

FCC SAR TEST REPORT

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Product Name: POS Terminal

FCC ID: 2AM6U-NA750G

Standard(s): 47 CFR Part 2(2.1093)

Report Number: 2502Y81547E-20A

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The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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SAR TEST RESULTS SUMMARY

Body SAR:

Mode		Max. Reported SAR Level(s) (W/kg)	Limit (W/kg)
LTE Band 7	1g Body SAR	0.78	1.6
LTE Band 12&17	1g Body SAR	0.47	
LTE Band 13	1g Body SAR	0.60	
LTE Band 14	1g Body SAR	0.50	
LTE Band 25&2	1g Body SAR	0.65	
LTE Band 26&5	1g Body SAR	0.40	
LTE Band 41	1g Body SAR	0.53	
LTE Band 66&4	1g Body SAR	0.46	
LTE Band 71	1g Body SAR	0.37	
WLAN 2.4G	1g Body SAR	0.38	
WLAN 5.2G	1g Body SAR	0.35	
WLAN 5.3G	1g Body SAR	0.46	
WLAN 5.6G	1g Body SAR	0.91	
WLAN 5.8G	1g Body SAR	0.97	
Bluetooth	1g Body SAR	0.09	
Simultaneous	1g Body SAR	1.57	
		1.57 (Hotspot)	

Limb SAR:

Mode		Max. Reported SAR Level(s) (W/kg)	Limit (W/kg)
LTE Band 7	10g Extremity SAR	2.77	4.0
LTE Band 12&17	10g Extremity SAR	0.50	
LTE Band 13	10g Extremity SAR	0.42	
LTE Band 14	10g Extremity SAR	0.45	
LTE Band 25&2	10g Extremity SAR	2.78	
LTE Band 26&5	10g Extremity SAR	0.32	
LTE Band 41	10g Extremity SAR	1.60	
LTE Band 66&4	10g Extremity SAR	2.52	
LTE Band 71	10g Extremity SAR	0.42	
WLAN 2.4G	10g Extremity SAR	0.55	
WLAN 5.2G	10g Extremity SAR	0.81	
WLAN 5.3G	10g Extremity SAR	0.75	
WLAN 5.6G	10g Extremity SAR	1.49	
WLAN 5.8G	10g Extremity SAR	1.22	
Bluetooth	10g Extremity SAR	0.05	
Simultaneous	10g Extremity SAR	3.33	

Applicable Standards	FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devices
	IEEE 1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
	RF Exposure Procedures: TCB Workshop April 2019
	KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 941225 D05 SAR for LTE Devices v02r05 KDB 941225 D06 Hotspot Mode v02r01 KDB 248227 D01 802.11 Wi-Fi SAR v02r02
Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in FCC 47 CFR part 2.1093 and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures. The results and statements contained in this report pertain only to the device(s) evaluated.	

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502Y81547E-20A	Original Report	2025/12/10

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	POS Terminal
EUT Model:	N750
Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	None
Proximity Sensor:	None
Carrier Aggregation:	None
Operation Modes:	FDD-LTE, TDD-LTE, WLAN, Bluetooth, BLE and NFC
Frequency Band:	LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX)
	LTE Band 4: 1710-1755 MHz(TX); 2110-2155 MHz(RX)
	LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX)
	LTE Band 7: 2500-2570 MHz(TX); 2620-2690 MHz(RX)
	LTE Band 12: 699-716 MHz(TX); 729-746 MHz(RX)
	LTE Band 13: 777-787 MHz(TX); 746-756 MHz(RX)
	LTE Band 14: 788-798 MHz(TX); 758-768 MHz(RX)
	LTE Band 17: 704-716 MHz(TX); 734-746 MHz(RX)
	LTE Band 25: 1850-1915 MHz(TX); 1930-1995 MHz(RX)
	LTE Band 26: 814-849 MHz(TX); 859-894 MHz(RX)
	LTE Band 41: 2496-2690 MHz(TX); 2496-2690 MHz (RX)
	LTE Band 66: 1710-1780 MHz(TX); 2110-2200 MHz(RX)
	LTE Band 71: 663-698 MHz(TX); 617-652 MHz(RX)
	Wi-Fi 2.4G: 2412-2462 MHz/2422-2452 MHz (TX/RX)
	Wi-Fi 5.2G: 5150-5250 MHz(TX/RX)
	Wi-Fi 5.3G: 5250-5350 MHz(TX/RX)
	Wi-Fi 5.6G: 5470-5725 MHz(TX/RX)
	Wi-Fi 5.8G: 5725-5850 MHz(TX/RX)
	Bluetooth: 2402-2480MHz(TX/RX)
	BLE 1M:2402-2480MHz(TX/RX)
	NFC:13.56MHz
Dimensions (L*W*H):	150mm (L) * 74mm (W) * 19mm (H) (The dimensions of each configuration are the same)
Rated Input Voltage:	DC 3.8V from Rechargeable Battery
Serial Number:	3BFH-1 (Configuration 1#) 3BFH-2 (Configuration 2#) 3BFH-3 (Configuration 3#) 3BFH-4 (Configuration 4#)
Normal Operation:	Body and Limbs
EUT Received Date:	2025/10/16
Test Date:	2025/11/17 ~ 2025/11/25
EUT Received Status:	Good

Product Configuration:

Configuration	Professional scanning module	External charging IC	LCD 1#	LCD 2#	LCD 3#	Rear camera 1#	Rear camera 2#
Configuration 1#	×	√	√	×	×	√	×
Configuration 2#	√	×	×	√	×	×	√
Configuration 3#	√	×	×	×	√	×	√
Configuration 4#	×	×	√	×	×	×	√

Optional Material

Material Description	Manufacturer	Parameter
Battery 1#	EVE ENERGY CO., LTD	3.8V 3600mAh
Battery 2#	GuangDong Fenghua New Energy Co.,Ltd.	3.8V 3600 mAh
Battery 3#	GuangDong Fenghua New Energy Co.,Ltd.	3.8V 5200 mAh
LCD 1#	/	Model: CF1133
LCD 2#	/	Model: GT2863
LCD 3#	/	Model: incell
Rear camera 1#	/	Model: GC5035
Rear camera 2#	/	Model: GC05A2

Note: The product has four Configurations and three batteries, Pro-tested the Configurations 1#/2#/3#/4# devices with three batteries 1#/2#/3#, the SAR value of Configuration 1# with battery 1# is higher, so the SAR was selected Configuration 1# with battery 1# for full testing, Configuration 2#/3#/4# with battery 1# were performed spot check.

2. REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

2.1 SAR Limits

FCC Limit

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	1.6	8
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4	20

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that maybe incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6 W/kg(FCC) for 1g Body SAR , limit 4 W/kg(FCC) for 10g Extremity SAR applied to the EUT.

2.2 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. :829273, the FCC Designation No. : CN5044.

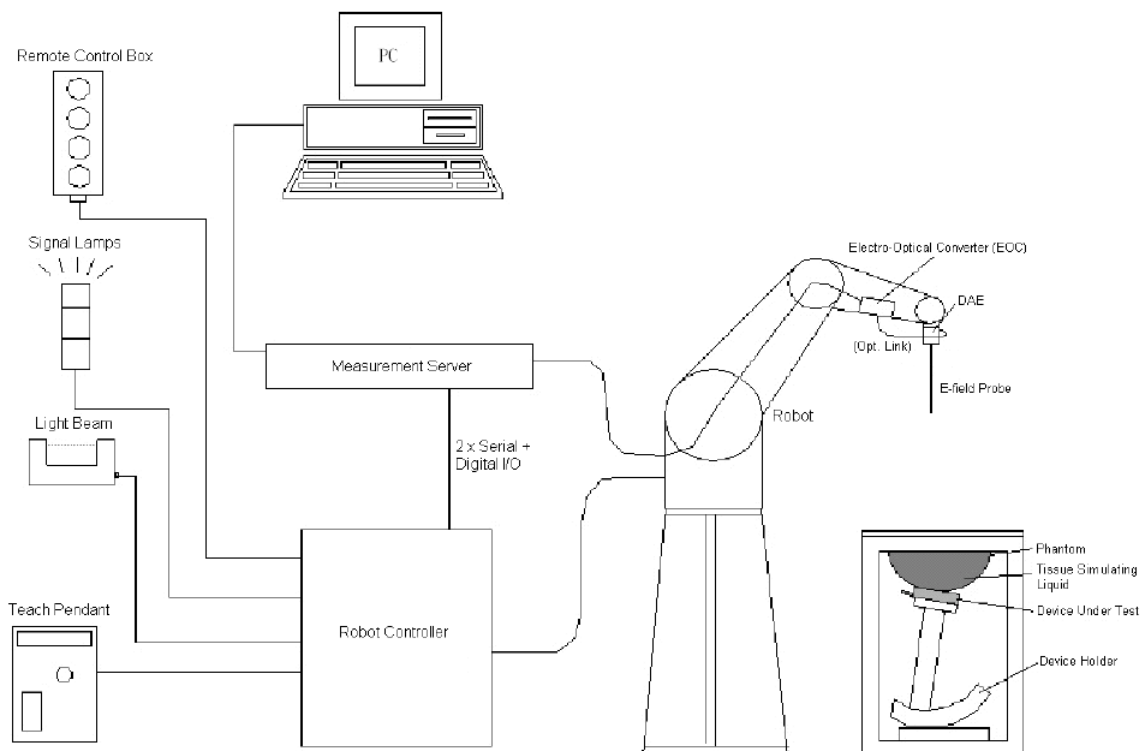
3. DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY5 System Description

The DASY5 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.



Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200M Ω ; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

Frequency	4 MHz–10 GHz Linearity: ± 0.2 dB (30 MHz–10 GHz)
Directivity(typical)	± 0.1 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g – > 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
Applications	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52, DASY6, DASY8, EASY6, EASY4/MRI

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness

increases to 6 mm). The phantom has three measurement areas:

- _ Left Head
- _ Right Head
- _ Flat phantom

The phantom table for the DASY systems based on the robots have the size of 100 x 50 x 85 cm (L x W x H). For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)



A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible.

Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The above mentioned robots are controlled by the Staubli CS7MB robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm² step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm, with the side length of the 10g cube is 21.5mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528:2013

Recommended Tissue Dielectric Parameters for Head liquid

Table 3—Target dielectric properties of head tissue-equivalent material in the 300 MHz to 6000 MHz frequency range

Frequency (MHz)	Relative permittivity (ϵ_r)	Conductivity (σ) (S/m)
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1500	40.4	1.23
1640	40.2	1.31
1750	40.1	1.37
1800	40.0	1.40
1900	40.0	1.40
2000	40.0	1.40
2100	39.8	1.49
2300	39.5	1.67
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27
6000	35.1	5.48

NOTE—For convenience, permittivity and conductivity values at some frequencies that are not part of the original data from Drossos et al. [B60] or the extension to 5800 MHz are provided (i.e., the values shown in italics). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6000 MHz that were linearly extrapolated from the values at 3000 MHz and 5800 MHz.

4. EQUIPMENT LIST AND CALIBRATION

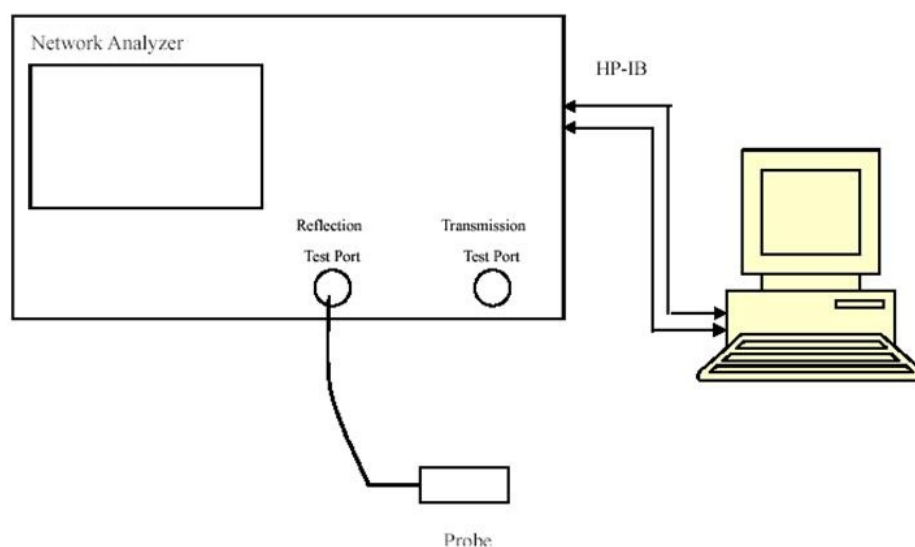
4.1 Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.10	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1470	NCR	NCR
Data Acquisition Electronics	DAE4	772	2025/2/17	2026/2/16
E-Field Probe	EX3DV4	7329	2025/5/26	2026/5/25
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
Twin SAM	Twin SAM V5.0	1097	NCR	NCR
Dipole, 750 MHz	D750V3	1167	2025/10/13	2028/10/12
Dipole, 1750 MHz	D1750V2	1141	2024/6/17	2027/6/16
Dipole, 1900 MHz	D1900V2	543	2025/10/13	2028/10/12
Dipole, 2450 MHz	D2450V2	971	2024/6/15	2027/6/14
Dipole, 2600 MHz	D2600V2	1132	2025/10/14	2028/10/13
Dipole, 5 GHz	D5GHzV2	1246	2025/10/14	2028/10/13
Simulated Tissue Liquid Head	HBBL600-10000V6	SL AAH U126 CA (Batch:250429-1)	N/A	N/A
Network Analyzer	8753C +85047A	3029A01355 +3033A02857	2025/7/3	2026/7/2
Dielectric assessment kit	DAK-3.5	1253	NCR	NCR
Signal Generator	8665B	3438a00584	2025/7/29	2026/7/28
Power Meter	E4419B	MY45103907	2025/7/29	2026/7/28
Power Sensor	8482A	US37296108	2025/7/29	2026/7/28
Power Meter	EPM-441A	GB37481494	2025/7/29	2026/7/28
Power Amplifier	ZHL-5W-202-S+	416402204	NCR	NCR
Power Amplifier	ZVE-6W-83+	637202210	NCR	NCR
Directional Coupler	520Z	441493	2025/6/1	2026/5/31
Directional Coupler	1818	0955-0101	2025/6/1	2026/5/31
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
Thermometer	DTM3000	3635	2025/8/8	2026/8/7
Ruler	/	F-08-EM526	2025/8/6	2028/8/5
Hygrothermograph	HTC-2	EM072	2025/8/4	2026/8/3
Wideband Radio Communication Tester	CMW500	147473	2025/7/28	2026/7/27
Spectrum Analyzer	FSV40	101461	2025/8/3	2026/8/2

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

5. SAR MEASUREMENT SYSTEM VERIFICATION

5.1 Liquid Verification



5.2 Liquid Verification Results

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
704	Simulated Tissue Liquid Head	42.145	0.907	42.15	0.89	-0.01	1.91	± 5
707.5	Simulated Tissue Liquid Head	42.103	0.911	42.13	0.89	-0.06	2.36	± 5
711	Simulated Tissue Liquid Head	42.062	0.914	42.11	0.89	-0.11	2.7	± 5
750	Simulated Tissue Liquid Head	41.890	0.922	41.9	0.89	-0.02	3.6	± 5
782	Simulated Tissue Liquid Head	41.684	0.915	41.75	0.89	-0.16	2.81	± 5
793	Simulated Tissue Liquid Head	41.556	0.919	41.7	0.90	-0.35	2.11	± 5

*Liquid Verification above was performed on 2025/11/20.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
673	Simulated Tissue Liquid Head	42.542	0.879	42.31	0.88	0.55	-0.11	± 5
683	Simulated Tissue Liquid Head	42.384	0.889	42.26	0.89	0.29	-0.11	± 5
688	Simulated Tissue Liquid Head	42.375	0.893	42.23	0.89	0.34	0.34	± 5
750	Simulated Tissue Liquid Head	41.910	0.924	41.9	0.89	0.02	3.82	± 5
821.5	Simulated Tissue Liquid Head	41.477	0.929	41.56	0.90	-0.2	3.22	± 5
836.5	Simulated Tissue Liquid Head	41.454	0.936	41.5	0.90	-0.11	4	± 5
841.5	Simulated Tissue Liquid Head	41.431	0.941	41.5	0.91	-0.17	3.41	± 5

