	1.396	0.51	0.27
	NR n71	DFT-QPSK20M	Rear Face	0cm	134600	1	1	Ant0	DSI-1	1	-	25.50	24.13	-0.06	0.625	0.294	1.000	1.371	0.86	0.40
	NR n71	DFT-QPSK20M	Left Side	0cm	134600	1	1	Ant0	DSI-0	1	-	25.50	24.13	0.01	0.079	0.036	1.000	1.371	0.11	0.05
	NR n71	DFT-QPSK20M	Right Side	0cm	134600	1	1	Ant0	DSI-0	1	-	25.50	24.13	0.00	0.000	0.000	1.000	1.371	0.00	0.00
	NR n71	DFT-QPSK20M</																		



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	633334	1	1	Ant1	DSI-2	1	50	15.50	14.16	0.01	0.153	0.064	1.000	1.361	0.21	0.09
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	135	69	Ant1	DSI-2	1	50	15.50	14.01	-0.02	0.238	0.096	1.000	1.409	0.34	0.14
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	633334	135	69	Ant1	DSI-2	1	50	15.50	14.01	0.00	0.209	0.085	1.000	1.409	0.30	0.12
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	633334	135	69	Ant1	DSI-2	1	50	15.50	14.01	0.06	0.147	0.062	1.000	1.409	0.21	0.09
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	656000	1	1	Ant1	DSI-1	1	50	20.00	18.87	0.01	0.579	0.258	1.000	1.297	0.75	0.34
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	656000	1	1	Ant1	DSI-1	1	50	20.00	18.87	-0.04	0.680	0.272	1.000	1.297	0.88	0.35
	NR n77 Part27Q	DFT-QPSK100M	Right Side	0cm	656000	1	1	Ant1	DSI-0	1	50	27.00	25.82	-0.02	0.112	0.048	1.000	1.312	0.15	0.06
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	656000	1	1	Ant1	DSI-1	1	50	20.00	18.87	0.06	0.488	0.194	1.000	1.297	0.63	0.25
	NR n77 Part27Q	DFT-QPSK100M	Bottom Side	0cm	656000	1	1	Ant1	DSI-0	1	50	27.00	25.82	0.00	0.000	0.000	1.000	1.312	0.00	0.00
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	656000	135	69	Ant1	DSI-1	1	50	20.00	18.79	-0.08	0.647	0.260	1.000	1.321	0.86	0.34
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	656000	135	69	Ant1	DSI-1	1	50	20.00	18.79	0.10	0.660	0.268	1.000	1.321	0.87	0.35
	NR n77 Part27Q	DFT-QPSK100M	Right Side	0cm	656000	135	69	Ant1	DSI-0	1	50	27.00	25.69	0.03	0.114	0.048	1.000	1.352	0.15	0.07
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	656000	135	69	Ant1	DSI-1	1	50	20.00	18.79	0.01	0.476	0.190	1.000	1.321	0.63	0.25
	NR n77 Part27Q	DFT-QPSK100M	Bottom Side	0cm	656000	135	69	Ant1	DSI-0	1	50	27.00	25.69	0.00	0.000	0.000	1.000	1.352	0.00	0.00
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	650000	1	1	Ant1	DSI-1	1	50	20.00	18.80	0.05	0.755	0.280	1.000	1.318	1.00	0.37
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	662000	1	1	Ant1	DSI-1	1	50	20.00	18.66	0.01	0.700	0.254	1.000	1.361	0.95	0.35
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	650000	135	69	Ant1	DSI-1	1	50	20.00	18.63	0.00	0.679	0.272	1.000	1.371	0.93	0.37
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	662000	135	69	Ant1	DSI-1	1	50	20.00	18.57	0.00	0.255	0.299	1.000	1.390	0.35	0.42
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	650000	135	69	Ant1	DSI-1	1	50	20.00	18.63	0.06	0.719	0.265	1.000	1.371	0.99	0.36
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	662000	135	69	Ant1	DSI-1	1	50	20.00	18.63	0.07	0.717	0.279	1.000	1.390	1.00	0.39
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	656000	270	0	Ant1	DSI-1	1	50	20.00	18.75	0.05	0.440	0.196	1.000	1.334	0.59	0.26
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	656000	270	0	Ant1	DSI-1	1	50	20.00	18.75	-0.04	0.567	0.211	1.000	1.334	0.76	0.28
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	2.9cm	656000	1	1	Ant1	DSI-0	1	50	27.00	25.82	-0.02	0.220	0.110	1.000	1.312	0.29	0.14
	NR n77 Part27Q	DFT-QPSK100M	Left Side	1.9cm	656000	1	1	Ant1	DSI-0	1	50	27.00	25.82	0.01	0.364	0.179	1.000	1.312	0.48	0.24
	NR n77 Part27Q	DFT-QPSK100M	Top Side	2.9cm	656000	1	1	Ant1	DSI-0	1	50	27.00	25.82	0.01	0.316	0.160	1.000	1.312	0.42	0.21
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	2.9cm	656000	135	69	Ant1	DSI-0	1	50	27.00	25.69	0.00	0.193	0.097	1.000	1.352	0.26	0.13
	NR n77 Part27Q	DFT-QPSK100M	Left Side	1.9cm	656000	135	69	Ant1	DSI-0	1	50	27.00	25.69	-0.06	0.361	0.176	1.000	1.352	0.49	0.24
	NR n77 Part27Q	DFT-QPSK100M	Top Side	2.9cm	656000	135	69	Ant1	DSI-0	1	50	27.00	25.69	0.03	0.342	0.172	1.000	1.352	0.46	0.23
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	656000	1	1	Ant1	DSI-2	1	50	15.50	14.48	0.02	0.211	0.093	1.000	1.265	0.27	0.12
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	656000	1	1	Ant1	DSI-2	1	50	15.50	14.48	0.04	0.238	0.096	1.000	1.265	0.30	0.12
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	656000	1	1	Ant1	DSI-2	1	50	15.50	14.48	-0.09	0.178	0.078	1.000	1.265	0.23	0.10
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	656000	135	69	Ant1	DSI-2	1	50	15.50	14.36	0.00	0.207	0.085	1.000	1.300	0.27	0.11
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	656000	135	69	Ant1	DSI-2	1	50	15.50	14.36	0.01	0.214	0.091	1.000	1.300	0.28	0.12
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	656000	135	69	Ant1	DSI-2	1	50	15.50	14.36	0.02	0.169	0.068	1.000	1.300	0.22	0.09
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	650000	1	1	Ant1	DSI-2	1	50	15.50	14.36	0.09	0.229	0.098	1.000	1.300	0.30	0.13
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	662000	1	1	Ant1	DSI-2	1	50	15.50	14.21	-0.01	0.231	0.087	1.000	1.346	0.31	0.12
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	1	1	Ant1+1	DSI-1	1	50	17.50	16.30	0.02	0.812	0.375	1.000	1.318	1.07	0.49
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	633334	1	1	Ant1+1	DSI-1	1	50	17.50	16.30	0.01	0.428	0.176	1.000	1.318	0.56	0.23
	NR n77 Part27Q	DFT-QPSK100M	Right Side	0cm	633334	1	1	Ant1+1	DSI-0	1	50	25.50	24.15	-0.09	0.060	0.027	1.000	1.365	0.08	0.04
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	633334	1	1	Ant1+1	DSI-1	1	50	17.50	16.30	-0.06	0.664	0.266	1.000	1.318	0.88	0.35
	NR n77 Part27Q	DFT-QPSK100M	Bottom Side	0cm	633334	1	1	Ant1+1	DSI-0	1	50	25.50	24.15	-0.04	0.051	0.012	1.000	1.365	0.07	0.02
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	135	69	Ant1+1	DSI-1	1	50	17.50	16.19	0.01	0.783	0.354	1.000	1.352	1.06	0.48
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	633334	135	69	Ant1+1	DSI-1	1	50	17.50	16.19	-0.08	0.501	0.193	1.000	1.352	0.68	0.26
	NR n77 Part27Q	DFT-QPSK100M	Right Side	0cm	633334	135	69	Ant1+1	DSI-0	1	50	25.50	23.93	0.01	0.057	0.027	1.000	1.435	0.08	0.04
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	633334	135	69	Ant1+1	DSI-1	1	50	17.50	16.19	0.16	0.515	0.224	1.000	1.352	0.70	0.30
	NR n77 Part27Q	DFT-QPSK100M	Bottom Side	0cm	633334	135	69	Ant1+1	DSI-0	1	50	25.50	23.93	0.01	0.036	0.013	1.000	1.435	0.05	0.02
P24	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	270	0	Ant1+1	DSI-1	1	50	17.50	15.84	-0.11	0.883	0.443	1.000	1.466	1.29	0.65
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	633334	270	0	Ant1+1	DSI-1	1	50	17.50	15.84	0.18	0.677	0.254	1.000	1.468	0.99	0.37
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	2.9cm	633334	1	1	Ant1+1	DSI-0	1	50	25.50	24.15	0.01	0.340	0.171	1.000	1.365	0.46	0.23
	NR n77 Part27Q	DFT-QPSK100M	Top Side	2.9cm	633334	1	1	Ant1+1	DSI-0	1	50	25.50	24.15	0.08	0.310	0.161	1.000	1.365	0.42	0.22
	NR n77 Part27Q	DFT-QPSK100M	Left Side	1.9cm	633334	1	1	Ant1+1	DSI-0	1	50	25.50	24.15	0.01	0.257	0.131	1.000	1.365	0.35	0.18
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	2.9cm	633334	135	69	Ant1+1	DSI-0	1	50	25.50	23.93	0.06	0.310	0.151	1.000	1.435	0.45	0.22
	NR n77 Part27Q	DFT-QPSK100M	Top Side	2.9cm	633334	135	69	Ant1+1	DSI-0	1	50	25.50	23.93	-0.04	0.287	0.141	1.000	1.435	0.41	0.20
	NR n77 Part27Q	DFT-QPSK100M	Left Side	1.9cm	633334	135	69	Ant1+1	DSI-0	1	50	25.50	23.93	0.01	0.223	0.101	1.000	1.435	0.32	0.15
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	1	1	Ant1+1	DSI-2	1	50	15.50	14.32	0.00	0.293	0.118	1.000	1.312	0.38	0.16
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	633334	1	1	Ant1+1	DSI-2	1	50	15.50	14.32	0.02	0.211	0.080	1.000	1.312	0.28	0.11
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	633334	1	1	Ant1+1	DSI-2	1	50	15.50	14.32	0.01	0.122	0.055	1.000	1.312	0.16	0.07
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	135	69	Ant1+1	DSI-2	1	50	15.50	14.26	0.09	0.291	0.114	1.000	1.330	0.39	0.15
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	633334	135	69	Ant1+1	DSI-2	1	50	15.50	14.26	0.01	0.190	0.069	1.000	1.330	0.25	0.09
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	633334	135	69	Ant1+1	DSI-2	1	50	15.50	14.26	-0.03	0.117	0.049	1.000	1.330	0.16	0.07
	NR n77 Part27Q	DFT-QPSK100M	Rear Face	0cm	662000	1	1	Ant1+1	DSI-1	1	50	17.50	16.73	0.03	0.795	0.295	1.000	1.194	0.95	0.35
	NR n77 Part27Q	DFT-QPSK100M	Left Side	0cm	662000	1	1	Ant1+1	DSI-1	1	50	17.50	16.73	-0.02	0.490	0.192	1.000	1.194	0.59	0.23
	NR n77 Part27Q	DFT-QPSK100M	Right Side	0cm	662000	1	1	Ant1+1	DSI-0	1	50	25.50	24.80	0.02	0.060	0.028	1.000	1.175	0.07	0.03
	NR n77 Part27Q	DFT-QPSK100M	Top Side	0cm	6															