*Liquid Verification above was performed on 2025/11/21.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
1720	Simulated Tissue Liquid Head	39.841	1.332	40.13	1.35	-0.72	-1.33	±5
1745	Simulated Tissue Liquid Head	39.734	1.356	40.1	1.37	-0.91	-1.02	±5
1750	Simulated Tissue Liquid Head	39.713	1.360	40.10	1.37	-0.97	-0.73	±5
1770	Simulated Tissue Liquid Head	39.627	1.379	40.06	1.38	-1.08	-0.07	±5

*Liquid Verification above was performed on 2025/11/22.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
1860	Simulated Tissue Liquid Head	40.141	1.409	40.00	1.40	0.35	0.64	±5
1882.5	Simulated Tissue Liquid Head	40.060	1.404	40.00	1.40	0.15	0.29	±5
1900	Simulated Tissue Liquid Head	40.008	1.394	40.00	1.40	0.02	-0.43	±5
1905	Simulated Tissue Liquid Head	39.985	1.395	40.00	1.40	-0.04	-0.36	±5

*Liquid Verification above was performed on 2025/11/24.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
2402	Simulated Tissue Liquid Head	40.939	1.744	39.3	1.76	4.17	-0.91	±5
2412	Simulated Tissue Liquid Head	40.913	1.757	39.28	1.77	4.16	-0.73	±5
2437	Simulated Tissue Liquid Head	40.826	1.783	39.23	1.79	4.07	-0.39	±5
2441	Simulated Tissue Liquid Head	40.809	1.787	39.22	1.79	4.05	-0.17	±5
2450	Simulated Tissue Liquid Head	40.773	1.796	39.2	1.8	4.01	-0.22	±5
2462	Simulated Tissue Liquid Head	40.742	1.809	39.18	1.81	3.99	-0.06	±5
2480	Simulated Tissue Liquid Head	40.679	1.832	39.16	1.83	3.88	0.11	±5

*Liquid Verification above was performed on 2025/11/22.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
2506	Simulated Tissue Liquid Head	40.581	1.860	39.13	1.86	3.71	0	±5
2510	Simulated Tissue Liquid Head	40.566	1.864	39.12	1.86	3.7	0.22	±5
2535	Simulated Tissue Liquid Head	40.485	1.896	39.09	1.89	3.57	0.32	±5
2550	Simulated Tissue Liquid Head	40.434	1.915	39.07	1.91	3.49	0.26	±5
2560	Simulated Tissue Liquid Head	40.428	1.925	39.05	1.92	3.53	0.26	±5
2595	Simulated Tissue Liquid Head	40.072	1.975	39.01	1.95	2.72	1.28	±5
2600	Simulated Tissue Liquid Head	40.025	1.980	39.00	1.96	2.63	1.02	±5
2642	Simulated Tissue Liquid Head	39.625	2.026	38.95	2.01	1.73	0.8	±5
2680	Simulated Tissue Liquid Head	39.251	2.069	38.90	2.05	0.9	0.93	±5

*Liquid Verification above was performed on 2025/11/25.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
5190	Simulated Tissue Liquid Head	36.866	4.522	36.01	4.65	2.38	-2.75	± 5
5230	Simulated Tissue Liquid Head	36.828	4.564	35.97	4.69	2.39	-2.69	± 5
5250	Simulated Tissue Liquid Head	36.782	4.583	35.95	4.71	2.31	-2.70	± 5
5270	Simulated Tissue Liquid Head	36.662	4.605	35.93	4.73	2.04	-2.64	± 5
5310	Simulated Tissue Liquid Head	36.572	4.645	35.89	4.77	1.90	-2.62	± 5

*Liquid Verification above was performed on 2025/11/24.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
5510	Simulated Tissue Liquid Head	36.098	4.888	35.64	4.98	1.29	-1.85	± 5
5550	Simulated Tissue Liquid Head	35.992	4.952	35.58	5.02	1.16	-1.35	± 5
5600	Simulated Tissue Liquid Head	35.848	5.009	35.50	5.07	0.98	-1.20	± 5
5670	Simulated Tissue Liquid Head	35.724	5.084	35.43	5.14	0.83	-1.09	± 5

*Liquid Verification above was performed on 2025/11/17.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
5755	Simulated Tissue Liquid Head	35.551	5.199	35.35	5.23	0.57	-0.59	± 5
5795	Simulated Tissue Liquid Head	35.468	5.250	35.31	5.27	0.45	-0.38	± 5
5800	Simulated Tissue Liquid Head	35.467	5.257	35.30	5.27	0.47	-0.25	± 5

*Liquid Verification above was performed on 2025/11/21.

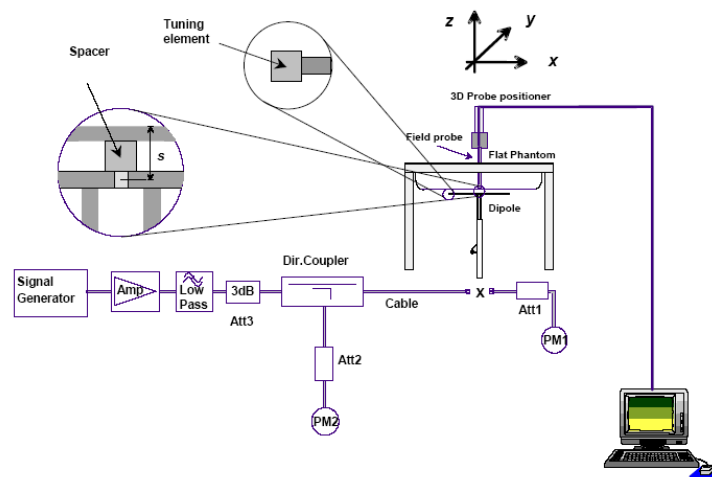
5.3 System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The spacing distances in the **System Verification Setup Block Diagram** is given by the following:

- $s = 15 \text{ mm} \pm 0,2 \text{ mm}$ for $300 \text{ MHz} \leq f \leq 1\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $1\,000 \text{ MHz} < f \leq 3\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $3\,000 \text{ MHz} < f \leq 6\,000 \text{ MHz}$.

System Verification Setup Block Diagram



5.4 System Accuracy Check Results

Date	Frequency Band (MHz)	Liquid Type	Input Power (mW)	Measured SAR (W/kg)	Normalized to 1W (W/kg)	Target Value (W/Kg)	Delta (%)	Tolerance (%)
2025/11/20	750	Simulated Tissue Liquid Head	100	1g 0.812	8.12	8.56	-5.14	± 10
2025/11/21	750	Simulated Tissue Liquid Head	100	1g 0.851	8.51	8.56	-0.58	± 10
2025/11/22	1750	Simulated Tissue Liquid Head	100	1g 3.55	35.5	36.1	-1.66	± 10
2025/11/24	1900	Simulated Tissue Liquid Head	100	1g 3.88	38.8	39.9	-2.76	± 10
2025/11/22	2450	Simulated Tissue Liquid Head	100	1g 5.22	52.2	52.7	-0.95	± 10
2025/11/25	2600	Simulated Tissue Liquid Head	100	1g 5.47	54.7	55.2	-0.91	± 10
2025/11/24	5250	Simulated Tissue Liquid Head	100	1g 7.65	76.5	79.3	-3.53	± 10
2025/11/17	5600	Simulated Tissue Liquid Head	100	1g 8.4	84	81.1	3.58	± 10
2025/11/21	5800	Simulated Tissue Liquid Head	100	1g 8.28	82.8	77.9	6.29	± 10

Note: All the SAR values are normalized to 1 Watt forward power.

Date	Frequency Band (MHz)	Liquid Type	Input Power (mW)	Measured SAR (W/kg)	Normalized to 1W (W/kg)	Target Value (W/Kg)	Delta (%)	Tolerance (%)
2025/11/20	750	Simulated Tissue Liquid Head	100	10g 0.562	5.62	5.72	-1.75	±10
2025/11/21	750	Simulated Tissue Liquid Head	100	10g 0.567	5.67	5.72	-0.87	±10
2025/11/22	1750	Simulated Tissue Liquid Head	100	10g 2.04	20.4	19.4	5.15	±10
2025/11/24	1900	Simulated Tissue Liquid Head	100	10g 2.14	21.4	21	1.9	±10
2025/11/22	2450	Simulated Tissue Liquid Head	100	10g 2.54	25.4	24.8	2.42	±10
2025/11/25	2600	Simulated Tissue Liquid Head	100	10g 2.65	26.5	25	6	±10
2025/11/24	5250	Simulated Tissue Liquid Head	100	10g 2.21	22.1	22.1	0	±10
2025/11/17	5600	Simulated Tissue Liquid Head	100	10g 2.43	24.3	22.5	8	±10
2025/11/21	5800	Simulated Tissue Liquid Head	100	10g 2.32	23.2	21.4	8.41	±10

Note: All the SAR values are normalized to 1Watt forward power.

5.5 SAR SYSTEM VALIDATION DATA

System Performance 750 MHz Head was performed on 2025/11/20

DUT: D750V3; Type: 750 MHz; Serial: 1167

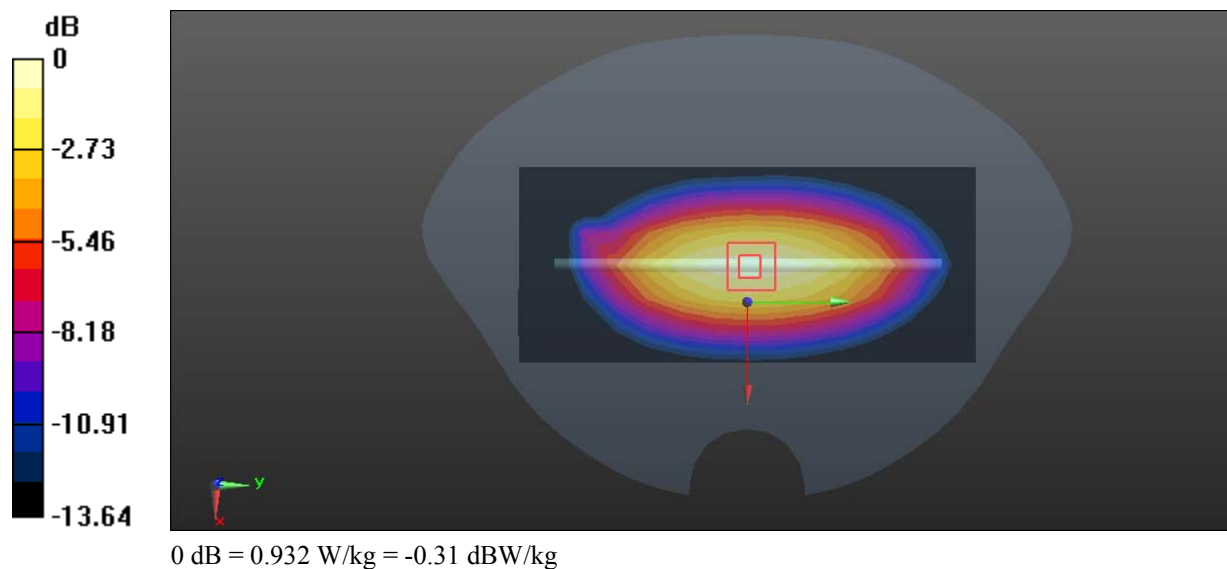
Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.922$ S/m; $\epsilon_r = 41.89$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(10.2, 10.2, 10.2) @750 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.930 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.17 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 1.18 W/kg
SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.562 W/kg
Smallest distance from peaks to all points 3 dB below = 20.6 mm
Ratio of SAR at M2 to SAR at M1 = 70.3%
Maximum value of SAR (measured) = 0.932 W/kg



System Performance 750 MHz Head was performed on 2025/11/21**DUT: D750V3; Type: 750 MHz; Serial: 1167**

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 41.91$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(10.2, 10.2, 10.2) @750 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.09 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.73 V/m; Power Drift = -0.03 dB

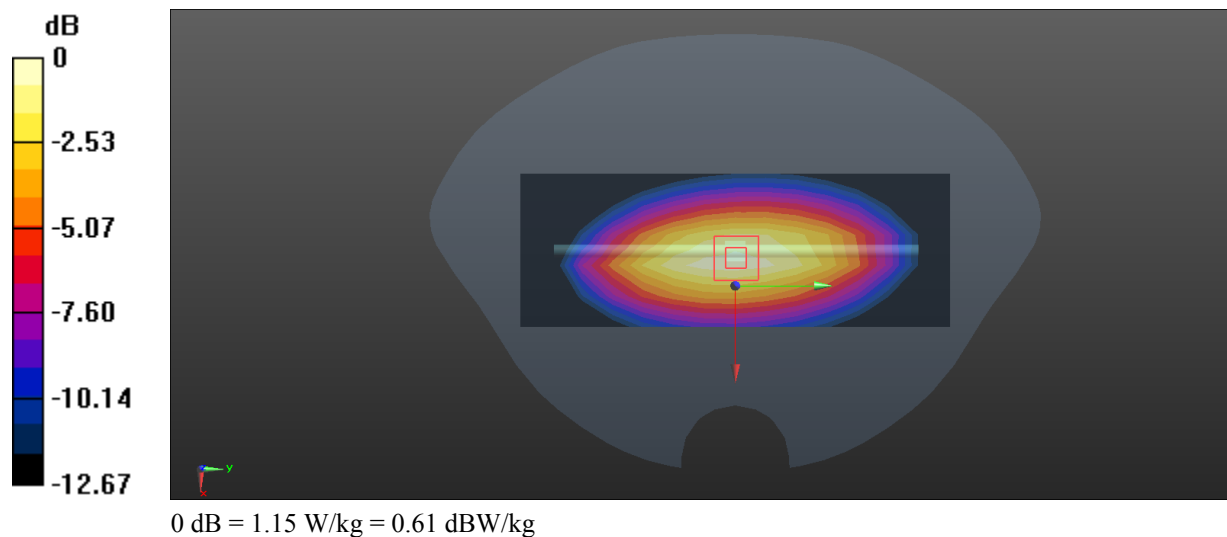
Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.851 W/kg; SAR(10 g) = 0.567 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 64.4%

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



System Performance 1750 MHz Head was performed on 2025/11/22**DUT: D1750V2; Type: 1750 MHz; Serial: 1141**

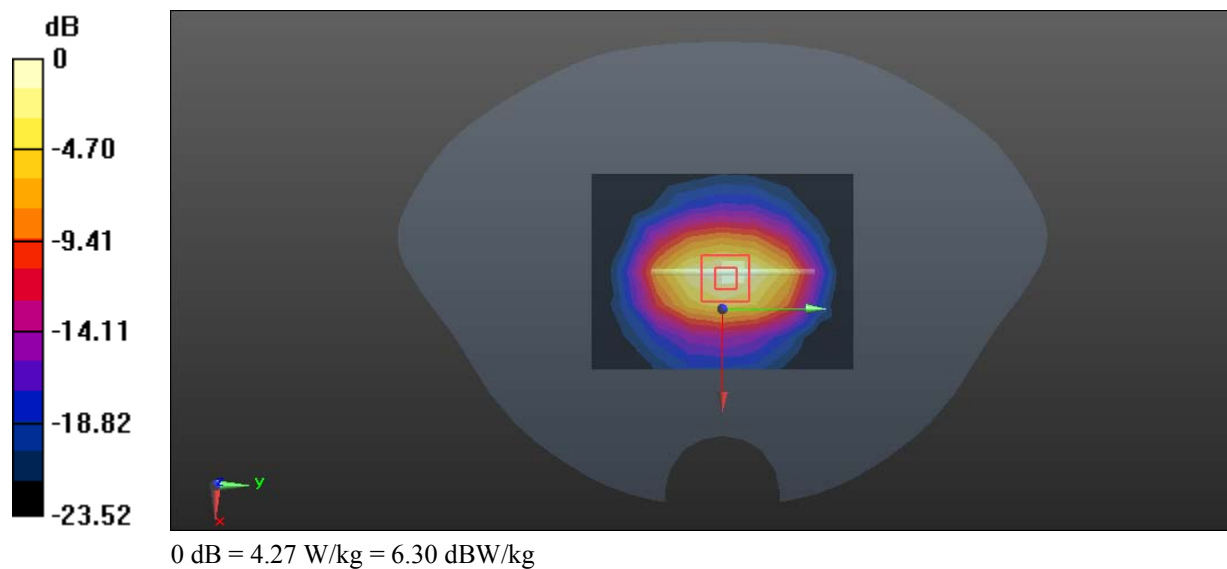
Communication System: CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 39.713$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(8.45, 8.45, 8.45) @1750 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 4.15 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.98 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 5.94 W/kg
SAR(1 g) = 3.55 W/kg; SAR(10 g) = 2.04 W/kg
Smallest distance from peaks to all points 3 dB below = 11.7 mm
Ratio of SAR at M2 to SAR at M1 = 61.6%
Maximum value of SAR (measured) = 4.27 W/kg