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	NR n78_Part27Q	DFT-QPSK100M	Bottom Side	0cm	633334	135	69	Ant1	DSI-0	1	50	27.00	25.33	0.00	0.000	0.000	1.000	1.469	0.00	0.00
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	270	0	Ant1	DSI-1	1	50	20.50	18.82	0.00	0.620	0.274	1.000	1.472	0.91	0.40
	NR n78_Part27Q	DFT-QPSK100M	Left Side	0cm	633334	270	0	Ant1	DSI-1	1	50	20.50	18.82	0.00	0.602	0.265	1.000	1.472	0.89	0.39
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	2.9cm	633334	1	1	Ant1	DSI-0	1	50	27.00	25.35	0.03	0.278	0.141	1.000	1.462	0.41	0.21
	NR n78_Part27Q	DFT-QPSK100M	Left Side	1.9cm	633334	1	1	Ant1	DSI-0	1	50	27.00	25.35	0.01	0.468	0.238	1.000	1.462	0.68	0.35
	NR n78_Part27Q	DFT-QPSK100M	Top Side	2.9cm	633334	1	1	Ant1	DSI-0	1	50	27.00	25.35	0.01	0.402	0.210	1.000	1.462	0.59	0.31
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	2.9cm	633334	135	69	Ant1	DSI-0	1	50	27.00	25.33	0.00	0.296	0.156	1.000	1.469	0.44	0.23
	NR n78_Part27Q	DFT-QPSK100M	Left Side	1.9cm	633334	135	69	Ant1	DSI-0	1	50	27.00	25.33	0.05	0.448	0.229	1.000	1.469	0.66	0.34
	NR n78_Part27Q	DFT-QPSK100M	Top Side	2.9cm	633334	135	69	Ant1	DSI-0	1	50	27.00	25.33	0.01	0.369	0.192	1.000	1.469	0.54	0.28
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	1	1	Ant1	DSI-2	1	50	16.00	14.67	0.02	0.298	0.151	1.000	1.358	0.41	0.21
	NR n78_Part27Q	DFT-QPSK100M	Left Side	0cm	633334	1	1	Ant1	DSI-2	1	50	16.00	14.67	0.09	0.286	0.111	1.000	1.358	0.39	0.15
	NR n78_Part27Q	DFT-QPSK100M	Top Side	0cm	633334	1	1	Ant1	DSI-2	1	50	16.00	14.67	0.01	0.176	0.076	1.000	1.358	0.24	0.10
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	135	69	Ant1	DSI-2	1	50	16.00	14.59	0.00	0.303	0.135	1.000	1.384	0.42	0.19
	NR n78_Part27Q	DFT-QPSK100M	Left Side	0cm	633334	135	69	Ant1	DSI-2	1	50	16.00	14.59	0.09	0.257	0.099	1.000	1.384	0.36	0.14
	NR n78_Part27Q	DFT-QPSK100M	Top Side	0cm	633334	135	69	Ant1	DSI-2	1	50	16.00	14.59	-0.05	0.158	0.068	1.000	1.384	0.22	0.09
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	1	1	Ant0+1	DSI-1	1	50	17.50	16.07	-0.11	0.531	0.258	1.000	1.390	0.74	0.36
	NR n78_Part27Q	DFT-QPSK100M	Left Side	0cm	633334	1	1	Ant0+1	DSI-1	1	50	17.50	16.07	0.07	0.317	0.125	1.000	1.390	0.44	0.17
	NR n78_Part27Q	DFT-QPSK100M	Right Side	0cm	633334	1	1	Ant0+1	DSI-0	1	50	25.50	23.95	0.05	0.068	0.021	1.000	1.429	0.10	0.03
	NR n78_Part27Q	DFT-QPSK100M	Top Side	0cm	633334	1	1	Ant0+1	DSI-1	1	50	17.50	16.07	-0.03	0.446	0.175	1.000	1.390	0.62	0.24
	NR n78_Part27Q	DFT-QPSK100M	Bottom Side	0cm	633334	1	1	Ant0+1	DSI-0	1	50	25.50	23.95	0.09	0.051	0.012	1.000	1.429	0.07	0.02
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	135	69	Ant0+1	DSI-1	1	50	17.50	16.01	-0.06	0.503	0.211	1.000	1.409	0.71	0.30
	NR n78_Part27Q	DFT-QPSK100M	Left Side	0cm	633334	135	69	Ant0+1	DSI-1	1	50	17.50	16.01	0.02	0.293	0.121	1.000	1.409	0.41	0.17
	NR n78_Part27Q	DFT-QPSK100M	Right Side	0cm	633334	135	69	Ant0+1	DSI-0	1	50	25.50	23.95	0.05	0.059	0.027	1.000	1.429	0.08	0.04
	NR n78_Part27Q	DFT-QPSK100M	Top Side	0cm	633334	135	69	Ant0+1	DSI-1	1	50	17.50	16.01	0.01	0.511	0.220	1.000	1.409	0.72	0.31
	NR n78_Part27Q	DFT-QPSK100M	Bottom Side	0cm	633334	135	69	Ant0+1	DSI-0	1	50	25.50	23.95	0.08	0.050	0.015	1.000	1.429	0.07	0.02
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	2.9cm	633334	1	1	Ant0+1	DSI-0	1	50	25.50	23.95	0.00	0.356	0.181	1.000	1.429	0.51	0.26
	NR n78_Part27Q	DFT-QPSK100M	Top Side	2.9cm	633334	1	1	Ant0+1	DSI-0	1	50	25.50	23.95	0.00	0.304	0.157	1.000	1.429	0.43	0.22
	NR n78_Part27Q	DFT-QPSK100M	Left Side	1.9cm	633334	1	1	Ant0+1	DSI-0	1	50	25.50	23.95	0.08	0.239	0.125	1.000	1.429	0.34	0.18
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	2.9cm	633334	135	69	Ant0+1	DSI-0	1	50	25.50	23.95	0.01	0.333	0.151	1.000	1.429	0.48	0.22
	NR n78_Part27Q	DFT-QPSK100M	Top Side	2.9cm	633334	135	69	Ant0+1	DSI-0	1	50	25.50	23.95	0.05	0.278	0.123	1.000	1.429	0.40	0.18