System Performance 1900 MHz Head was performed on 2025/11/24**DUT: D1900V2; Type: 1900 MHz; Serial: 543**

Communication System: CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.394$ S/m; $\epsilon_r = 40.008$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(8.12, 8.12, 8.12) @1900 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.57 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.54 V/m; Power Drift = 0.16 dB

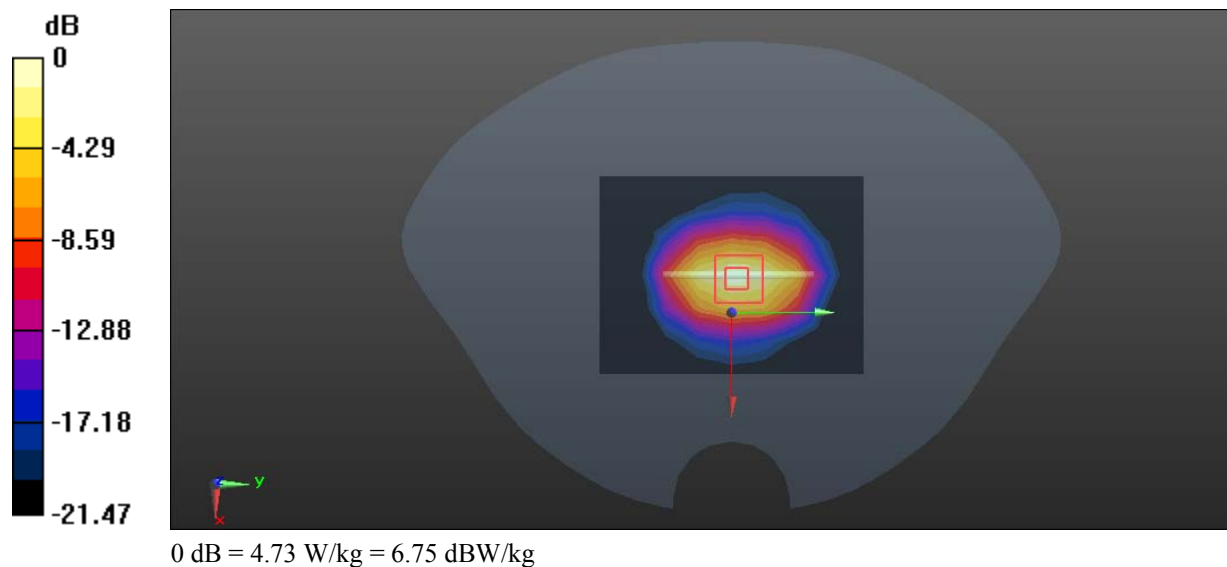
Peak SAR (extrapolated) = 6.83 W/kg

SAR(1 g) = 3.88 W/kg; SAR(10 g) = 2.14 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 4.73 W/kg



System Performance 2450 MHz Head was performed on 2025/11/22**DUT: D2450V2; Type: 2450 MHz; Serial: 971**

Communication System: CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 40.773$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.68, 7.68, 7.68) @2450 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 6.56 W/kg

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

Reference Value = 60.02 V/m; Power Drift = -0.05 dB

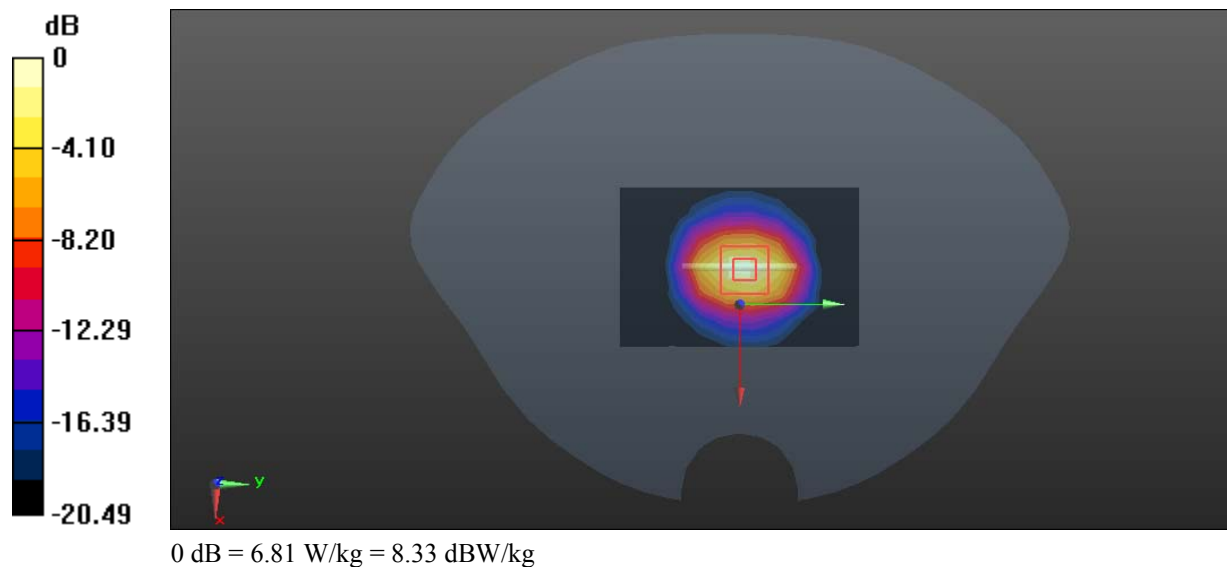
Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.54 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

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

Maximum value of SAR (measured) = 6.81 W/kg



System Performance 2600 MHz Head was performed on 2025/11/25**DUT: D2600V2; Type: 2600 MHz; Serial: 1132**

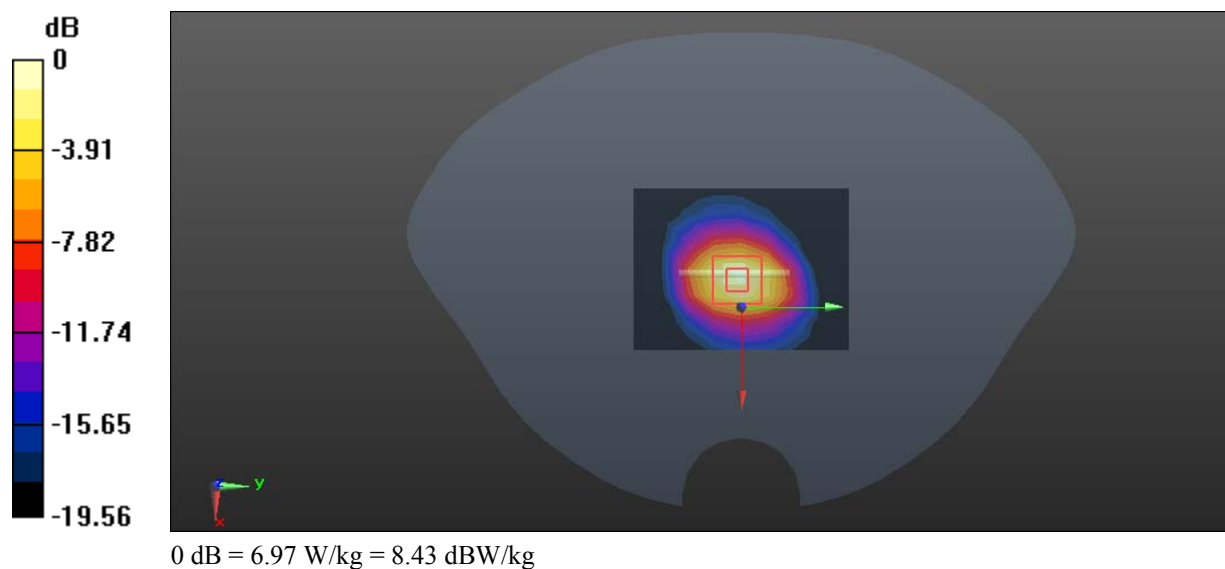
Communication System: CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.98$ S/m; $\epsilon_r = 40.025$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.5, 7.5, 7.5) @2600 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.87 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.81 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 9.85 W/kg
SAR(1 g) = 5.47 W/kg; SAR(10 g) = 2.65 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 57.2%
Maximum value of SAR (measured) = 6.97 W/kg



System Performance 5250 MHz Head was performed on 2025/11/24**DUT: D5GHzV2; Type: 5250 MHz; Serial: 1246**

Communication System: CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 36.782$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.5, 5.5, 5.5) @5250 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (8x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 14.5 W/kg

Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 39.33 V/m; Power Drift = -0.13 dB

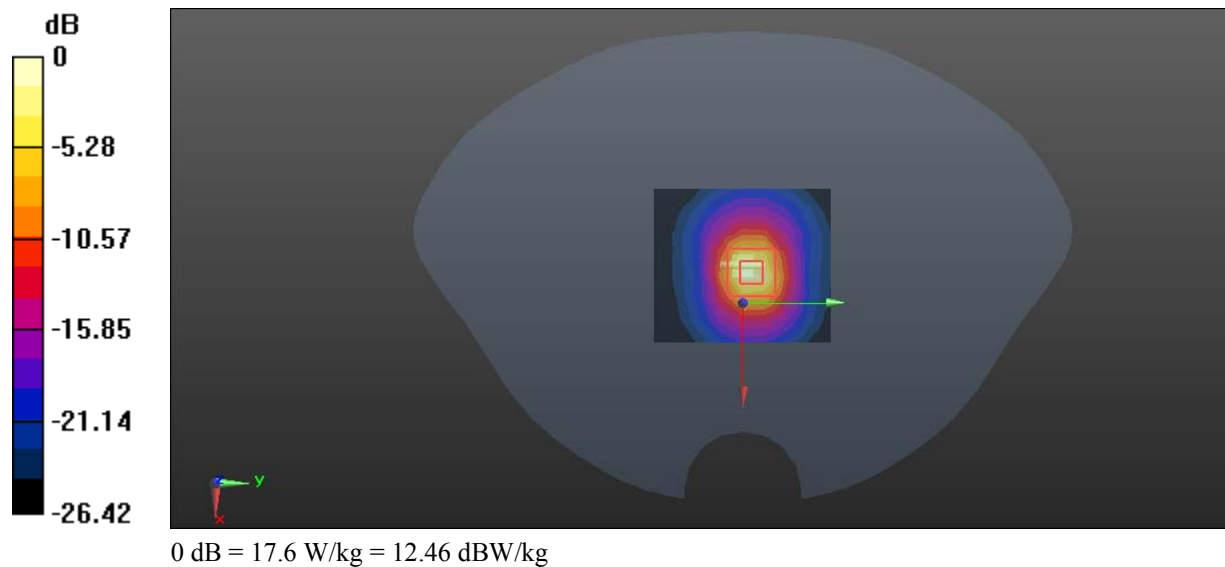
Peak SAR (extrapolated) = 29.3 W/kg

SAR(1 g) = 7.65 W/kg; SAR(10 g) = 2.21 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 17.6 W/kg



System Performance 5600 MHz Head was performed on 2025/11/17**DUT: D5GHzV2; Type: 5600 MHz; Serial: 1246**

Communication System: CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.009$ S/m; $\epsilon_r = 35.848$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.9, 4.9, 4.9) @5600 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.9 W/kg

Zoom Scan (8x8x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 38.86 V/m; Power Drift = 0.15 dB

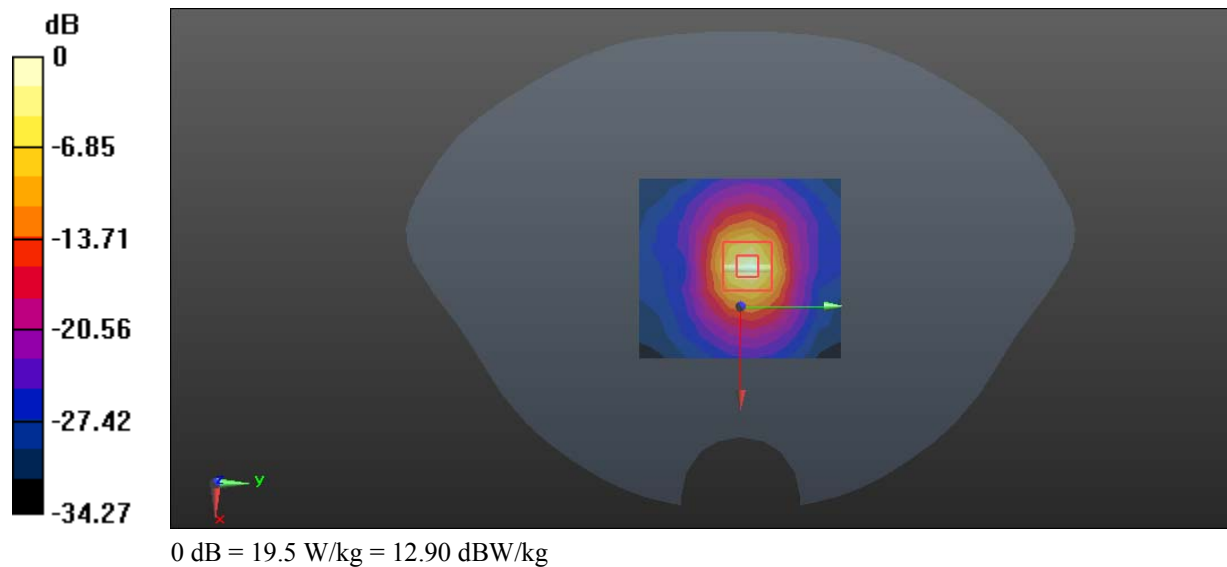
Peak SAR (extrapolated) = 31.1 W/kg

SAR(1 g) = 8.4 W/kg; SAR(10 g) = 2.43 W/kg

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

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

Maximum value of SAR (measured) = 19.5 W/kg



System Performance 5800 MHz Head was performed on 2025/11/21**DUT: D5GHzV2; Type: 5800 MHz; Serial: 1246**

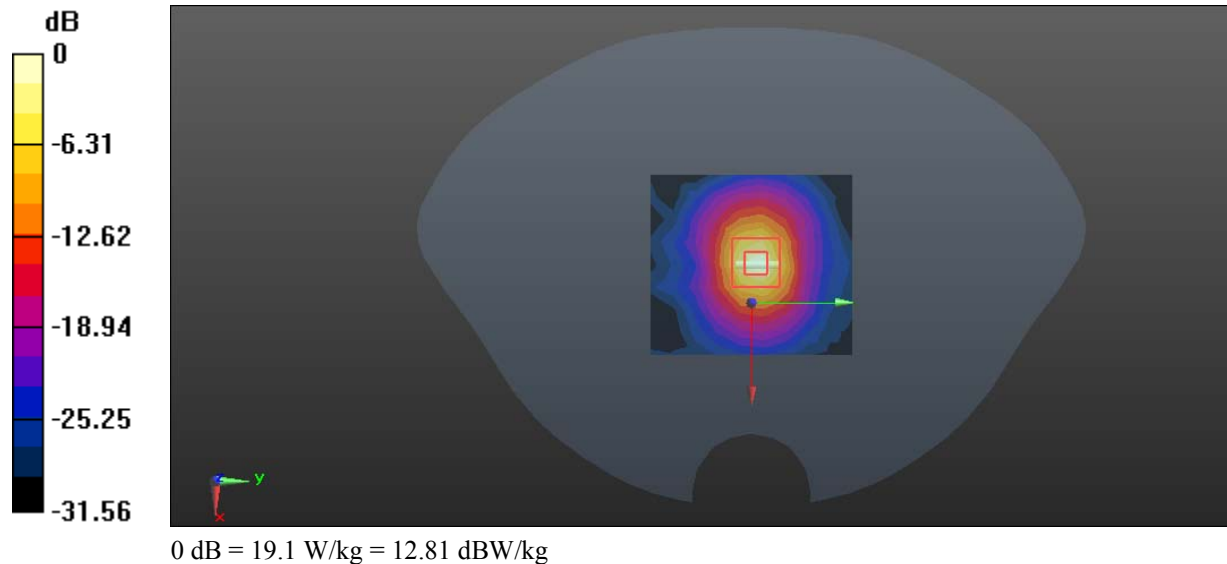
Communication System: CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800$ MHz; $\sigma = 5.257$ S/m; $\epsilon_r = 35.467$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.02, 5.02, 5.02) @5800 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM V5.0; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 19.1 W/kg