	NR n78_Part27Q	DFT-QPSK100M	Left Side	1.9cm	633334	135	69	Ant0+1	DSI-0	1	50	25.50	23.95	0.01	0.222	0.102	1.000	1.429	0.32	0.15
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	1	1	Ant0+1	DSI-2	1	50	15.50	14.07	0.00	0.320	0.155	1.000	1.390	0.45	0.22
	NR n78_Part27Q	DFT-QPSK100M	Left Side	0cm	633334	1	1	Ant0+1	DSI-2	1	50	15.50	14.07	0.00	0.213	0.089	1.000	1.390	0.30	0.12
	NR n78_Part27Q	DFT-QPSK100M	Top Side	0cm	633334	1	1	Ant0+1	DSI-2	1	50	15.50	14.07	0.01	0.312	0.133	1.000	1.390	0.43	0.19
	NR n78_Part27Q	DFT-QPSK100M	Rear Face	0cm	633334	135	69	Ant0+1	DSI-2	1	50	15.50	14.05	0.08	0.336	0.161	1.000	1.396	0.47	0.23
	NR n78_Part27Q	DFT-QPSK100M	Left Side	0cm	633334	135	69	Ant0+1	DSI-2	1	50	15.50	14.05	0.03	0.219	0.091	1.000	1.396	0.31	0.13
	NR n78_Part27Q	DFT-QPSK100M	Top Side	0cm	633334	135	69	Ant0+1	DSI-2	1	50	15.50	14.05	0.01	0.223	0.095	1.000	1.396	0.31	0.13
	WLAN 2.4G	802.11b	Rear Face	0cm	1	-	-	Ant6	DSI-1/2	1	97.06	16.00	15.07	0.00	0.150	0.052	1.030	1.239	0.19	0.07
	WLAN 2.4G	802.11b	Left Side	0cm	1	-	-	Ant6	DSI-0	1	97.06	16.00	15.07	0.00	0.000	0.000	1.030	1.239	0.00	0.00
	WLAN 2.4G	802.11b	Right Side	0cm	1	-	-	Ant6	DSI-0	1	97.06	16.00	15.07	0.00	0.000	0.000	1.030	1.239	0.00	0.00
	WLAN 2.4G	802.11b	Top Side	0cm	1	-	-	Ant6	DSI-1/2	1	97.06	16.00	15.07	0.00	0.000	0.000	1.030	1.239	0.00	0.00
	WLAN 2.4G	802.11b	Bottom Side	0cm	1	-	-	Ant6	DSI-0	1	97.06	16.00	15.07	0.00	0.000	0.000	1.030	1.239	0.00	0.00
	WLAN 2.4G	802.11b	Rear Face	0cm	6	-	-	Ant6	DSI-1/2	1	97.06	16.00	14.86	-0.01	0.147	0.077	1.030	1.300	0.20	0.10
	WLAN 2.4G	802.11b	Rear Face	0cm	11	-	-	Ant6	DSI-1/2	1	97.06	16.00	14.89	-0.03	0.140	0.066	1.030	1.291	0.19	0.09
	WLAN 2.4G	802.11b	Rear Face	0cm	1	-	-	Ant7	DSI-1/2	1	97.06	15.50	14.72	-0.04	0.112	0.050	1.030	1.197	0.14	0.06
	WLAN 2.4G	802.11b	Left Side	0cm	1	-	-	Ant7	DSI-0	1	97.06	15.50	14.72	0.00	0.000	0.000	1.030	1.197	0.00	0.00
	WLAN 2.4G	802.11b	Right Side	0cm	1	-	-	Ant7	DSI-1/2	1	97.06	15.50	14.72	0.01	0.090	0.041	1.030	1.197	0.11	0.05
	WLAN 2.4G	802.11b	Top Side	0cm	1	-	-	Ant7	DSI-0	1	97.06	15.50	14.72	0.00	0.000	0.000	1.030	1.197	0.00	0.00
	WLAN 2.4G	802.11b	Bottom Side	0cm	1	-	-	Ant7	DSI-0	1	97.06	15.50	14.72	0.00	0.000	0.000	1.030	1.197	0.00	0.00
	WLAN 2.4G	802.11b	Rear Face	0cm	6	-	-	Ant7	DSI-1/2	1	97.06	15.50	14.28	0.04	0.120	0.073	1.030	1.324	0.16	0.10
	WLAN 2.4G	802.11b	Rear Face	0cm	11	-	-	Ant7	DSI-1/2	1	97.06	15.50	14.23	0.00	0.115	0.066	1.030	1.340	0.16	0.09
	WLAN 2.4G	802.11b	Rear Face	0cm	1	-	-	Ant6+7	DSI-1/2	1	97.06	19.00	17.91	0.04	0.157	0.076	1.030	1.285	0.21	0.10
	WLAN 2.4G	802.11b	Left Side	0cm	1	-	-	Ant6+7	DSI-0	1	97.06	19.00	17.91	0.00	0.000	0.000	1.030	1.285	0.00	0.00
	WLAN 2.4G	802.11b	Right Side	0cm	1	-	-	Ant6+7	DSI-1/2	1	97.06	19.00	17.91	0.00	0.068	0.034	1.030	1.285	0.09	0.05
	WLAN 2.4G	802.11b	Top Side	0cm	1	-	-	Ant6+7	DSI-1/2	1	97.06	19.00	17.91	0.06	0.099	0.046	1.030	1.285	0.13	0.06
	WLAN 2.4G	802.11b	Bottom Side	0cm	1	-	-	Ant6+7	DSI-0	1	97.06	19.00	17.91	0.00	0.000	0.000	1.030	1.285	0.00	0.00
P26	WLAN 2.4G	802.11b	Rear Face	0cm	6	-	-	Ant6+7	DSI-1/2	1	97.06	19.00	17.59	-0.01	0.169	0.082	1.030	1.384	0.24	0.12
	WLAN 2.4G	802.11b	Rear Face	0cm	11	-	-	Ant6+7	DSI-1/2	1	97.06	19.00	17.58	-0.02	0.144	0.071	1.030	1.387	0.21	0.10
	WLAN 5G	802.11ac VHT40	Rear Face	0cm	46	-	-	Ant6	DSI-1	1	99.45	12.00	10.87	0.06	0.730	0.197	1.006	1.297	0.95	0.26
	WLAN 5G	802.11ac VHT40	Left Side	0cm	46	-	-	Ant6	DSI-0	1	99.45	17.50	15.96	0.00	0.000	0.000	1.006	1.426	0.00	0.00
	WLAN 5G	802.11ac VHT40	Right Side	0cm	46	-	-	Ant6	DSI-0	1	99.45	17.50	15.96	0.00	0.103	0.023	1.006	1.426	0.15	0.03
	WLAN 5G	802.11ac VHT40	Top Side	0cm	46	-	-	Ant6	DSI-1	1	99.45	12.00	10.87	0.07	0.673	0.222	1.006	1.297	0.88	0.29
	WLAN 5G	802.11ac VHT40	Bottom Side	0cm	46	-	-	Ant6	DSI-0	1	99.45	17.50	15.96	0.00	0.000	0.000	1.006	1.426	0.00	0.00
P27	WLAN 5G	802.11ac VHT40	Rear Face	0cm	38	-	-	Ant6	DSI-1	1	99.45	12.00	10.64	0.01	0.857	0.234	1.006	1.368	1.18	0.32



FCC SAR Test Report



Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	WLAN SG	802.11ax HE80	Top Side	0cm	58	-	-	Ant6	DSI-1	1	99.45	13.00	11.15	0.02	0.854	0.216	1.006	1.531	1.01	0.33
	WLAN SG	802.11ax HE80	Bottom Side	0cm	58	-	-	Ant6	DSI-0	1	99.45	18.00	16.36	0.00	0.000	0.000	1.006	1.459	0.00	0.00
	WLAN SG	802.11ax HE80	Rear Face	2.9cm	58	-	-	Ant6	DSI-0	1	99.45	18.00	16.36	-0.04	0.055	0.013	1.006	1.459	0.08	0.02
	WLAN SG	802.11ax HE80	Top Side	2.9cm	58	-	-	Ant6	DSI-0	1	99.45	18.00	16.36	0.02	0.063	0.027	1.006	1.459	0.09	0.04
	WLAN SG	802.11ax HE80	Rear Face	0cm	58	-	-	Ant6	DSI-2	1	99.45	4.00	2.13	-0.08	0.120	0.030	1.006	1.538	0.19	0.05
	WLAN SG	802.11ax HE80	Top Side	0cm	58	-	-	Ant6	DSI-2	1	99.45	4.00	2.13	0.00	0.103	0.024	1.006	1.538	0.16	0.04
	WLAN SG	802.11ax HE80	Rear Face	0cm	58	-	-	Ant7	DSI-1	1	99.45	14.00	12.66	0.01	0.726	0.194	1.006	1.361	0.99	0.27
	WLAN SG	802.11ax HE80	Left Side	0cm	58	-	-	Ant7	DSI-0	1	99.45	18.00	16.29	0.00	0.000	0.000	1.006	1.483	0.00	0.00
	WLAN SG	802.11ax HE80	Right Side	0cm	58	-	-	Ant7	DSI-1	1	99.45	14.00	12.66	0.03	0.203	0.076	1.006	1.361	0.28	0.10
	WLAN SG	802.11ax HE80	Top Side	0cm	58	-	-	Ant7	DSI-0	1	99.45	18.00	16.29	0.00	0.000	0.000	1.006	1.483	0.00	0.00
	WLAN SG	802.11ax HE80	Bottom Side	0cm	58	-	-	Ant7	DSI-0	1	99.45	18.00	16.29	0.00	0.080	0.030	1.006	1.483	0.12	0.05
	WLAN SG	802.11ax HE80	Rear Face	2.9cm	58	-	-	Ant7	DSI-0	1	99.45	18.00	16.29	0.08	0.032	0.007	1.006	1.483	0.05	0.01
	WLAN SG	802.11ax HE80	Right Side	1.9cm	58	-	-	Ant7	DSI-0	1	99.45	18.00	16.29	0.00	0.000	0.000	1.006	1.483	0.00	0.00
	WLAN SG	802.11ax HE80	Rear Face	0cm	58	-	-	Ant7	DSI-2	1	99.45	7.00	5.67	0.04	0.135	0.034	1.006	1.358	0.18	0.05
	WLAN SG	802.11ax HE80	Right Side	0cm	58	-	-	Ant7	DSI-2	1	99.45	7.00	5.67	0.00	0.000	0.000	1.006	1.358	0.00	0.00
	WLAN SG	802.11ax HE80	Rear Face	0cm	58	-	-	Ant6+7	DSI-1	1	99.45	15.00	14.00	-0.04	0.698	0.189	1.006	1.259	0.88	0.24
	WLAN SG	802.11ax HE80	Left Side	0cm	58	-	-	Ant6+7	DSI-0	1	99.45	20.00	19.31	0.00	0.000	0.000	1.006	1.172	0.00	0.00
	WLAN SG	802.11ax HE80	Right Side	0cm	58	-	-	Ant6+7	DSI-1	1	99.45	15.00	14.00	0.05	0.151	0.051	1.006	1.259	0.19	0.07
	WLAN SG	802.11ax HE80	Top Side	0cm	58	-	-	Ant6+7	DSI-1	1	99.45	15.00	14.00	-0.02	0.634	0.168	1.006	1.259	0.80	0.21
	WLAN SG	802.11ax HE80	Bottom Side	0cm	58	-	-	Ant6+7	DSI-0	1	99.45	20.00	19.31	0.02	0.080	0.030	1.006	1.172	0.09	0.04
	WLAN SG	802.11ax HE80	Rear Face	2.9cm	58	-	-	Ant6+7	DSI-0	1	99.45	20.00	19.31	0.01	0.111	0.050	1.006	1.172	0.13	0.06
	WLAN SG	802.11ax HE80	Right Side	1.9cm	58	-	-	Ant6+7	DSI-0	1	99.45	20.00	19.31	-0.03	0.161	0.069	1.006	1.172	0.19	0.08
	WLAN SG	802.11ax HE80	Top Side	2.9cm	58	-	-	Ant6+7	DSI-0	1	99.45	20.00	19.31	0.00	0.100	0.043	1.006	1.172	0.12	0.05
	WLAN SG	802.11ax HE80	Rear Face	0cm	58	-	-	Ant6+7	DSI-2	1	99.45	7.00	5.16	-0.17	0.129	0.032	1.006	1.528	0.20	0.05
	WLAN SG	802.11ax HE80	Right Side	0cm	58	-	-	Ant6+7	DSI-2	1	99.45	7.00	5.16	0.00	0.000	0.000	1.006	1.528	0.00	0.00
	WLAN SG	802.11ax HE80	Top Side	0cm	58	-	-	Ant6+7	DSI-2	1	99.45	7.00	5.16	0.01	0.100	0.048	1.006	1.528	0.15	0.07
	WLAN SG	802.11ac VHT80	Rear Face	0cm	106	-	-	Ant6	DSI-1	1	99.63	13.50	11.63	0.02	0.671	0.185	1.004	1.538	1.04	0.29
	WLAN SG	802.11ac VHT80	Left Side	0cm	106	-	-	Ant6	DSI-0	1	99.63	17.00	15.15	0.00	0.000	0.000	1.004	1.531	0.00	0.00
	WLAN SG	802.11ac VHT80	Right Side	0cm	106	-	-	Ant6	DSI-0	1	99.63	17.00	15.15	0.08	0.137	0.054	1.004	1.531	0.21	0.08
	WLAN SG	802.11ac VHT80	Top Side	0cm	106	-	-	Ant6	DSI-1	1	99.63	13.50	11.63	-0.14	0.665	0.175	1.004	1.538	1.03	0.27
	WLAN SG	802.11ac VHT80	Bottom Side	0cm	106	-	-	Ant6	DSI-0	1	99.63	17.00	15.15	0.00	0.000	0.000	1.004	1.531	0.00	0.00
	WLAN SG	802.11ac VHT80	Rear Face	0cm	122	-	-	Ant6	DSI-1	1	99.63	13.50	12.70	0.02	0.608	0.170	1.004	1.202	0.73	0.21
	WLAN SG	802.11ac VHT80	Rear Face	0cm	138	-	-	Ant6	DSI-1	1	99.63	13.50	12.86	-0.01	0.614	0.177	1.004	1.159	0.71	0.21