Zoom Scan (8x8x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 41.58 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 32.9 W/kg
SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.32 W/kg
Smallest distance from peaks to all points 3 dB below = 7.7 mm
Ratio of SAR at M2 to SAR at M1 = 55.5%
Maximum value of SAR (measured) = 19.1 W/kg



6. EUT TEST STRATEGY AND METHODOLOGY

6.1 Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

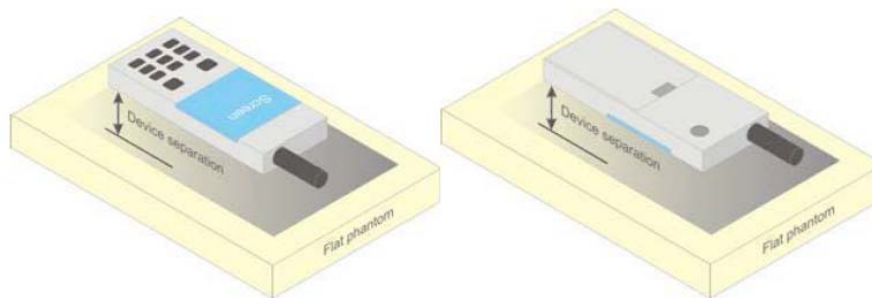


Figure 5 – Test positions for body-worn devices

6.2 Test Distance for SAR Evaluation

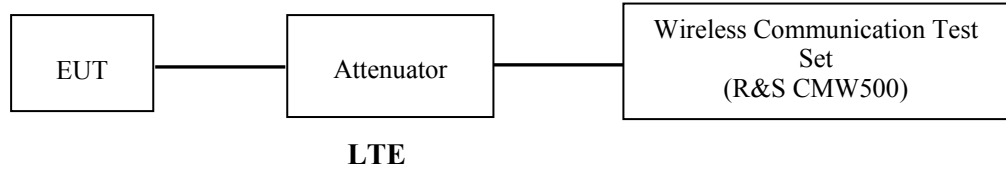
For Body mode(1g Body SAR) the EUT(Equipment Under Test) is set 10mm away from the phantom, the test distance is 10mm;

For Limb mode(10g Extremity SAR) the EUT is set 0mm away from the phantom, the test distance is 0mm.

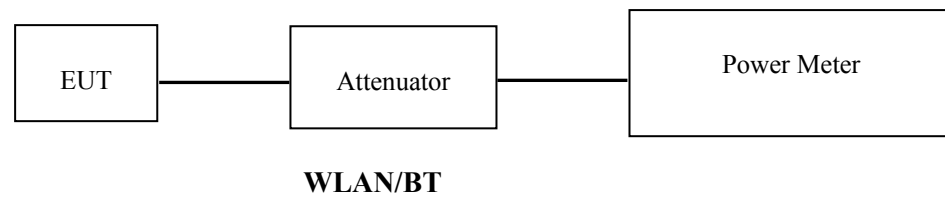
7. CONDUCTED OUTPUT POWER MEASUREMENT

7.1 Test Procedure

The RF output of the transmitter was connected to the input of the Wireless Communication Test Set through Attenuator.



The RF output of the transmitter was connected to the input port of the Power Meter through Attenuator.



7.2 Radio Configuration

The power measurement was configured by the Wireless Communication Test Set.

FDD-LTE

For UE Power Class 1 and 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2-1 due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1 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
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

For UE Power Class 1 and 3 the specific requirements and identified sub clauses are specified in Table 6.2.4-1 along with the allowed A-MPR values that may be used to meet these requirements. The allowed A-MPR values specified below in Table 6.2.4.-1 to 6.2.4-15 are in addition to the allowed MPR requirements specified in sub clause 6.2.3.

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	N/A
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	
NS_11	6.6.2.2.1	23	1.4, 3, 5, 10, 15, 20	Table 6.2.4-5	
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4-6	
NS_13	6.6.3.3.6	26	5	Table 6.2.4-7	
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4-8	
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4-9 Table 6.2.4-10	
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4-11, Table 6.2.4-12, Table 6.2.4-13	
NS_17	6.6.3.3.10	28	5, 10	Table 5.6-1	N/A
NS_18	6.6.3.3.11	28	5	≥ 2	≤ 1
			10, 15, 20	≥ 1	≤ 4
NS_19	6.6.3.3.12	44	10, 15, 20	Table 6.2.4-14	
NS_20	6.2.2 6.6.2.2.1 6.6.3.2	23	5, 10, 15, 20	Table 6.2.4-15	
...					
NS_32	-	-	-	-	-

TDD-LTE

LTE TDD Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations.

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

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

We used configuration 0 for LTE Band 41 SAR test, that is 63.33%(1:1.58) for duty cycle.

7.3 Maximum Target Output Power

Mode/Band	Max Target Power(dBm)		
	Channel		
	Low	Middle	High
LTE Band 2	24	24	24
LTE Band 4	24	24	24
LTE Band 5	24	24	24
LTE Band 7	23.5	23.5	23.5
LTE Band 12	23.5	23.5	23.5
LTE Band 13	23.5	23.5	23.5
LTE Band 14	23.5	23.5	23.5
LTE Band 17	23.5	23.5	23.5
LTE Band 25	24	24	24
LTE Band 26	24	24	24
LTE Band 41	23.5	23.5	23.5
LTE Band 66	24	24	24
LTE Band 71	24	24	24
WLAN 2.4G(802.11b)	18.5	18.5	18.5
WLAN 2.4G(802.11g)	14	14	14
WLAN 2.4G(802.11n ht20)	13	13	13
WLAN 2.4G(802.11n ht40)	13	13	13
WLAN 5.2G(802.11a)	15	15	15
WLAN 5.2G(802.11n20)	15	15	15
WLAN 5.2G(802.11n40)	14	/	15
WLAN 5.2G(802.11ac20)	15	15.5	15
WLAN 5.2G(802.11ac40)	13.5	/	15.5
WLAN 5.2G(802.11ac80)	/	14	/
WLAN 5.3G(802.11a)	15	15	15
WLAN 5.3G(802.11n20)	15	15	15
WLAN 5.3G(802.11n40)	15	/	15.5
WLAN 5.3G(802.11ac20)	15	15.5	15
WLAN 5.3G(802.11ac40)	16	/	15
WLAN 5.3G(802.11ac80)	/	14	/
WLAN 5.6G(802.11a)	15	15	15
WLAN 5.6G(802.11n20)	14	14	14
WLAN 5.6G(802.11n40)	16	15	16
WLAN 5.6G(802.11ac20)	15	15	15.5
WLAN 5.6G(802.11ac40)	15.5	15.5	16.5
WLAN 5.6G(802.11ac80)	14	/	14
WLAN 5.8G(802.11a)	15.5	15	15
WLAN 5.8G(802.11n20)	15	15	15
WLAN 5.8G(802.11n40)	15	/	15
WLAN 5.8G(802.11ac20)	16	15	15
WLAN 5.8G(802.11ac40)	16.5	/	16.5
WLAN 5.8G(802.11ac80)	/	15	/
BT BDR(GFSK)	7	9	9
BT EDR($\pi/4$ -DQPSK)	8	9.5	9.5
BT EDR(8DPSK)	9.5	9.5	10

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
BLE 1Mbps	1.5	1.5	1.5

Note: The Maximum Target Power for LTE bands corresponds to their maximum power in QPSK modes with maximum bandwidth.

7.4 Test Results:**LTE Band 2:**

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	22.88	22.73	22.83
		1@3	22.87	22.67	22.42
		1@5	22.89	22.50	22.40
		3@0	22.59	22.72	22.63
		3@1	22.61	22.68	22.39
		3@3	22.63	22.55	22.45
		6@0	21.89	21.65	21.47
	16-QAM	1@0	22.34	22.12	21.62
		1@3	22.37	22.03	21.93
		1@5	22.08	22.06	21.87
		3@0	21.82	21.52	21.37
		3@1	21.72	21.43	21.25
		3@3	21.53	21.37	21.22
		6@0	20.96	20.77	20.48
3M	QPSK	1@0	23.05	22.93	22.51
		1@8	22.96	22.64	22.54
		1@14	22.90	22.78	22.45
		8@0	22.66	22.67	22.26
		8@4	22.64	22.61	22.10
		8@7	22.60	22.51	22.04
		15@0	21.96	21.65	21.47
	16-QAM	1@0	22.25	22.20	21.71
		1@8	22.13	22.03	21.87
		1@14	22.04	21.80	21.92
		8@0	21.79	21.47	21.26
		8@4	21.62	21.30	21.15
		8@7	21.49	21.24	21.10
		15@0	20.93	20.77	20.51
5M	QPSK	1@0	22.94	22.94	22.64
		1@12	22.74	22.84	22.49
		1@24	22.96	22.90	22.35
		12@0	22.62	22.74	22.24
		12@7	22.71	22.67	22.06
		12@13	22.60	22.60	21.98
		25@0	22.03	21.81	21.49
	16-QAM	1@0	22.45	22.06	21.79
		1@12	22.38	22.29	21.95
		1@24	22.29	21.94	21.98
		12@0	21.83	21.33	21.27
		12@7	21.62	21.17	21.12
		12@13	21.49	21.12	21.05
		25@0	20.98	20.75	20.69

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	23.00	22.80	22.65
		1@25	23.05	22.76	22.49
		1@49	22.95	22.89	22.63
		25@0	22.71	22.74	22.28
		25@12	22.65	22.57	22.00
		25@25	22.66	22.48	21.96
		50@0	22.03	21.81	21.69
	16-QAM	1@0	22.44	22.29	22.13
		1@25	22.31	22.11	22.07
		1@49	22.28	22.17	21.97
		25@0	21.78	21.52	21.16
		25@12	21.53	21.29	21.12
		25@25	21.37	21.21	21.16
		50@0	21.03	20.72	20.50
15M	QPSK	1@0	23.02	22.92	22.98
		1@37	22.57	22.75	22.66
		1@74	22.96	23.13	22.79
		36@0	22.75	22.63	22.15
		36@20	22.65	22.66	22.17
		36@39	22.56	22.59	21.94
		75@0	21.73	21.90	21.73
	16-QAM	1@0	22.27	22.25	22.35
		1@37	22.04	22.08	22.24
		1@74	22.31	22.35	22.19
		36@0	21.85	21.55	21.26
		36@20	21.71	21.37	21.04
		36@39	21.50	21.20	21.10
		75@0	20.82	20.88	20.85
20M	QPSK	1@0	22.82	22.98	23.19
		1@49	22.78	22.82	22.66
		1@99	22.57	22.77	22.43
		50@0	22.48	22.54	22.30
		50@24	22.35	22.47	22.19
		50@50	22.29	22.43	22.10
		100@0	22.13	22.17	22.16
	16-QAM	1@0	22.37	22.31	22.33
		1@49	22.10	22.02	21.94
		1@99	22.23	21.95	21.88
		50@0	21.80	21.46	21.27
		50@24	21.64	21.25	21.15
		50@50	21.51	21.28	21.08
		100@0	20.72	20.77	20.63

LTE Band 4:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	22.67	23.11	23.11
		1@3	23.29	23.20	23.25
		1@5	23.15	23.11	23.10
		3@0	22.71	22.67	22.64
		3@1	22.61	22.60	22.57
		3@3	22.52	22.51	22.36
		6@0	22.29	22.24	21.91
	16-QAM	1@0	22.50	22.46	22.43
		1@3	22.52	22.44	22.42
		1@5	22.58	22.20	22.31
		3@0	22.26	22.14	22.24
		3@1	21.99	22.01	22.04
		3@3	21.82	21.80	21.75
		6@0	21.34	21.26	21.01
3M	QPSK	1@0	23.12	23.21	23.05
		1@8	23.24	23.17	22.83
		1@14	23.01	23.24	22.77
		8@0	22.80	22.82	22.54
		8@4	22.71	22.73	22.46
		8@7	22.58	22.43	22.28
		15@0	22.15	22.20	21.96
	16-QAM	1@0	22.59	22.45	22.32
		1@8	22.44	22.32	22.31
		1@14	22.47	22.21	21.86
		8@0	22.02	21.90	21.70
		8@4	21.81	21.51	21.34
		8@7	21.48	21.36	21.15
		15@0	21.31	21.13	20.89
5M	QPSK	1@0	23.36	23.28	22.93
		1@12	23.19	23.17	22.75
		1@24	23.22	23.26	22.85
		12@0	22.88	22.82	22.54
		12@7	22.75	22.78	22.37
		12@13	22.54	22.45	22.21
		25@0	22.26	22.07	21.94
	16-QAM	1@0	22.73	22.54	22.35
		1@12	22.64	22.37	22.22
		1@24	22.74	22.51	22.09
		12@0	22.04	21.86	21.73
		12@7	21.78	21.50	21.28
		12@13	21.52	21.31	21.20
		25@0	21.18	21.16	21.00

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	23.40	23.48	23.33
		1@25	23.29	23.02	22.89
		1@49	23.55	23.42	23.14
		25@0	23.19	22.86	22.83
		25@12	22.94	22.64	22.76
		25@25	22.62	22.45	22.51
		50@0	22.33	22.32	22.10
	16-QAM	1@0	22.80	22.85	22.63
		1@25	22.52	22.23	22.03
		1@49	22.72	22.85	22.61
		25@0	22.18	21.98	21.70
		25@12	21.93	21.74	21.23
		25@25	21.57	21.37	21.13
		50@0	21.29	21.15	20.90
15M	QPSK	1@0	23.29	22.93	22.79
		1@37	23.09	23.09	22.75
		1@74	23.03	23.31	22.94
		36@0	22.82	22.73	22.50
		36@20	22.67	22.45	22.54
		36@39	22.62	22.13	22.21
		75@0	22.23	21.95	21.91
	16-QAM	1@0	22.60	22.31	22.15
		1@37	22.54	22.44	22.19
		1@74	22.45	22.27	22.16
		36@0	21.97	21.90	21.59
		36@20	21.89	21.56	21.33
		36@39	21.54	21.43	21.21
		75@0	21.19	20.98	20.78
20M	QPSK	1@0	23.06	22.90	22.75
		1@49	23.22	23.12	23.06
		1@99	23.08	22.91	22.94
		50@0	22.73	22.64	22.56
		50@24	22.54	22.30	22.32
		50@50	22.29	22.20	22.17
		100@0	22.06	22.04	22.05
	16-QAM	1@0	22.34	22.13	21.91
		1@49	22.31	22.29	22.15
		1@99	22.44	22.23	22.47
		50@0	22.03	21.70	21.70
		50@24	21.84	21.60	21.55
		50@50	21.51	21.22	21.33
		100@0	20.92	20.93	20.85

LTE Band 5:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	23.05	22.95	23.02
		1@3	23.02	22.93	23.04
		1@5	23.10	23.06	22.97
		3@0	22.72	22.61	22.62
		3@1	22.56	22.33	22.28
		3@3	22.33	22.27	22.05
		6@0	22.13	22.12	21.91
	16-QAM	1@0	22.28	22.11	22.16
		1@3	22.29	22.29	22.09
		1@5	22.52	22.41	22.16
		3@0	22.14	21.68	21.76
		3@1	21.91	21.62	21.44
		3@3	21.52	21.26	21.22
		6@0	21.09	21.14	21.08
3M	QPSK	1@0	23.00	23.03	22.99
		1@8	23.03	23.20	23.10
		1@14	23.17	23.06	23.03
		8@0	22.74	22.61	22.57
		8@4	22.49	22.32	22.39
		8@7	22.38	22.25	22.07
		15@0	22.16	22.18	21.90
	16-QAM	1@0	22.31	22.40	22.39
		1@8	22.50	22.63	22.18
		1@14	22.31	22.31	22.15
		8@0	22.02	21.66	21.74
		8@4	21.89	21.58	21.62
		8@7	21.52	21.28	21.28
		15@0	21.12	21.31	21.17
5M	QPSK	1@0	23.02	22.99	23.14
		1@12	23.12	23.27	23.24
		1@24	23.07	22.95	23.06
		12@0	22.74	22.63	22.59
		12@7	22.57	22.30	22.33
		12@13	22.33	22.19	22.07
		25@0	22.14	22.13	22.08
	16-QAM	1@0	22.61	22.49	22.41
		1@12	22.27	22.34	22.50
		1@24	22.63	22.61	22.36
		12@0	22.08	21.69	21.72
		12@7	21.92	21.60	21.54
		12@13	21.46	21.30	21.29
		25@0	21.14	21.20	21.19