	WLAN SG	802.11ac VHT80	Top Side	0cm	122	-	-	Ant6	DSI-1	1	99.63	13.50	12.70	0.15	0.598	0.177	1.004	1.202	0.72	0.21
	WLAN SG	802.11ac VHT80	Top Side	0cm	138	-	-	Ant6	DSI-1	1	99.63	13.50	12.86	0.00	0.632	0.183	1.004	1.159	0.74	0.21
	WLAN SG	802.11ac VHT80	Rear Face	2.9cm	106	-	-	Ant6	DSI-0	1	99.63	17.00	15.15	0.01	0.059	0.015	1.004	1.531	0.09	0.02
	WLAN SG	802.11ac VHT80	Top Side	2.9cm	106	-	-	Ant6	DSI-0	1	99.63	17.00	15.15	0.08	0.057	0.014	1.004	1.531	0.09	0.02
	WLAN SG	802.11ac VHT80	Rear Face	0cm	106	-	-	Ant6	DSI-2	1	99.63	6.00	4.62	-0.03	0.131	0.036	1.004	1.374	0.18	0.05
	WLAN SG	802.11ac VHT80	Top Side	0cm	106	-	-	Ant6	DSI-2	1	99.63	6.00	4.62	0.00	0.125	0.033	1.004	1.374	0.17	0.05
	WLAN SG	802.11ac VHT80	Rear Face	0cm	122	-	-	Ant6	DSI-2	1	99.63	7.00	5.81	0.09	0.116	0.031	1.004	1.315	0.15	0.04
	WLAN SG	802.11ac VHT80	Rear Face	0cm	138	-	-	Ant6	DSI-2	1	99.63	7.00	6.03	-0.03	0.121	0.032	1.004	1.250	0.15	0.04
	WLAN SG	802.11ac VHT80	Rear Face	0cm	106	-	-	Ant7	DSI-1	1	99.63	14.50	13.50	-0.03	0.670	0.172	1.004	1.259	0.85	0.22
	WLAN SG	802.11ac VHT80	Left Side	0cm	106	-	-	Ant7	DSI-0	1	99.63	18.00	16.20	0.00	0.000	0.000	1.004	1.514	0.00	0.00
	WLAN SG	802.11ac VHT80	Right Side	0cm	106	-	-	Ant7	DSI-1	1	99.63	14.50	13.50	0.01	0.181	0.066	1.004	1.259	0.23	0.08
	WLAN SG	802.11ac VHT80	Top Side	0cm	106	-	-	Ant7	DSI-0	1	99.63	18.00	16.20	0.00	0.000	0.000	1.004	1.514	0.00	0.00
	WLAN SG	802.11ac VHT80	Bottom Side	0cm	106	-	-	Ant7	DSI-0	1	99.63	18.00	16.20	0.06	0.020	0.007	1.004	1.514	0.03	0.01
	WLAN SG	802.11ac VHT80	Rear Face	0cm	122	-	-	Ant7	DSI-1	1	99.63	14.50	13.18	-0.12	0.826	0.215	1.004	1.355	1.12	0.29
P29	WLAN SG	802.11ac VHT80	Rear Face	0cm	138	-	-	Ant7	DSI-1	1	99.63	14.50	12.99	0.05	0.799	0.211	1.004	1.416	1.14	0.30
	WLAN SG	802.11ac VHT80	Rear Face	2.9cm	122	-	-	Ant7	DSI-0	1	99.63	18.00	16.15	0.00	0.000	0.000	1.004	1.531	0.00	0.00
	WLAN SG	802.11ac VHT80	Right Side	1.9cm	122	-	-	Ant7	DSI-0	1	99.63	18.00	16.15	0.00	0.000	0.000	1.004	1.531	0.00	0.00
	WLAN SG	802.11ac VHT80	Rear Face	0cm	106	-	-	Ant7	DSI-2	1	99.63	7.00	5.84	-0.02	0.104	0.024	1.004	1.306	0.14	0.03
	WLAN SG	802.11ac VHT80	Right Side	0cm	106	-	-	Ant7	DSI-2	1	99.63	7.00	5.84	0.00	0.000	0.000	1.004	1.306	0.00	0.00
	WLAN SG	802.11ac VHT80	Rear Face	0cm	122	-	-	Ant7	DSI-2	1	99.63	7.00	5.80	0.08	0.157	0.039	1.004	1.318	0.21	0.05
	WLAN SG	802.11ac VHT80	Rear Face	0cm	138	-	-	Ant7	DSI-2	1	99.63	7.00	5.64	-0.19	0.151	0.040	1.004	1.368	0.21	0.06
	WLAN SG	802.11ac VHT80	Rear Face	0cm	122	-	-	Ant6+7	DSI-1	1	99.63	16.50	15.76	-0.04	0.658	0.182	1.004	1.186	0.78	0.22
	WLAN SG	802.11ac VHT80	Left Side	0cm	122	-	-	Ant6+7	DSI-0	1	99.63	20.00	19.24	0.00	0.000	0.000	1.004	1.191	0.00	0.00
	WLAN SG	802.11ac VHT80	Right Side	0cm	122	-	-	Ant6+7	DSI-1	1	99.63	16.50	15.76	0.00	0.000	0.000	1.004	1.186	0.00	0.00
	WLAN SG	802.11ac VHT80	Top Side	0cm	122	-	-	Ant6+7	DSI-1	1	99.63	16.50	15.76	0.10	0.644	0.206	1.004	1.186	0.77	0.25
	WLAN SG	802.11ac VHT80	Bottom Side	0cm	122	-	-	Ant6+7	DSI-0	1	99.63	20.00	19.24	0.00	0.000	0.000	1.004	1.191	0.00	0.00
	WLAN SG	802.11ac VHT80	Rear Face	0cm	106	-	-	Ant6+7	DSI-1	1	99.63	16.50	15.04	0.00	0.652	0.183	1.004	1.400	0.92	0.26
	WLAN SG	802.11ac VHT80	Rear Face	0cm	138	-	-	Ant6+7	DSI-1	1	99.63	16.50	15.74	-0.07	0.608	0.176	1.004	1.191	0.73	0.21
	WLAN SG	802.11ac VHT80	Rear Face	2.9cm	122	-	-	Ant6+7	DSI-0	1	99.63	20.00	19.24	0.00	0.120	0.054	1.004	1.191	0.14	0.07
	WLAN SG	802.11ac VHT80	Right Side	1.9cm	122	-	-	Ant6+7	DSI-0	1	99.63	20.00	19.24	0.03	0.130	0.058	1.004	1.191	0.16	0.07
	WLAN SG	802.11ac VHT80	Top Side	2.9cm	122	-	-	Ant6+7	DSI-0	1	99.63	20.00	19.24	0.01	0.137	0.032	1.004	1.191	0.16	0.04
	WLAN SG	802.11ac VHT80	Rear Face	0cm	122	-	-	Ant6+7	DSI-2	1	99.63	10.00	8.92	-0.08	0.120	0.030	1.004	1.282	0.15	0.04
	WLAN SG	802.11ac VHT80	Right Side	0cm	122	-	-	Ant6+7	DSI-2	1	99.63	10.00	8.92	0.00</						