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	23.34	23.20	23.34
		1@25	23.17	22.92	23.14
		1@49	23.54	23.34	23.39
		25@0	23.03	22.76	22.99
		25@12	22.81	22.58	22.65
		25@25	22.50	22.34	22.55
		50@0	22.23	22.14	22.18
	16-QAM	1@0	22.64	22.48	22.56
		1@25	22.41	22.41	22.55
		1@49	22.83	22.59	22.40
		25@0	22.00	22.05	22.18
		25@12	21.78	21.70	21.95
		25@25	21.49	21.46	21.55
		50@0	21.14	21.20	21.54

LTE Band 7:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	22.91	22.93	22.83
		1@12	22.95	22.77	22.60
		1@24	22.93	22.84	22.71
		12@0	22.83	22.62	22.55
		12@7	22.50	22.51	22.22
		12@13	22.16	22.32	22.01
		25@0	21.98	21.97	21.61
	16-QAM	1@0	22.29	22.28	22.23
		1@12	22.17	22.03	21.88
		1@24	22.01	22.18	21.83
		12@0	21.79	21.71	21.54
		12@7	21.50	21.52	21.27
		12@13	21.15	21.17	21.09
		25@0	20.90	20.89	20.75
10M	QPSK	1@0	23.06	22.94	23.04
		1@25	22.91	22.81	22.68
		1@49	22.92	22.85	22.72
		25@0	22.80	22.64	22.49
		25@12	22.55	22.56	22.17
		25@25	22.27	22.41	21.89
		50@0	21.87	21.95	21.77
	16-QAM	1@0	22.25	22.36	22.39
		1@25	22.03	22.20	22.05
		1@49	21.99	22.33	22.23
		25@0	21.77	21.71	21.73
		25@12	21.59	21.61	21.61
		25@25	21.12	21.26	21.09
		50@0	20.86	20.80	20.67
15M	QPSK	1@0	22.81	23.03	22.94
		1@37	22.90	22.78	22.81
		1@74	22.82	22.85	22.75
		36@0	22.78	22.67	22.49
		36@20	22.60	22.61	22.24
		36@39	22.22	22.37	21.94
		75@0	21.95	21.95	21.79
	16-QAM	1@0	22.30	22.35	22.15
		1@37	22.21	22.38	22.14
		1@74	22.26	22.16	22.18
		36@0	21.78	21.73	21.61
		36@20	21.67	21.62	21.54
		36@39	21.16	21.34	21.16
		75@0	20.92	20.96	20.84

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1@0	23.23	23.17	23.02
		1@49	23.00	22.98	22.77
		1@99	22.92	22.96	22.88
		50@0	22.86	22.84	22.66
		50@24	22.64	22.55	22.33
		50@50	22.25	22.31	22.12
		100@0	22.00	21.93	21.91
	16-QAM	1@0	22.49	22.27	22.29
		1@49	22.41	22.34	22.02
		1@99	22.25	22.32	22.10
		50@0	21.76	21.90	21.60
		50@24	21.48	21.54	21.48
		50@50	21.24	21.24	21.11
		100@0	20.80	20.95	20.86

LTE Band 12:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	22.88	22.90	22.81
		1@3	22.96	23.05	22.86
		1@5	22.84	22.82	22.89
		3@0	22.82	22.75	22.45
		3@1	22.64	22.63	22.22
		3@3	22.17	22.35	22.00
		6@0	22.04	22.03	21.90
	16-QAM	1@0	22.29	22.35	22.13
		1@3	22.25	22.31	22.10
		1@5	22.11	22.20	22.22
		3@0	21.74	21.76	21.54
		3@1	21.67	21.69	21.56
		3@3	21.17	21.42	21.24
		6@0	21.00	21.05	20.84
3M	QPSK	1@0	23.04	23.09	22.99
		1@8	23.05	22.87	22.97
		1@14	22.82	22.90	22.65
		8@0	22.86	22.71	22.45
		8@4	22.62	22.57	22.32
		8@7	22.20	22.46	21.97
		15@0	22.15	22.03	21.75
	16-QAM	1@0	22.24	22.31	22.19
		1@8	22.18	22.36	22.32
		1@14	22.22	22.24	22.03
		8@0	21.87	21.70	21.67
		8@4	21.78	21.67	21.47
		8@7	21.19	21.40	21.17
		15@0	21.03	20.90	20.89
5M	QPSK	1@0	23.09	23.05	22.81
		1@12	23.20	22.80	22.97
		1@24	22.95	22.85	22.86
		12@0	22.96	22.70	22.42
		12@7	22.70	22.53	22.39
		12@13	22.29	22.54	22.03
		25@0	22.01	22.01	22.01
	16-QAM	1@0	22.31	22.37	22.21
		1@12	22.29	22.12	22.07
		1@24	22.37	22.23	22.18
		12@0	21.93	21.74	21.67
		12@7	21.88	21.71	21.45
		12@13	21.14	21.47	21.19
		25@0	21.02	20.91	20.81

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	23.42	23.34	23.15
		1@25	23.20	22.86	22.91
		1@49	23.13	23.17	23.09
		25@0	22.86	22.73	22.65
		25@12	22.70	22.66	22.40
		25@25	22.43	22.28	22.20
		50@0	22.00	21.99	22.08
	16-QAM	1@0	22.55	22.56	22.65
		1@25	22.36	22.30	22.40
		1@49	22.47	22.29	22.25
		25@0	21.93	21.92	22.08
		25@12	21.80	21.64	21.84
		25@25	21.17	21.40	21.44
		50@0	20.87	20.93	21.04

LTE Band 13:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	23.06	22.95	22.94
		1@12	23.00	23.04	22.66
		1@24	22.92	22.85	22.53
		12@0	22.97	23.07	22.88
		12@7	23.15	23.14	22.66
		12@13	22.97	22.95	22.60
		25@0	22.04	22.14	21.98
	16-QAM	1@0	22.26	22.52	22.12
		1@12	22.41	22.17	22.29
		1@24	22.37	22.34	22.26
		12@0	22.36	22.52	22.09
		12@7	22.37	22.21	22.11
		12@13	22.43	22.38	22.35
		25@0	21.19	21.33	21.30
10M	QPSK	1@0	/	22.93	/
		1@25	/	22.95	/
		1@49	/	23.21	/
		25@0	/	22.84	/
		25@12	/	22.79	/
		25@25	/	23.09	/
		50@0	/	22.41	/
	16-QAM	1@0	/	22.90	/
		1@25	/	22.48	/
		1@49	/	22.59	/
		25@0	/	22.90	/
		25@12	/	22.42	/
		25@25	/	22.46	/
		50@0	/	21.73	/

LTE Band 14:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	23.21	23.06	23.25
		1@12	22.91	23.11	23.08
		1@24	22.99	23.24	23.12
		12@0	23.15	22.91	22.98
		12@7	22.74	22.64	22.83
		12@13	22.62	22.48	22.67
		25@0	22.23	22.13	22.15
	16-QAM	1@0	22.33	22.46	22.48
		1@12	22.14	22.37	22.67
		1@24	22.30	22.33	22.35
		12@0	21.82	22.04	22.09
		12@7	21.61	21.83	21.81
		12@13	21.38	21.39	21.47
		25@0	21.17	21.25	21.07
10M	QPSK	1@0	/	23.45	/
		1@25	/	23.13	/
		1@49	/	23.18	/
		25@0	/	22.96	/
		25@12	/	22.89	/
		25@25	/	22.66	/
		50@0	/	22.26	/
	16-QAM	1@0	/	22.59	/
		1@25	/	22.43	/
		1@49	/	22.57	/
		25@0	/	22.21	/
		25@12	/	21.94	/
		25@25	/	21.52	/
		50@0	/	21.21	/

LTE Band 17:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	22.99	22.86	22.98
		1@12	22.92	23.08	22.94
		1@24	22.95	22.96	23.00
		12@0	22.62	22.57	22.69
		12@7	22.46	22.34	22.37
		12@13	22.20	22.20	22.27
		25@0	22.14	21.90	22.04
	16-QAM	1@0	22.28	22.31	22.34
		1@12	22.34	21.85	22.00
		1@24	22.25	22.08	22.13
		12@0	21.97	21.60	21.88
		12@7	21.72	21.40	21.67
		12@13	21.36	21.26	21.34
		25@0	21.11	20.83	20.94
10M	QPSK	1@0	23.21	23.28	23.22
		1@25	22.81	22.86	22.83
		1@49	23.00	23.02	23.04
		25@0	22.78	22.82	22.77
		25@12	22.49	22.57	22.62
		25@25	22.22	22.28	22.25
		50@0	22.01	21.93	21.95
	16-QAM	1@0	22.68	22.60	22.51
		1@25	22.23	22.21	22.11
		1@49	22.32	22.24	22.21
		25@0	22.01	21.83	21.95
		25@12	21.82	21.61	21.45
		25@25	21.37	21.21	21.05
		50@0	21.08	20.91	20.80

LTE Band 25:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	22.78	23.04	23.21
		1@3	22.93	22.96	22.81
		1@5	22.81	22.75	22.67
		3@0	22.60	22.55	22.42
		3@1	22.36	22.42	22.10
		3@3	22.26	22.09	21.82
		6@0	21.90	21.96	21.48
	16-QAM	1@0	21.93	21.86	21.79
		1@3	21.85	21.48	21.99
		1@5	21.77	21.64	21.78
		3@0	21.47	21.42	21.60
		3@1	21.34	21.30	21.36
		3@3	21.23	21.05	21.08
		6@0	20.81	20.77	20.71
3M	QPSK	1@0	22.96	22.81	22.85
		1@8	23.04	23.08	22.78
		1@14	22.84	22.92	23.02
		8@0	22.65	22.63	22.54
		8@4	22.39	22.40	22.36
		8@7	22.33	22.08	22.30
		15@0	21.79	21.94	22.07
	16-QAM	1@0	22.12	21.19	21.94
		1@8	21.62	21.98	21.81
		1@14	22.29	21.76	21.87
		8@0	21.57	21.47	21.79
		8@4	21.42	21.29	21.43
		8@7	21.14	21.10	20.99
		15@0	20.92	20.96	20.74
5M	QPSK	1@0	22.80	22.97	22.88
		1@12	23.15	23.03	22.87
		1@24	22.83	23.08	23.66
		12@0	22.56	22.85	22.77
		12@7	22.46	22.50	22.45
		12@13	22.09	22.31	22.23
		25@0	22.03	21.93	22.72
	16-QAM	1@0	22.37	22.29	21.55
		1@12	22.40	21.93	21.99
		1@24	22.30	22.34	21.73
		12@0	21.94	21.63	21.53
		12@7	21.41	21.39	21.07
		12@13	20.98	21.09	20.91
		25@0	20.48	20.70	20.49

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	22.83	22.90	22.91
		1@25	22.97	22.71	22.75
		1@49	23.17	22.65	22.81
		25@0	22.75	22.31	22.45
		25@12	22.61	21.95	22.15
		25@25	22.33	21.65	22.12
		50@0	22.31	21.45	21.73
	16-QAM	1@0	22.32	22.27	22.48
		1@25	22.14	22.27	21.98
		1@49	22.47	22.45	22.32
		25@0	21.94	21.80	21.66
		25@12	21.54	21.58	21.40
		25@25	21.13	21.11	21.10
		50@0	20.89	20.57	20.66
15M	QPSK	1@0	22.87	22.94	22.76
		1@37	23.07	23.01	22.95
		1@74	23.09	23.34	23.11
		36@0	22.79	22.72	22.80
		36@20	22.57	22.68	22.71
		36@39	22.36	22.36	22.73
		75@0	21.96	22.27	22.55
	16-QAM	1@0	22.33	22.66	22.55
		1@37	22.25	22.31	22.25
		1@74	22.43	22.22	22.35
		36@0	22.01	22.04	22.07
		36@20	21.65	21.68	21.61
		36@39	21.39	21.27	21.55
		75@0	20.86	20.92	21.42
20M	QPSK	1@0	23.74	23.46	23.36
		1@49	23.37	23.78	23.63
		1@99	23.48	23.39	23.55
		50@0	23.58	23.3	23.28
		50@24	23.21	23.62	23.47
		50@50	23.32	23.23	23.39
		100@0	23.22	23.25	23.33
	16-QAM	1@0	22.42	22.59	22.36
		1@49	22.34	22.45	22.29
		1@99	22.40	22.25	22.42
		50@0	22.07	22.12	22.01
		50@24	21.62	21.68	21.64
		50@50	21.45	21.31	21.36
		100@0	21.05	21.00	21.21

LTE Band 26:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	23.18	23.05	22.75
		1@3	23.05	22.95	23.04
		1@5	22.89	22.88	22.97
		3@0	22.51	22.51	22.54
		3@1	22.57	22.43	22.41
		3@3	22.08	22.12	22.14
		6@0	22.04	22.03	21.78
	16-QAM	1@0	22.4	22.43	22.08
		1@3	22.24	22.19	22.07
		1@5	22.29	22.29	22.09
		3@0	22.06	22.02	21.71
		3@1	21.73	21.64	21.50
		3@3	21.38	21.30	21.07
		6@0	20.97	20.92	20.86
3M	QPSK	1@0	23.03	23.06	22.83
		1@8	23.17	23.12	22.75
		1@14	23.22	23.11	22.80
		8@0	22.63	22.67	22.52
		8@4	22.37	22.40	22.37
		8@7	22.18	22.12	22.16
		15@0	21.97	22.02	22.00
	16-QAM	1@0	22.38	22.38	22.32
		1@8	22.56	22.44	22.06
		1@14	22.37	22.28	21.99
		8@0	21.92	21.92	21.72
		8@4	21.8	21.67	21.53
		8@7	21.23	21.25	21.22
		15@0	21.1	20.98	20.94
5M	QPSK	1@0	23.1	23.07	22.85
		1@12	23.22	23.10	22.91
		1@24	23	22.87	22.82
		12@0	22.75	22.79	22.57
		12@7	22.64	22.53	22.51
		12@13	22.24	22.17	22.16
		25@0	22.13	22.01	21.99
	16-QAM	1@0	22.43	22.31	22.25
		1@12	22.37	22.40	22.23
		1@24	22.55	22.47	22.01
		12@0	21.93	21.97	21.62
		12@7	21.81	21.75	21.58
		12@13	21.41	21.36	21.21
		25@0	21.15	21.09	21.00

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	23.15	23.19	23.30
		1@25	23.25	23.23	22.78
		1@49	23.38	23.34	23.12
		25@0	22.84	22.85	22.65
		25@12	22.6	22.54	22.43
		25@25	22.32	22.27	22.24
		50@0	22.22	22.14	22.14
	16-QAM	1@0	22.54	22.54	22.76
		1@25	22.51	22.37	22.12
		1@49	22.95	22.87	22.32
		25@0	22.11	21.96	21.81
		25@12	21.74	21.64	21.42
		25@25	21.38	21.33	21.14
		50@0	21.19	21.08	20.99
15M	QPSK	1@0	23.62	23.55	23.34
		1@37	23.46	23.32	23.12
		1@74	23.59	23.57	23.08
		36@0	23.16	23.06	22.92
		36@20	22.89	22.78	22.64
		36@39	22.51	22.43	22.34
		75@0	22.37	22.31	22.16
	16-QAM	1@0	22.72	22.63	22.61
		1@37	22.55	22.59	22.50
		1@74	23.1	22.97	22.88
		36@0	22.38	22.25	22.09
		36@20	21.77	21.79	21.91
		36@39	21.58	21.47	21.58
		75@0	21.34	21.24	21.17