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB Size	RB Offset	Antenna	Power State	Battery	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled 1g SAR (W/kg)	Scaled 10g SAR (W/kg)
	WLAN 5G	802.11n HT40	Rear Face	0cm	151	-	-	Ant6+7	DSI-1	1	99.63	18.00	15.02	0.02	0.594	0.178	1.004	1.253	0.75	0.22
	WLAN 5G	802.11n HT40	Rear Face	2.9cm	159	-	-	Ant6+7	DSI-0	1	99.63	20.00	18.84	0.01	0.111	0.048	1.004	1.306	0.15	0.06
	WLAN 5G	802.11n HT40	Right Side	1.9cm	159	-	-	Ant6+7	DSI-0	1	99.63	20.00	18.84	0.05	0.100	0.019	1.004	1.306	0.13	0.03
	WLAN 5G	802.11n HT40	Top Side	2.9cm	159	-	-	Ant6+7	DSI-0	1	99.63	20.00	18.84	0.01	0.055	0.009	1.004	1.306	0.07	0.01
	WLAN 5G	802.11n HT40	Rear Face	0cm	159	-	-	Ant6+7	DSI-2	1	99.63	10.00	8.52	-0.04	0.126	0.035	1.004	1.406	0.18	0.05
	WLAN 5G	802.11n HT40	Right Side	0cm	159	-	-	Ant6+7	DSI-2	1	99.63	10.00	8.52	0.00	0.000	0.000	1.004	1.406	0.00	0.00
	WLAN 5G	802.11n HT40	Top Side	0cm	159	-	-	Ant6+7	DSI-2	1	99.63	10.00	8.52	0.08	0.123	0.035	1.004	1.406	0.17	0.05
	WLAN 5G	802.11n HT40	Rear Face	0cm	151	-	-	Ant6+7	DSI-2	1	99.63	10.00	8.83	0.04	0.122	0.033	1.004	1.309	0.16	0.04
	BT	GFSK	Rear Face	0cm	39	-	-	Ant6	DSI-1	1	77.07	21.00	20.40	-0.01	0.699	0.329	1.298	1.148	1.04	0.49
	BT	GFSK	Left Side	0cm	39	-	-	Ant6	DSI-0	1	77.07	21.00	20.40	0.00	0.000	0.000	1.298	1.148	0.00	0.00
	BT	GFSK	Right Side	0cm	39	-	-	Ant6	DSI-0	1	77.07	21.00	20.40	0.03	0.070	0.036	1.298	1.148	0.10	0.05
	BT	GFSK	Top Side	0cm	39	-	-	Ant6	DSI-1	1	77.07	21.00	20.40	0.02	0.722	0.338	1.298	1.148	1.08	0.50
	BT	GFSK	Bottom Side	0cm	39	-	-	Ant6	DSI-0	1	77.07	21.00	20.40	0.00	0.000	0.000	1.298	1.148	0.00	0.00
	BT	GFSK	Rear Face	0cm	0	-	-	Ant6	DSI-1	1	77.07	21.00	20.36	0.02	0.748	0.356	1.298	1.159	1.13	0.54
	BT	GFSK	Rear Face	0cm	78	-	-	Ant6	DSI-1	1	77.07	21.00	20.18	-0.16	0.566	0.248	1.298	1.208	0.89	0.39
	BT	GFSK	Top Side	0cm	0	-	-	Ant6	DSI-1	1	77.07	21.00	20.36	0.01	0.701	0.322	1.298	1.159	1.05	0.48
	BT	GFSK	Top Side	0cm	78	-	-	Ant6	DSI-1	1	77.07	21.00	20.18	0.07	0.635	0.287	1.298	1.208	1.00	0.45
	BT	GFSK	Rear Face	2.9cm	39	-	-	Ant6	DSI-0	1	77.07	21.00	20.40	0.00	0.000	0.000	1.298	1.148	0.00	0.00
	BT	GFSK	Top Side	2.9cm	39	-	-	Ant6	DSI-0	1	77.07	21.00	20.40	0.01	0.074	0.043	1.298	1.148	0.11	0.06
	BT	GFSK	Rear Face	0cm	39	-	-	Ant6	DSI-2	1	77.07	13.50	12.46	0.00	0.095	0.041	1.298	1.271	0.16	0.07
	BT	GFSK	Top Side	0cm	39	-	-	Ant6	DSI-2	1	77.07	13.50	12.46	0.04	0.093	0.036	1.298	1.271	0.15	0.06
	BT	GFSK	Rear Face	0cm	0	-	-	Ant6	DSI-2	1	77.07	13.50	12.03	0.01	0.087	0.037	1.298	1.403	0.16	0.07
	BT	GFSK	Rear Face	0cm	78	-	-	Ant6	DSI-2	1	77.07	13.50	11.83	-0.11	0.079	0.035	1.298	1.469	0.15	0.07
P31	BT	GFSK	Rear Face	0cm	39	-	-	Ant7	DSI-1	1	77.07	19.00	18.23	0.00	0.732	0.325	1.298	1.194	1.13	0.50
	BT	GFSK	Left Side	0cm	39	-	-	Ant7	DSI-0	1	77.07	19.00	18.23	0.00	0.000	0.000	1.298	1.194	0.00	0.00
	BT	GFSK	Right Side	0cm	39	-	-	Ant7	DSI-1	1	77.07	19.00	18.23	0.05	0.541	0.251	1.298	1.194	0.84	0.39
	BT	GFSK	Top Side	0cm	39	-	-	Ant7	DSI-0	1	77.07	19.00	18.23	0.00	0.000	0.000	1.298	1.194	0.00	0.00
	BT	GFSK	Bottom Side	0cm	39	-	-	Ant7	DSI-0	1	77.07	19.00	18.23	0.03	0.154	0.076	1.298	1.194	0.24	0.12
	BT	GFSK	Rear Face	0cm	0	-	-	Ant7	DSI-1	1	77.07	19.00	18.07	0.01	0.686	0.309	1.298	1.239	1.10	0.50
	BT	GFSK	Rear Face	0cm	78	-	-	Ant7	DSI-1	1	77.07	19.00	17.10	0.01	0.413	0.188	1.298	1.549	0.83	0.38
	BT	GFSK	Right Side	0cm	0	-	-	Ant7	DSI-1	1	77.07	19.00	18.07	-0.07	0.502	0.221	1.298	1.239	0.81	0.36
	BT	GFSK	Right Side	0cm	78	-	-	Ant7	DSI-1	1	77.07	19.00	17.10	0.05	0.357	0.148	1.298	1.549	0.72	0.30
	BT	GFSK	Rear Face	2.9cm	39	-	-	Ant6	DSI-0	1	77.07	19.00	18.23	0.00	0.000	0.000	1.298	1.194	0.00	0.00
	BT	GFSK	Right Side	1.9cm	39	-	-	Ant6	DSI-0	1	77.07	19.00	18.23	0.09	0.050	0.029	1.298	1.194	0.08	0.05
	BT	GFSK	Rear Face	0cm	39	-	-	Ant7	DSI-2	1	77.07	10.00	9.25	0.01	0.088	0.035	1.298	1.189	0.14	0.05
	BT	GFSK	Right Side	0cm	39	-	-	Ant7	DSI-2	1	77.07	10.00	9.25	-0.10	0.071	0.031	1.298	1.189	0.11	0.05
	BT	GFSK	Rear Face	0cm	0	-	-	Ant7	DSI-2	1	77.07	10.00	8.76	-0.07	0.079	0.034	1.298	1.330	0.14	0.06
	BT	GFSK	Rear Face	0cm	78	-	-	Ant7	DSI-2	1	77.07	10.00	8.30	0.06	0.063	0.028	1.298	1.479	0.12	0.05