LTE Band 41:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2550MHz (dBm)	Mid Channel (dBm)	2642MHz (dBm)	High Channel (dBm)
5M	QPSK	1@0	23.1	22.97	23.13	22.79	22.56
		1@12	22.86	22.74	22.82	22.45	22.34
		1@24	22.96	22.90	22.60	22.57	22.51
		12@0	22.63	22.50	22.18	22.47	22.27
		12@7	22.66	22.43	21.94	22.24	22.07
		12@13	22.26	22.14	21.56	21.82	21.70
		25@0	22.2	22.09	21.38	21.67	21.50
	16-QAM	1@0	22.49	22.33	21.76	22.24	22.19
		1@12	22.28	22.15	21.56	22.53	22.35
		1@24	22.33	22.32	22.51	22.42	22.19
		12@0	21.93	21.92	21.41	22.21	21.99
		12@7	21.71	21.61	21.06	21.82	21.70
		12@13	21.47	21.22	20.68	21.76	21.57
		25@0	21.13	20.94	20.43	21.36	21.25
10M	QPSK	1@0	23.09	23.16	22.48	22.84	22.71
		1@25	23.11	23.03	22.43	22.61	22.42
		1@49	23.12	23.13	22.39	22.29	22.23
		25@0	22.99	22.80	22.15	23.05	22.82
		25@12	22.58	22.42	21.92	22.83	22.60
		25@25	22.36	22.35	21.67	21.44	21.22
		50@0	22.09	22.00	21.47	21.01	20.80
	16-QAM	1@0	22.6	22.59	22.00	22.43	22.18
		1@25	22.38	22.37	21.61	22.22	22.09
		1@49	22.46	22.44	21.86	22.29	22.09
		25@0	22.03	21.96	21.42	22.04	21.99
		25@12	21.81	21.58	21.21	22.02	21.78
		25@25	21.54	21.37	20.85	21.52	21.45
		50@0	21.19	21.12	20.59	19.96	19.83
15M	QPSK	1@0	22.91	22.78	22.25	22.72	22.51
		1@37	23.02	23.00	22.22	22.49	22.35
		1@74	23.13	22.99	22.29	22.69	22.48
		36@0	22.71	22.57	22.06	22.21	22.11
		36@20	22.52	22.43	21.95	21.92	21.79
		36@39	22.26	22.17	21.59	21.86	21.62
		75@0	22.06	22.06	21.40	21.29	21.23
	16-QAM	1@0	21.97	21.81	21.90	21.74	21.61
		1@37	22.22	22.13	21.94	22.07	22.02
		1@74	22.19	22.14	21.80	22.24	22.16
		36@0	21.87	21.71	21.55	22.07	22.00
		36@20	21.56	21.58	21.39	21.76	21.66
		36@39	21.52	21.45	21.10	21.63	21.52
		75@0	21.14	21.04	20.87	21.28	21.12

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2550MHz (dBm)	Mid Channel (dBm)	2642MHz (dBm)	High Channel (dBm)
20M	QPSK	1@0	22.87	22.74	22.33	22.61	22.53
		1@49	23.15	23.15	22.45	22.74	22.69
		1@99	23.12	23.08	22.67	22.84	22.66
		50@0	22.98	22.73	22.10	22.31	22.20
		50@24	22.7	22.58	21.89	22.17	22.08
		50@50	22.58	22.53	21.63	21.95	21.71
		100@0	22.6	22.44	21.58	21.80	21.61
	16-QAM	1@0	22.36	22.12	21.49	21.97	21.89
		1@49	22.35	22.23	21.50	21.75	21.55
		1@99	22.42	22.20	21.48	22.05	21.87
		50@0	21.68	21.63	21.13	21.69	21.50
		50@24	21.67	21.65	21.94	21.41	21.30
		50@50	21.61	21.49	21.64	21.46	21.22
		100@0	21.13	20.96	20.49	20.92	20.83

LTE Band 66:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	22.77	22.84	22.68
		1@3	22.74	22.62	22.76
		1@5	22.95	22.95	22.69
		3@0	22.68	22.45	22.41
		3@1	22.55	22.14	22.34
		3@3	22.41	21.81	22.03
		6@0	22.47	21.65	21.73
	16-QAM	1@0	21.93	22.26	22.23
		1@3	21.81	22.08	21.67
		1@5	21.97	21.74	21.57
		3@0	21.47	21.58	21.15
		3@1	21.32	21.31	20.69
		3@3	20.89	20.98	20.42
		6@0	20.85	20.72	20.12
3M	QPSK	1@0	22.87	22.86	22.75
		1@8	22.87	22.70	22.78
		1@14	22.70	22.62	22.70
		8@0	22.57	22.40	22.47
		8@4	22.22	22.14	22.20
		8@7	21.89	21.90	21.99
		15@0	21.70	21.74	21.86
	16-QAM	1@0	21.69	22.16	22.27
		1@8	22.16	21.91	22.04
		1@14	21.79	21.76	21.95
		8@0	21.58	21.47	21.67
		8@4	21.18	21.07	21.33
		8@7	20.94	20.89	20.97
		15@0	20.71	20.48	20.71
5M	QPSK	1@0	22.92	22.74	23.06
		1@12	22.73	22.58	23.07
		1@24	22.97	22.87	22.75
		12@0	22.69	22.51	22.43
		12@7	22.64	22.10	22.32
		12@13	22.52	21.82	22.06
		25@0	22.38	21.59	21.75
	16-QAM	1@0	22.02	22.24	22.07
		1@12	22.16	21.93	21.94
		1@24	21.77	21.92	21.94
		12@0	21.54	21.56	21.46
		12@7	21.34	21.26	21.29
		12@13	21.03	21.07	21.05
		25@0	20.71	20.60	20.70

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	22.68	22.87	23.23
		1@25	22.99	23.03	23.07
		1@49	23.06	22.86	22.99
		25@0	22.56	22.52	22.80
		25@12	22.09	22.28	22.40
		25@25	21.80	21.96	22.22
		50@0	21.64	21.67	21.82
	16-QAM	1@0	21.43	21.28	21.43
		1@25	21.95	22.00	22.00
		1@49	22.36	22.39	22.29
		25@0	21.27	21.19	21.29
		25@12	21.15	21.09	21.13
		25@25	20.94	20.82	20.84
		50@0	20.68	20.67	20.71
15M	QPSK	1@0	22.84	22.99	22.98
		1@37	23.04	22.79	22.66
		1@74	23.07	22.82	22.66
		36@0	22.72	22.71	22.27
		36@20	22.70	22.71	22.18
		36@39	22.57	22.60	20.90
		75@0	22.36	22.37	21.50
	16-QAM	1@0	23.20	22.13	22.34
		1@37	23.14	21.92	21.99
		1@74	22.52	22.04	22.12
		36@0	22.44	21.44	21.57
		36@20	22.34	21.26	21.22
		36@39	22.24	21.01	20.86
		75@0	22.17	20.48	20.59
20M	QPSK	1@0	23.34	23.52	23.21
		1@49	23.69	23.24	23.27
		1@99	23.56	23.16	23.64
		50@0	23.54	23.46	23.33
		50@24	23.42	23.27	23.25
		50@50	23.15	23.13	23.16
		100@0	23.27	23.24	23.18
	16-QAM	1@0	22.31	21.89	21.90
		1@49	21.97	21.87	22.01
		1@99	22.51	22.22	22.29
		50@0	21.59	21.49	21.60
		50@24	21.19	21.01	21.26
		50@50	20.92	20.59	20.93
		100@0	20.64	20.33	20.51

LTE Band 71:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Mid Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	22.98	22.94	22.87
		1@12	22.93	22.79	22.78
		1@24	22.68	22.86	22.82
		12@0	22.42	22.63	22.59
		12@7	22.22	22.42	22.34
		12@13	22.12	22.12	22.30
		25@0	22.01	21.79	21.83
	16-QAM	1@0	22.35	22.22	22.18
		1@12	22.22	22.10	22.21
		1@24	22.12	22.16	22.20
		12@0	21.86	21.76	21.78
		12@7	21.64	21.60	21.57
		12@13	21.41	21.24	21.43
		25@0	21.07	20.79	21.11
10M	QPSK	1@0	23.15	23.45	23.24
		1@25	22.97	22.97	22.83
		1@49	23.02	23.01	23.03
		25@0	22.63	22.73	22.71
		25@12	22.54	22.50	22.52
		25@25	22.34	22.30	22.24
		50@0	21.99	22.10	21.87
	16-QAM	1@0	22.52	22.59	22.37
		1@25	22.21	22.21	22.16
		1@49	22.27	22.08	22.26
		25@0	22.00	21.78	21.92
		25@12	21.74	21.55	21.65
		25@25	21.30	21.26	21.39
		50@0	20.94	21.12	21.13
15M	QPSK	1@0	23.51	23.36	23.34
		1@37	22.75	22.65	22.84
		1@74	22.87	22.85	22.69
		36@0	22.72	22.76	22.75
		36@20	22.45	22.53	22.47
		36@39	22.39	22.33	22.41
		75@0	21.95	22.08	22.03
	16-QAM	1@0	22.65	22.47	22.46
		1@37	21.88	22.12	22.11
		1@74	21.88	22.17	22.16
		36@0	21.71	21.71	21.88
		36@20	21.48	21.48	21.66
		36@39	21.33	21.22	21.36
		75@0	21.03	21.10	21.12

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Mid Channel (dBm)	High Channel (dBm)
20M	QPSK	1@0	23.75	23.66	23.61
		1@49	23.46	23.47	23.58
		1@99	23.33	23.37	23.45
		50@0	23.39	23.26	23.32
		50@24	23.18	23.16	22.95
		50@50	23.13	23.1	22.94
		100@0	22.97	22.95	22.88
	16-QAM	1@0	21.87	22.15	22.15
		1@49	21.88	22.08	22.05
		1@99	21.87	22.07	21.74
		50@0	21.58	21.75	21.58
		50@24	21.44	21.44	21.40
		50@50	21.25	21.17	21.13
		100@0	20.98	20.85	20.87

WLAN 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11b	2412	1Mbps	98.75	17.64
	2437			17.96
	2462			17.85
802.11g	2412	6Mbps	98.11	13.05
	2437			12.49
	2462			13.19
802.11n ht20	2412	MCS0	97.92	11.86
	2437			12.26
	2462			12.06
802.11n ht40	2422	MCS0	94.69	11.24
	2437			12.11
	2452			12.01

Note: The duty cycle plots, please refer to the radio report: 2502Y81547E-RF-00C, which was issued by Bay Area Compliance Laboratories Corp. (Dongguan).

WLAN 5.2G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11a	5180	6Mbps	98.11	14.02
	5200			13.89
	5240			13.63
802.11n20	5180	MCS0	98.02	14.53
	5200			14.22
	5240			14.09
802.11n40	5190	MCS0	96.17	13.19
	5230			14.67
802.11ac20	5180	MCS0	98.04	14.58
	5200			15.10
	5240			14.08
802.11ac40	5190	MCS0	96.19	13.29
	5230			15.20
802.11ac80	5210	MCS0	92.68	13.51

Note: The duty cycle plots, please refer to the radio report: 2502Y81547E-RF-00D, which was issued by Bay Area Compliance Laboratories Corp. (Dongguan).

WLAN 5.3G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11a	5260	6Mbps	98.11	14.71
	5280			14.36
	5320			13.94
802.11n20	5260	MCS0	98.02	14.56
	5280			14.44
	5320			13.79
802.11n40	5270	MCS0	96.17	14.78
	5310			15.20
802.11ac20	5260	MCS0	98.04	14.81
	5280			15.22
	5320			14.34
802.11ac40	5270	MCS0	96.19	15.85
	5310			14.53
802.11ac80	5290	MCS0	92.68	13.10

Note: The duty cycle plots, please refer to the radio report: 2502Y81547E-RF-00D, which was issued by Bay Area Compliance Laboratories Corp. (Dongguan).

WLAN 5.6G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11a	5500	6Mbps	98.11	13.90
	5580			13.83
	5700			14.85
802.11n20	5500	MCS0	98.02	13.78
	5580			13.80
	5700			13.74
802.11n40	5510	MCS0	96.17	15.50
	5550			14.79
	5670			15.68
802.11ac20	5500	MCS0	98.04	14.18
	5580			14.67
	5700			15.37
802.11ac40	5510	MCS0	96.19	15.02
	5550			15.21
	5670			16.12
802.11ac80	5530	MCS0	92.68	13.36
	5610			13.82

Note: The duty cycle plots, please refer to the radio report: 2502Y81547E-RF-00D, which was issued by Bay Area Compliance Laboratories Corp. (Dongguan).

WLAN 5.8G:

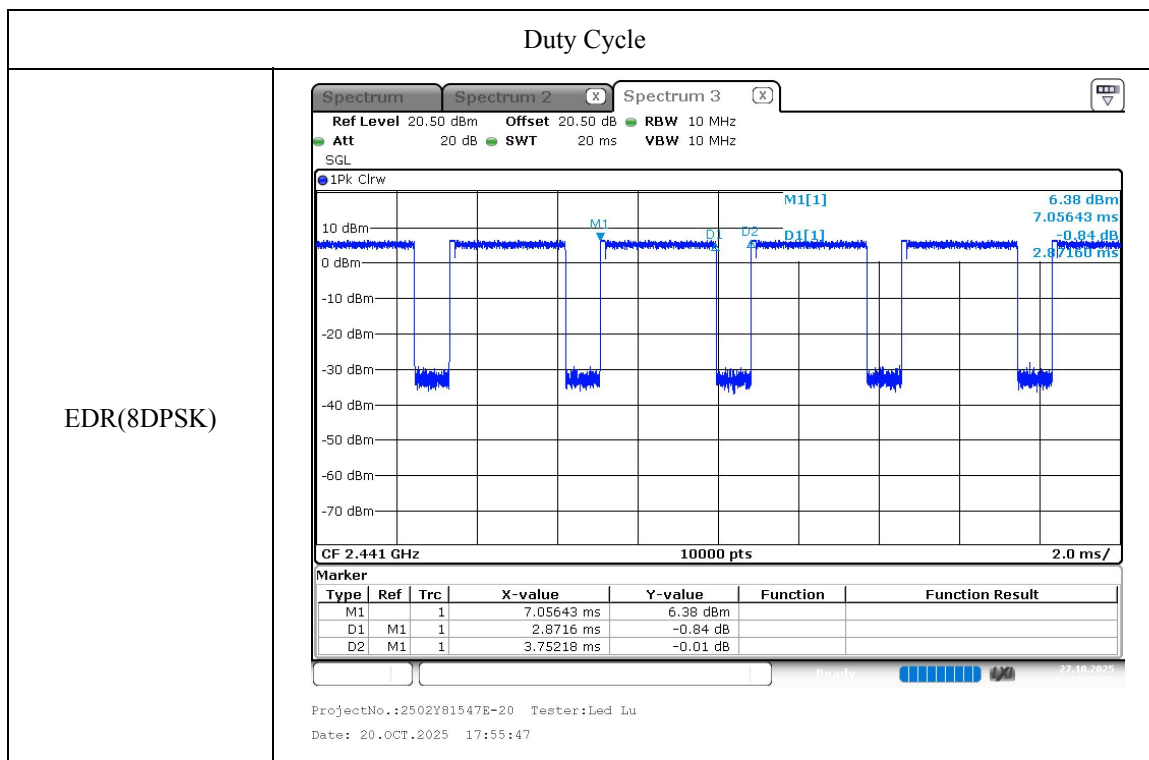
Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11a	5745	6Mbps	98.11	15.18
	5785			14.57
	5825			14.32
802.11n20	5745	MCS0	98.02	14.76
	5785			14.52
	5825			14.08
802.11n40	5755	MCS0	96.17	14.90
	5795			14.91
802.11ac20	5745	MCS0	98.04	15.58
	5785			14.86
	5825			14.05
802.11ac40	5755	MCS0	96.19	16.42
	5795			16.45
802.11ac80	5775	MCS0	92.68	14.52

Note: The duty cycle plots, please refer to the radio report: 2502Y81547E-RF-00D, which was issued by Bay Area Compliance Laboratories Corp. (Dongguan).

Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
BDR(GFSK)	2402	6.84
	2441	8.30
	2480	8.56
EDR($\pi/4$ -DQPSK)	2402	7.43
	2441	8.95
	2480	9.10
EDR(8DPSK)	2402	8.07
	2441	9.23
	2480	9.54
BLE 1Mbps	2402	0.24
	2440	1.22
	2480	1.12

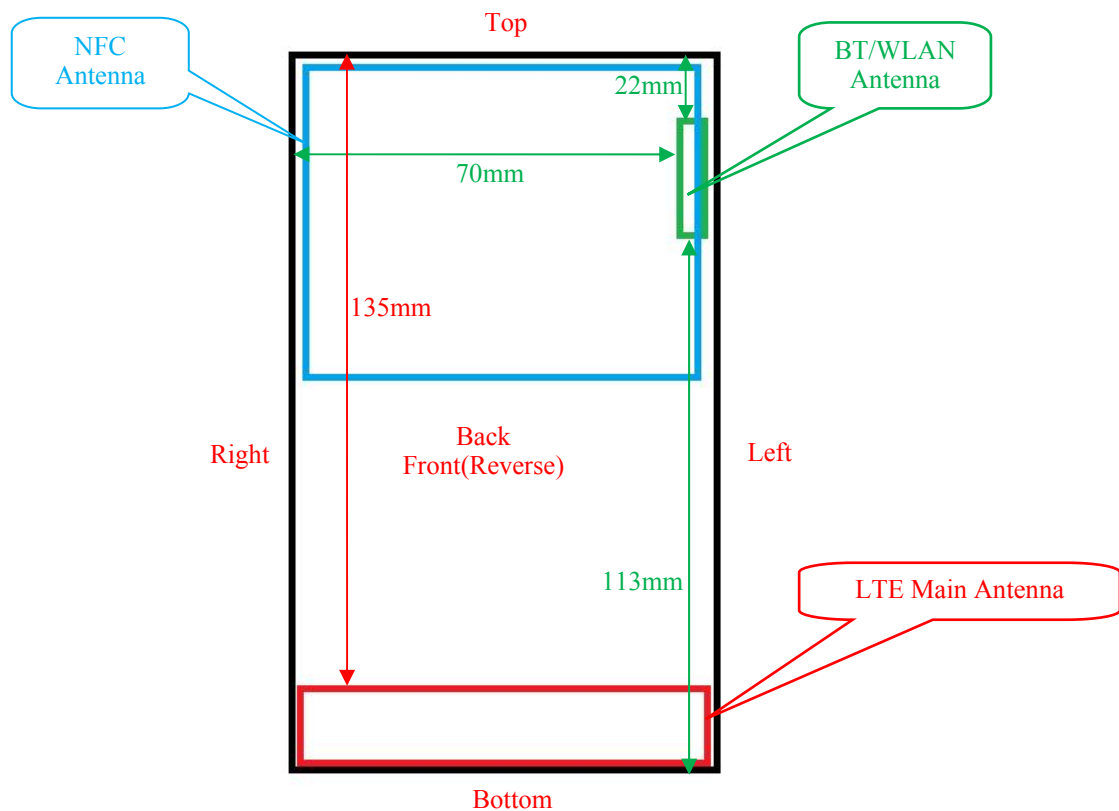
Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	Scaled Factor (1/duty cycle)
EDR(8DPSK)	2.87	3.75	76.5%	1.3



Note: The duty cycle was measured under radiation method.

8. STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

8.1 Antennas Location:



8.2 Antenna Distance To Edge

Antenna Distance To Edge(mm)						
Antenna	Back	Front	Left	Right	Top	Bottom
LTE Main Antenna	< 5	8	< 5	< 5	135	< 5
BT/WLAN Antenna	< 5	< 5	< 5	70	22	113

8.3 Standalone SAR test exclusion considerations

Body

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
WLAN 2.4G	2462	18.5	70.8	10	11.1	3.0	NO
WLAN 5.2G	5240	15.5	35.5	10	8.1	3.0	NO
WLAN 5.3G	5320	16	39.8	10	9.2	3.0	NO
WLAN 5.6G	5700	16.5	44.7	10	10.7	3.0	NO
WLAN 5.8G	5825	16.5	44.7	10	10.8	3.0	NO
Bluetooth	2480	10	10	10	1.6	3.0	YES

Limb

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (10-g)	SAR Test Exclusion
WLAN 2.4G	2462	18.5	70.8	0	22.2	7.5	NO
WLAN 5.2G	5240	15.5	35.5	0	16.3	7.5	NO
WLAN 5.3G	5320	16	39.8	0	18.4	7.5	NO
WLAN 5.6G	5700	16.5	44.7	0	21.3	7.5	NO
WLAN 5.8G	5825	16.5	44.7	0	21.6	7.5	NO
Bluetooth	2480	10	10	0	3.1	7.5	YES

Note: The WLAN based average power for calculation. and bluetooth based peak output power for calculation.

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

According to KDB447498 D01 General RF Exposure Guidance v06: 4.3. General SAR test exclusion guidance

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

Measurement Result:

For NFC, the power of EUT: E Field@3m is 73.65dBuV/m@3m= -21.55dBm (0.01mW)

Note: $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$ for $d = 3$ m.

SAR test exclusion threshold for NFC(13.56MHz) separation distance < 50 mm

$$= [474 * (1 + \log(100/f(\text{MHz}))) / 2]$$

$$= 443\text{mW}$$

$$> 0.01\text{mW}$$

Conclusion:

The NFC SAR evaluation can be exempted.

Note:

1. The E Field value of NFC, please refer to the report: 2502Y81547E-RF-00F, which was issued by Bay Area Compliance Laboratories Corp. (Dongguan).

8.4 SAR test exclusion for the EUT edge considerations Result

Mode	Front Edge	Back Edge	Left Edge	Right Edge	Top Edge	Bottom Edge
WWAN(LTE)	Required	Required	Required	Required	Exclusion	Required
WLAN 2.4G/5G	Required	Required	Required	Exclusion	Required	Exclusion
Bluetooth	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*

Note:

Required: The distance to Edge is less than 25mm, testing is required.

Exclusion: The distance to Edge is more than 25 mm, testing is not required.

Exclusion*: SAR test exclusion evaluation has been done above.

The Bluetooth SAR was selected to test.

9. SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

9.1 SAR Test Data

Environmental Conditions

Environmental Temperature:	21.2-22.1 °C	20.6-21.9 °C	20.4-21.2 °C	20.2-21.1 °C
Relative Humidity:	49%	29%	28%	39%
ATM Pressure:	101.4 kPa	101.9 kPa	101.8 kPa	101.7 kPa
Test Date:	2025/11/17	2025/11/20	2025/11/21	2025/11/22

Testing was performed by Lily Yang, Mikasa Mo, Led Lu.

Environmental Conditions

Environmental Temperature:	20.5-21.4 °C	20.7-21.6 °C	/	/
Relative Humidity:	43%	32%	/	/
ATM Pressure:	101.3 kPa	101.4 kPa	/	/
Test Date:	2025/11/24	2025/11/25	/	/

Testing was performed by Mikasa Mo, Led Lu.

LTE Band 7:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.17	23.5	1.079	0.516	0.56	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	22.84	23.5	1.164	0.401	0.47	/
Body Back (10mm)	2510	20	1RB	23.23	23.5	1.064	0.706	0.75	/
	2535	20	1RB	23.17	23.5	1.079	0.721	0.78	1#
	2560	20	1RB	23.02	23.5	1.117	0.655	0.73	/
	2535	20	50%RB	22.84	23.5	1.164	0.591	0.69	/
Body Left (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.17	23.5	1.079	0.111	0.12	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	22.84	23.5	1.164	0.084	0.1	/
Body Right (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.17	23.5	1.079	0.552	0.6	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	22.84	23.5	1.164	0.424	0.49	/
Body Bottom (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.17	23.5	1.079	0.256	0.28	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	22.84	23.5	1.164	0.202	0.24	/

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Back (0mm)	2510	20	1RB	23.23	23.5	1.064	2.54	2.7	/
	2535	20	1RB	23.17	23.5	1.079	2.57	2.77	2#
	2560	20	1RB	23.02	23.5	1.117	2.47	2.76	/
	2510	20	50%RB	22.86	23.5	1.159	1.91	2.21	/
	2535	20	50%RB	22.84	23.5	1.164	2.01	2.34	/
	2560	20	50%RB	22.66	23.5	1.213	2	2.43	/
	2535	20	100%RB	21.93	23.5	1.435	1.74	2.5	/

LTE Band 12&17:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.34	23.5	1.038	0.3	0.31	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	22.73	23.5	1.194	0.158	0.19	/
Body Back (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.34	23.5	1.038	0.431	0.45	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	22.73	23.5	1.194	0.326	0.39	/
Body Left (10mm)	704	10	1RB	23.42	23.5	1.019	0.404	0.41	/
	707.5	10	1RB	23.34	23.5	1.038	0.45	0.47	3#
	711	10	1RB	23.15	23.5	1.084	0.427	0.46	/
	707.5	10	50%RB	22.73	23.5	1.194	0.34	0.41	/
Body Right (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.34	23.5	1.038	0.308	0.32	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	22.73	23.5	1.194	0.233	0.28	/
Body Bottom (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.34	23.5	1.038	0.090	0.09	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	22.73	23.5	1.194	0.068	0.08	/

Note: The test data above was performed on 2025/11/20.

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	704	10	1RB	23.42	23.5	1.019	0.477	0.49	/
	707.5	10	1RB	23.34	23.5	1.038	0.484	0.5	4#
	711	10	1RB	23.15	23.5	1.084	0.418	0.45	/
	707.5	10	50%RB	22.73	23.5	1.194	0.36	0.43	/

Note: The test data above was performed on 2025/11/20.

Note:

1.The E-UTRA Operating Band 17 is a subset of band 12, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement, LTE Band 12 (the wide frequency range) was selected to test.

LTE Band 13:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	782	10	1RB	23.21	23.5	1.069	0.311	0.33	/
	782	10	50%RB	23.09	23.5	1.099	0.24	0.26	/
Body Back (10mm)	782	10	1RB	23.21	23.5	1.069	0.462	0.49	/
	782	10	50%RB	23.09	23.5	1.099	0.354	0.39	/
Body Left (10mm)	782	10	1RB	23.21	23.5	1.069	0.564	0.6	5#
	782	10	50%RB	23.09	23.5	1.099	0.426	0.47	/
Body Right (10mm)	782	10	1RB	23.21	23.5	1.069	0.35	0.37	/
	782	10	50%RB	23.09	23.5	1.099	0.258	0.28	/
Body Bottom (10mm)	782	10	1RB	23.21	23.5	1.069	0.146	0.16	/
	782	10	50%RB	23.09	23.5	1.099	0.118	0.13	/

Note: The test data above was performed on 2025/11/20.

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	782	10	1RB	23.21	23.5	1.069	0.391	0.42	6#
	782	10	50%RB	23.09	23.5	1.099	0.331	0.36	/

Note: The test data above was performed on 2025/11/20.

LTE Band 14:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	793	10	1RB	23.45	23.5	1.012	0.316	0.32	/
	793	10	50%RB	22.96	23.5	1.132	0.229	0.26	/
Body Back (10mm)	793	10	1RB	23.45	23.5	1.012	0.356	0.36	/
	793	10	50%RB	22.96	23.5	1.132	0.26	0.29	/
Body Left (10mm)	793	10	1RB	23.45	23.5	1.012	0.496	0.5	7#
	793	10	50%RB	22.96	23.5	1.132	0.363	0.41	/
Body Right (10mm)	793	10	1RB	23.45	23.5	1.012	0.169	0.17	/
	793	10	50%RB	22.96	23.5	1.132	0.126	0.14	/
Body Bottom (10mm)	793	10	1RB	23.45	23.5	1.012	0.188	0.19	/
	793	10	50%RB	22.96	23.5	1.132	0.139	0.16	/

Note: The test data above was performed on 2025/11/20.

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	793	10	1RB	23.45	23.5	1.012	0.442	0.45	8#
	793	10	50%RB	22.96	23.5	1.132	0.316	0.36	/

Note: The test data above was performed on 2025/11/20.

LTE Band 25&2:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	23.78	24	1.052	0.51	0.54	/
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	23.62	24	1.091	0.395	0.43	/
Body Back (10mm)	1860	20	1RB	23.74	24	1.062	0.527	0.56	/
	1882.5	20	1RB	23.78	24	1.052	0.618	0.65	9#
	1905	20	1RB	23.63	24	1.089	0.535	0.58	/
	1882.5	20	50%RB	23.62	24	1.091	0.477	0.52	/
Body Left (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	23.78	24	1.052	0.183	0.19	/
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	23.62	24	1.091	0.142	0.16	/
Body Right (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	23.78	24	1.052	0.496	0.52	/
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	23.62	24	1.091	0.373	0.41	/
Body Bottom (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	23.78	24	1.052	0.323	0.34	/
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	23.62	24	1.091	0.243	0.27	/

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Back (0mm)	1860	20	1RB	23.74	24	1.062	2.62	2.78	10#
	1882.5	20	1RB	23.78	24	1.052	2.47	2.6	/
	1905	20	1RB	23.63	24	1.089	2.26	2.46	/
	1860	20	50%RB	23.58	24	1.102	2.05	2.26	/
	1882.5	20	50%RB	23.62	24	1.091	1.91	2.08	/
	1905	20	50%RB	23.47	24	1.13	1.87	2.11	/
	1860	20	100%RB	23.22	24	1.197	1.84	2.2	/
Limb Left (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	23.78	24	1.052	1.23	1.29	/
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	23.62	24	1.091	0.929	1.01	/

Note:

1. The E-UTRA Operating Band 2 is a subset of band 25, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement, LTE Band 25 (the wide frequency range) was selected to test.

2. In order to evaluate the simultaneous transmission of Limb mode, the Limb Left of LTE Band 25&2 (the worst band of WWAN(LTE)) was selected to additional test.

LTE Band 26&5:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	821.5	15	1RB	/	/	/	/	/	/
	836.5	15	1RB	23.57	24	1.104	0.182	0.2	/
	841.5	15	1RB	/	/	/	/	/	/
	836.5	15	50%RB	23.06	24	1.242	0.137	0.17	/
Body Back (10mm)	821.5	15	1RB	/	/	/	/	/	/
	836.5	15	1RB	23.57	24	1.104	0.221	0.24	/
	841.5	15	1RB	/	/	/	/	/	/
	836.5	15	50%RB	23.06	24	1.242	0.165	0.21	/
Body Left (10mm)	821.5	15	1RB	/	/	/	/	/	/
	836.5	15	1RB	23.57	24	1.104	0.36	0.40	11#
	841.5	15	1RB	/	/	/	/	/	/
	836.5	15	50%RB	23.06	24	1.242	0.285	0.35	/
Body Right (10mm)	821.5	15	1RB	/	/	/	/	/	/
	836.5	15	1RB	23.57	24	1.104	0.217	0.24	/
	841.5	15	1RB	/	/	/	/	/	/
	836.5	15	50%RB	23.06	24	1.242	0.16	0.2	/
Body Bottom (10mm)	821.5	15	1RB	/	/	/	/	/	/
	836.5	15	1RB	23.57	24	1.104	0.143	0.16	/
	841.5	15	1RB	/	/	/	/	/	/
	836.5	15	50%RB	23.06	24	1.242	0.108	0.13	/

Note: The test data above was performed on 2025/11/21.

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	821.5	15	1RB	/	/	/	/	/	/
	836.5	15	1RB	23.57	24	1.104	0.29	0.32	12#
	841.5	15	1RB	/	/	/	/	/	/
	836.5	15	50%RB	23.06	24	1.242	0.229	0.28	/

Note: The test data above was performed on 2025/11/21.

Note:

1.The E-UTRA Operating Band 5 is a subset of band 26, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement, LTE Band 26 (the wide frequency range) was selected to test.

LTE Band 41:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2595	20	1RB	22.67	23.5	1.211	0.311	0.38	/
	2642	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2595	20	50%RB	22.1	23.5	1.38	0.249	0.34	/
Body Back (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2595	20	1RB	22.67	23.5	1.211	0.435	0.53	13#
	2642	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2595	20	50%RB	22.1	23.5	1.38	0.246	0.34	/
Body Left (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2595	20	1RB	22.67	23.5	1.211	0.094	0.11	/
	2642	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2595	20	50%RB	22.1	23.5	1.38	0.077	0.11	/
Body Right (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2595	20	1RB	22.67	23.5	1.211	0.275	0.33	/
	2642	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2595	20	50%RB	22.1	23.5	1.38	0.22	0.3	/
Body Bottom (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2595	20	1RB	22.67	23.5	1.211	0.162	0.2	/
	2642	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2595	20	50%RB	22.1	23.5	1.38	0.131	0.18	/

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Back (0mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2595	20	1RB	22.67	23.5	1.211	1.32	1.6	14#
	2642	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2595	20	50%RB	22.1	23.5	1.38	1.08	1.49	/

Note:

1. The frequency range of LTE Band 41 is 2496~2690MHz. Per KDB 447498 D01, according to the following formula Calculate N_c is 5.