4.6.3 SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Freq. (MHz)	Battery	Power Drift (dB)	Measured 10g SAR (W/kg)	Scaled 10g SAR (W/kg)
P32	NFC	ASK	Rear Face	0cm	13.56MHz	1	0.03	0.022	0.02
	NFC	ASK	Left Side	0cm	13.56MHz	1	0.00	0.000	0.00
	NFC	ASK	Right Side	0cm	13.56MHz	1	0.00	0.000	0.00
	NFC	ASK	Top Side	0cm	13.56MHz	1	0.00	0.000	0.00
	NFC	ASK	Bottom Side	0cm	13.56MHz	1	-0.09	0.000	0.00

4.6.4 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Mode	Test Position	Gap (cm)	Ch.	Ant.	Original Repeated SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
LTE 7	QPSK20M_1_50	Rear Face	0cm	20850	Ant0	1.300	1.255	1.036	N/A	N/A	N/A	N/A
LTE 13	QPSK10M_1_0	Rear Face	0cm	23230	Ant0	1.266	1.208	1.048	N/A	N/A	N/A	N/A
LTE 25/2	QPSK20M_1_50	Rear Face	0cm	26140	Ant0	1.283	1.226	1.046	N/A	N/A	N/A	N/A
LTE 26/5	QPSK15M_1_0	Rear Face	0cm	26765	Ant0	1.301	1.247	1.043	N/A	N/A	N/A	N/A
LTE 42	QPSK20M_1_0	Rear Face	0cm	43340	Ant1	1.303	1.255	1.038	N/A	N/A	N/A	N/A
LTE 48	QPSK20M_1_50	Rear Face	0cm	55340	Ant1	1.237	1.213	1.020	N/A	N/A	N/A	N/A
LTE 106	QPSK3M_1_0	Rear Face	0cm	134322	Ant0	1.262	1.209	1.044	N/A	N/A	N/A	N/A
NR n30	QPSK10M_25_14	Rear Face	0cm	462000	Ant0	1.281	1.232	1.040	N/A	N/A	N/A	N/A
NR n66	QPSK30M_80_40	Rear Face	0cm	353000	Ant0	1.314	1.257	1.045	N/A	N/A	N/A	N/A
NR n77	QPSK100M_270_0	Rear Face	0cm	633334	Ant0+1	1.294	1.261	1.026	N/A	N/A	N/A	N/A
WLAN 5.2G	802.11ac VHT40	Rear Face	0cm	38	Ant6	1.179	1.097	1.075	N/A	N/A	N/A	N/A
WLAN 5.3G	802.11ax HE80	Rear Face	0cm	58	Ant6	1.103	1.052	1.048	N/A	N/A	N/A	N/A
WLAN 5.6G	802.11ac VHT80	Rear Face	0cm	138	Ant7	1.136	1.031	1.102	N/A	N/A	N/A	N/A
WLAN 5.8G	802.11n HT40	Rear Face	0cm	151	Ant7	0.959	0.879	1.091	N/A	N/A	N/A	N/A
BT	GFSK	Rear Face	0cm	39	Ant7	1.134	1.092	1.038	N/A	N/A	N/A	N/A

4.6.5 Simultaneous Multi-band Transmission Evaluation

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Body	Extremity
1	WWAN + WLAN 2.4G MIMO	Yes	Yes
2	WWAN + WLAN 5G MIMO + BT Ant6	Yes	Yes
3	WWAN + WLAN 5G MIMO + BT Ant7	Yes	Yes
4	WWAN + WLAN 6G MIMO + BT Ant6	Yes	Yes
5	WWAN + WLAN 6G MIMO + BT Ant7	Yes	Yes
6	WWAN + WLAN 2.4G Ant6 + WLAN 5G Ant7+BT Ant7	Yes	Yes
7	WWAN + WLAN 2.4G Ant7 + WLAN 5G Ant6 + BT Ant6	Yes	Yes
8	WWAN + WLAN 2.4G Ant6 + WLAN 6G Ant7+BT Ant7	Yes	Yes
9	WWAN + WLAN 2.4G Ant7 + WLAN 6G Ant6 + BT Ant6	Yes	Yes
10	WWAN + WLAN 2.4G MIMO + NFC		Yes
11	WWAN + WLAN 5G MIMO + BT Ant6 + NFC		Yes
12	WWAN + WLAN 5G MIMO + BT Ant7 + NFC		Yes
13	WWAN + WLAN 6G MIMO + BT Ant6 + NFC		Yes
14	WWAN + WLAN 6G MIMO + BT Ant7 + NFC		Yes
15	WWAN + WLAN 2.4G Ant6 + WLAN 5G Ant7+BT Ant7 + NFC		Yes
16	WWAN + WLAN 2.4G Ant7 + WLAN 5G Ant6 + BT Ant6 + NFC		Yes
17	WWAN + WLAN 2.4G Ant6 + WLAN 6G Ant7+BT Ant7 + NFC		Yes
18	WWAN + WLAN 2.4G Ant7 + WLAN 6G Ant6 + BT Ant6 + NFC		Yes

<SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

Note:

- For the SAR and PD of WLAN 6G in the simultaneous transmission evaluation, please refer to the WLAN 6G SAR test report (Report Number: SFCVSF-WTW-P26050591, Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan BranchLin Kou LaboratoriesLab)

The detail sim-tx analysis please refer to Appendix E.

Test Engineer : Jiawei Li, and Zixiao Xia

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Next Cal. Date
System Validation Dipole	SPEAG	CLA13	1036	Jul. 08, 2025	Jul. 07, 2026
System Validation Dipole	SPEAG	D750V3	1200	Nov. 07, 2024	Nov. 05, 2026
System Validation Dipole	SPEAG	D835V2	4d265	Nov. 04, 2024	Nov. 02, 2026
System Validation Dipole	SPEAG	D900V2	1d111	Nov. 06, 2024	Nov. 04, 2026
System Validation Dipole	SPEAG	D1750V2	1176	Nov. 06, 2024	Nov. 04, 2026
System Validation Dipole	SPEAG	D1950V3	1229	Nov. 07, 2024	Nov. 05, 2026
System Validation Dipole	SPEAG	D2450V2	1048	Nov. 06, 2024	Nov. 04, 2026
System Validation Dipole	SPEAG	D2550V2	1022	Jul. 04, 2025	Jul. 03, 2026
System Validation Dipole	SPEAG	D3500V2	1111	Nov. 11, 2024	Nov. 09, 2026
System Validation Dipole	SPEAG	D3700V2	1082	Nov. 08, 2024	Nov. 06, 2026
System Validation Dipole	SPEAG	D3900V2	1055	Nov. 07, 2024	Nov. 05, 2026
System Validation Dipole	SPEAG	D5GHzV2	1315	Nov. 05, 2024	Nov. 03, 2026
Data Acquisition Electronics	SPEAG	DAE4	1779	Jul. 08, 2025	Jul. 07, 2026
Data Acquisition Electronics	SPEAG	DAE4	1288	Jul. 17, 2025	Jul. 16, 2026
Dosimetric E-Field Probe	SPEAG	EX3DV4	7801	Jul. 22, 2025	Jul. 21, 2026
Dosimetric E-Field Probe	SPEAG	EX3DV4	7802	Jul. 21, 2025	Jul. 20, 2026
Magnetic Field Probe	SPEAG	DAK-12	1181	Jul. 07, 2025	Jul. 05, 2027
Magnetic Field Probe	SPEAG	DAK-3.5	1119	Feb. 19, 2026	Feb. 17, 2028
Radio Communication Analyzer	Rohde&Schwarz	CMW500	169420	Mar. 21, 2025	Mar. 19, 2027
Radio Communication Analyzer	Rohde&Schwarz	CMX500	101454	Mar. 21, 2025	Mar. 19, 2027
ESG Analog Signal Generator	Rohde&Schwarz	SMB100A	183313	Oct. 31, 2025	Oct. 29, 2027
Power Meter	Rohde&Schwarz	NRX	1069082	Feb. 13, 2025	Feb. 11, 2027
Power Sensor	Rohde&Schwarz	NRP6A	101905	Feb. 13, 2025	Feb. 11, 2027
Power Sensor	Rohde&Schwarz	NRP6A	101904	Feb. 13, 2025	Feb. 11, 2027
Power Amplifier	Mini-Circuits	ZVA-183W-S+	111802307	N/A	N/A
Digital Thermometer	LINE SEIKI	DTM3000	3798	Jul. 16, 2024	Jul. 14, 2026
Temp.&Humi.Recorder	DeLi	DeLi	SAR2020009	Aug. 15, 2025	Aug. 13, 2027

Note:

- Referring to KDB 865664 D01 v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipole are also not physically damaged, or repaired during the interval. The dipole justification can be found in appendix C.
The return loss is < -20dB, within 20% of prior calibration, the impedance is with 5ohm of prior calibration.

6. Measurement Uncertainty

DASY Uncertainty Budget According to IEEE 1528-2013 (4 MHz - 6 GHz range)								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	6.65	N	1	1	1	6.7	6.7	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	4.3	N	1	1	1	4.3	4.3	35
Device Holder	4.9	N	1	1	1	4.9	4.9	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.16	N	1	0.78	0.71	0.1	0.1	∞
Liquid Conductivity (target)	10.0	R	1.732	0.78	0.71	4.5	4.1	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.64	R	1.732	0.78	0.71	1.6	1.5	∞
Liquid Permittivity Repeatability	0.08	N	1	0.23	0.26	0.0	0.0	∞
Liquid Permittivity (target)	10.0	R	1.732	0.23	0.26	1.3	1.5	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	1.78	R	1.732	0.23	0.26	0.2	0.3	∞
Combined Std. Uncertainty						14.0%	13.9%	624
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						28.0%	27.7%	

7. Information on the Testing Laboratories

We, Boomwave Test (Shenzhen) Co., Ltd., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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[Email: shimin.wang@boomwavelab.com](mailto:shimin.wang@boomwavelab.com)

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.



Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.



Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.

Appendix D. Conducted RF Output Power Table

The detailed power table are shown as follows.



Appendix E. Simultaneous Multi-band Transmission Evaluation

The simultaneous transmission evaluation and analysis is shown as below.



FCC SAR Test Report



Appendix F. Photographs of EUT and Setup