KDB procedures, the following should be applied to determine the number of required test channels. The test channels should be evenly spread across the transmission frequency band of each wireless mode.¹⁴

$$N_c = \text{Round} \left\{ \left[100(f_{\text{high}} - f_{\text{low}}) / f_c \right]^{0.5} \times (f_c / 100)^{0.2} \right\},$$

where

- N_c is the number of test channels, rounded to the nearest integer,
- f_{high} and f_{low} are the highest and lowest channel frequencies within the transmission band,
- f_c is the mid-band channel frequency,
- all frequencies are in MHz.

LTE Band 66&4:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.52	24	1.117	0.211	0.24	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.46	24	1.132	0.187	0.21	/
Body Back (10mm)	1720	20	1RB	23.69	24	1.074	0.337	0.36	/
	1745	20	1RB	23.52	24	1.117	0.415	0.46	15#
	1770	20	1RB	23.64	24	1.086	0.372	0.4	/
	1745	20	50%RB	23.46	24	1.132	0.371	0.42	/
Body Left (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.52	24	1.117	0.090	0.1	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.46	24	1.132	0.077	0.09	/
Body Right (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.52	24	1.117	0.271	0.3	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.46	24	1.132	0.231	0.26	/
Body Bottom (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.52	24	1.117	0.274	0.31	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.46	24	1.132	0.225	0.26	/

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Back (0mm)	1720	20	1RB	23.69	24	1.074	2.17	2.33	/
	1745	20	1RB	23.52	24	1.117	2.15	2.4	/
	1770	20	1RB	23.64	24	1.086	2.32	2.52	16#
	1720	20	50%RB	23.54	24	1.112	1.75	1.95	/
	1745	20	50%RB	23.46	24	1.132	1.78	2.02	/
	1770	20	50%RB	23.33	24	1.167	2.05	2.39	/
	1770	20	100%RB	23.18	24	1.208	2.02	2.44	/

Note:

1.The E-UTRA Operating Band 4 is a subset of band 66, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement, LTE Band 66 (the wide frequency range) was selected to test.

LTE Band 71:**Body Mode:**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.66	24	1.081	0.158	0.17	/
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.26	24	1.186	0.127	0.15	/
Body Back (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.66	24	1.081	0.295	0.32	/
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.26	24	1.186	0.233	0.28	/
Body Left (10mm)	673	20	1RB	23.75	24	1.059	0.276	0.29	/
	683	20	1RB	23.66	24	1.081	0.321	0.35	/
	688	20	1RB	23.61	24	1.094	0.336	0.37	17#
	683	20	50%RB	23.26	24	1.186	0.278	0.33	/
Body Right (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.66	24	1.081	0.233	0.25	/
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.26	24	1.186	0.211	0.25	/
Body Bottom (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.66	24	1.081	0.076	0.08	/
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.26	24	1.186	0.066	0.08	/

Note: The test data above was performed on 2025/11/21

Limb Mode:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	673	20	1RB	23.75	24	1.059	0.353	0.37	/
	683	20	1RB	23.66	24	1.081	0.377	0.41	/
	688	20	1RB	23.61	24	1.094	0.382	0.42	18#
	683	20	50%RB	23.26	24	1.186	0.332	0.39	/

Note: The test data above was performed on 2025/11/21

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02r05.
3. KDB 941225 D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > 0.5 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg
4. KDB 941225 D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is < 1.45 W/kg, tests for the remaining required test channels are optional.
5. KDB 941225 D05- For 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.
6. KDB 941225 D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.
7. KDB 941225 D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > 0.5 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.
8. Per the test results of Body Mode, the worst side was selected to test for Limb mode.

WLAN 2.4G:**Body Mode:**

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	2412	802.11b	17.64	18.5	1.219	1.01	0.305	0.38	/
	2437	802.11b	17.96	18.5	1.132	1.01	0.304	0.35	/
	2462	802.11b	17.85	18.5	1.161	1.01	0.321	0.38	19#
Body Back (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	17.96	18.5	1.132	1.01	0.080	0.09	/
	2462	802.11b	/	/	/	/	/	/	/
Body Left (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	17.96	18.5	1.132	1.01	0.282	0.32	/
	2462	802.11b	/	/	/	/	/	/	/
Body Top (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	17.96	18.5	1.132	1.01	0.077	0.09	/
	2462	802.11b	/	/	/	/	/	/	/

Limb Mode:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Limb Front (0mm)	2412	802.11b	17.64	18.5	1.219	1.01	0.439	0.54	/
	2437	802.11b	17.96	18.5	1.132	1.01	0.414	0.47	/
	2462	802.11b	17.85	18.5	1.161	1.01	0.465	0.55	20#

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. KDB 248227 D01-SAR measurement is not required for 2.4 GHz OFDM(802.11g/n) when the highest reported SAR for DSSS(802.11b) is ≤ 1.2 W/kg, and the output power for DSSS is not less than that for OFDM.
4. According to KDB 248227 D01, for SAR testing of WLAN with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
5. Per the test results of Body Mode, the worst side was selected to test for Limb mode.

WLAN 5.2G:**Body Mode:**

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	5190	802.11ac40	/	/	/	/	/	/	/
	5230	802.11ac40	15.2	15.5	1.072	1.04	0.059	0.07	/
Body Back (10mm)	5190	802.11ac40	/	/	/	/	/	/	/
	5230	802.11ac40	15.2	15.5	1.072	1.04	0.188	0.21	/
Body Left (10mm)	5190	802.11ac40	13.29	13.5	1.05	1.04	0.173	0.19	/
	5230	802.11ac40	15.2	15.5	1.072	1.04	0.314	0.35	21#
Body Top (10mm)	5190	802.11ac40	/	/	/	/	/	/	/
	5230	802.11ac40	15.2	15.5	1.072	1.04	0.051	0.06	/

Limb Mode:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	5190	802.11ac40	13.29	13.5	1.05	1.04	0.413	0.45	/
	5230	802.11ac40	15.2	15.5	1.072	1.04	0.729	0.81	22#

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. For 802.11ac40 mode power is the largest among 802.11a/n/ac, 802.11ac40 mode as initial test configuration is selected to test.
4. According to KDB 248227 D01, for SAR testing of WLAN with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
5. Per the test results of Body Mode, the worst side was selected to test for Limb mode.

WLAN 5.3G:**Body Mode:**

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	5270	802.11ac40	15.85	16	1.035	1.04	0.065	0.07	/
	5310	802.11ac40	/	/	/	/	/	/	/
Body Back (10mm)	5270	802.11ac40	15.85	16	1.035	1.04	0.179	0.19	/
	5310	802.11ac40	/	/	/	/	/	/	/
Body Left (10mm)	5270	802.11ac40	15.85	16	1.035	1.04	0.43	0.46	23#
	5310	802.11ac40	14.53	15	1.114	1.04	0.395	0.46	/
Body Top (10mm)	5270	802.11ac40	15.85	16	1.035	1.04	0.043	0.05	/
	5310	802.11ac40	/	/	/	/	/	/	/

Limb Mode:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	5270	802.11ac40	15.85	16	1.035	1.04	0.699	0.75	24#
	5310	802.11ac40	14.53	15	1.114	1.04	0.558	0.65	/

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. For 802.11ac40 mode power is the largest among 802.11a/n/ac, 802.11 ac40 mode as initial test configuration is selected to test.
4. According to KDB 248227 D01, for SAR testing of WLAN with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
5. Per the test results of Body Mode, the worst side was selected to test for Limb mode.

WLAN 5.6G:**Body Mode:**

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	/	/	/	/	/	/	/
	5670	802.11ac40	16.12	16.5	1.091	1.04	0.084	0.10	/
Body Back (10mm)	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	/	/	/	/	/	/	/
	5670	802.11ac40	16.12	16.5	1.091	1.04	0.508	0.58	/
Body Left (10mm)	5510	802.11ac40	15.02	15.5	1.117	1.04	0.74	0.86	/
	5550	802.11ac40	15.21	15.5	1.069	1.04	0.818	0.91	25#
	5670	802.11ac40	16.12	16.5	1.091	1.04	0.784	0.89	/
Body Top (10mm)	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	/	/	/	/	/	/	/
	5670	802.11ac40	16.12	16.5	1.091	1.04	0.057	0.06	/

Limb Mode:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Limb Back (0mm)	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	/	/	/	/	/	/	/
	5670	802.11ac40	16.12	16.5	1.091	1.04	0.428	0.49	/
Limb Left (0mm)	5510	802.11ac40	15.02	15.5	1.117	1.04	1.16	1.35	/
	5550	802.11ac40	15.21	15.5	1.069	1.04	1.18	1.31	/
	5670	802.11ac40	16.12	16.5	1.091	1.04	1.31	1.49	26#

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. For 802.11ac40 mode power is the largest among 802.11a/n/ac, 802.11ac40 mode as initial test configuration is selected to test.
4. According to KDB 248227 D01, for SAR testing of WLAN with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
5. Per the test results of Body Mode, the worst side was selected to test for Limb mode. In order to evaluate the simultaneous transmission of Limb mode, the Limb Back of WLAN 5.6G (the worst band of WLAN) was selected to additional test.

WLAN 5.8G:**Body Mode:**

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	5755	802.11ac40	/	/	/	/	/	/	/
	5795	802.11ac40	16.45	16.5	1.012	1.04	0.115	0.12	/
Body Back (10mm)	5755	802.11ac40	/	/	/	/	/	/	/
	5795	802.11ac40	16.45	16.5	1.012	1.04	0.614	0.65	/
Body Left (10mm)	5755	802.11ac40	16.42	16.5	1.019	1.04	0.762	0.81	/
	5795	802.11ac40	16.45	16.5	1.012	1.04	0.917	0.97	27#
Body Top (10mm)	5755	802.11ac40	/	/	/	/	/	/	/
	5795	802.11ac40	16.45	16.5	1.012	1.04	0.050	0.05	/

Limb Mode:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	5755	802.11ac40	16.42	16.5	1.019	1.04	1.1	1.17	/
	5795	802.11ac40	16.45	16.5	1.012	1.04	1.16	1.22	28#

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. For 802.11ac40 mode power is the largest among 802.11a/n/ac, 802.11ac40 mode as initial test configuration is selected to test.
4. According to KDB 248227 D01, for SAR testing of WLAN with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
5. Per the test results of Body Mode, the worst side was selected to test for Limb mode.

Bluetooth:**Body Mode:**

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	2402	8DPSK	/	/	/	/	/	/	/
	2441	8DPSK	/	/	/	/	/	/	/
	2480	8DPSK	9.54	10	1.112	1.3	0.00994	0.01	/
Body Back (10mm)	2402	8DPSK	/	/	/	/	/	/	/
	2441	8DPSK	/	/	/	/	/	/	/
	2480	8DPSK	9.54	10	1.112	1.3	0.029	0.04	/
Body Left (10mm)	2402	8DPSK	8.07	9.5	1.39	1.3	0.041	0.07	/
	2441	8DPSK	9.23	9.5	1.064	1.3	0.052	0.07	/
	2480	8DPSK	9.54	10	1.112	1.3	0.061	0.09	29#
Body Top (10mm)	2402	8DPSK	/	/	/	/	/	/	/
	2441	8DPSK	/	/	/	/	/	/	/
	2480	8DPSK	9.54	10	1.112	1.3	0.022	0.03	/

Limb Mode:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Limb Left (0mm)	2402	8DPSK	8.07	9.5	1.39	1.3	0.029	0.05	30#
	2441	8DPSK	9.23	9.5	1.064	1.3	0.033	0.05	/
	2480	8DPSK	9.54	10	1.112	1.3	0.033	0.05	/

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. For 8DPSK mode power is the largest among GFSK, $\pi/4$ -DQPSK, 8DPSK and BLE, 8DPSK mode as initial test configuration is selected to test.
4. According TCB Workshop October 2016, for SAR testing of BT with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
5. Per the test results of Body Mode, the worst side was selected to test for Limb mode.

Spot check

Note: The product has three Configurations and three batteries, Pro-tested the Configurations 1#/2#/3#/4# devices with three batteries 1#/2#/3#, the SAR value of Configuration 1# with battery 1# is higher, so the SAR was selected Configuration 1# with battery 1# for full testing, Configuration 2#/3#/4# with battery 1# were performed spot check.

LTE Band 7:

Body Mode:

Configuration	EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
							Scaled Factor	Meas. SAR	Scaled SAR	Plot
Configuration 2# with battery 1#	Body Back (10mm)	2510	20	1RB	/	/	/	/	/	/
		2535	20	1RB	23.17	23.5	1.079	0.713	0.77	/
		2560	20	1RB	/	/	/	/	/	/
Configuration 3# with battery 1#	Body Back (10mm)	2510	20	1RB	/	/	/	/	/	/
		2535	20	1RB	23.17	23.5	1.079	0.654	0.71	/
		2560	20	1RB	/	/	/	/	/	/
Configuration 4# with battery 1#	Body Back (10mm)	2510	20	1RB	/	/	/	/	/	/
		2535	20	1RB	23.17	23.5	1.079	0.692	0.75	/
		2560	20	1RB	/	/	/	/	/	/

LTE Band 25:

Limb Mode:

Configuration	EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg)			
							Scaled Factor	Meas. SAR	Scaled SAR	Plot
Configuration 2# with battery 1#	Limb Back (0mm)	1860	20	1RB	23.74	24	1.062	2.23	2.37	/
		1882.5	20	1RB	/	/	/	/	/	/
		1905	20	1RB	/	/	/	/	/	/
Configuration 3# with battery 1#	Limb Back (0mm)	1860	20	1RB	23.74	24	1.062	2.36	2.51	/
		1882.5	20	1RB	/	/	/	/	/	/
		1905	20	1RB	/	/	/	/	/	/
Configuration 4# with battery 1#	Limb Back (0mm)	1860	20	1RB	23.74	24	1.062	2.26	2.40	/
		1882.5	20	1RB	/	/	/	/	/	/
		1905	20	1RB	/	/	/	/	/	/

10. MEASUREMENT VARIABILITY

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. 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

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Note: The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The Highest Measured SAR Configuration in Each Frequency Band

Body

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	1g Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
5600MHz Head	WLAN 5.6G	5550	Body Left (10mm)	0.818	0.777	1.05
5800MHz Head	WLAN 5.8G	5795	Body Left (10mm)	0.917	0.906	1.01

Limb

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	10g Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
1750MHz Head	LTE Band 66	1770	Limb Back (0mm)	2.32	2.31	1.00
1900MHz Head	LTE Band 25	1860	Limb Back (0mm)	2.62	2.5	1.05
2600MHz Head	LTE Band 7	2535	Limb Back (0mm)	2.57	2.39	1.08

Note:

1. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
2. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements.

11. DUT HOLDER PERTURBATIONS

In accordance with TCB workshop October 2016:

- 1) SAR perturbation due to test device holders, depending on antenna locations, buttons locations on phones or device, form factor (e.g. dongles etc.), the measured SAR could be influenced by the relative positions of the test device and its holder
- 2) SAR measurement standards have included protocols to evaluate this with a flat phantom, with and without the device holder
- 3) When the highest reported SAR of an antenna is > 1.2 W/kg, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands in the same exact device and holder positions used for head and body SAR measurements; i.e. same device/button locations in the holder

Per IEEE 1528: 2013/Annex E/E.4.1.1: Device holder perturbation tolerance for a specific test device: Type B

When it is unknown if a device holder perturbs the fields of a test device, the SAR uncertainty shall be assessed with a flat phantom (see Clause 5) by comparing the SAR with and without the device holder according to the following tests:

The SAR tolerance for device holder disturbance is computed using Equation (E.21) and entered in the corresponding row of the appropriate uncertainty table with an assumed rectangular probability distribution and $\nu_i = \infty$ degrees of freedom:

$$SAR_{\text{tolerance}}[\%] = 100 \times \left(\frac{SAR_{\text{w/ holder}} - SAR_{\text{w/o holder}}}{SAR_{\text{w/o holder}}} \right) \quad (\text{E.21})$$

The Highest Measured SAR Configuration among all applicable Frequency Band

Frequency Band	Freq.(MHz)	EUT Position	10g Meas. SAR (W/kg)		The Device holder perturbation uncertainty
			With holder	Without holder	
LTE Band 25	1860	Limb Back	2.62	2.5	4.8%

12. SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

12.1 Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	Simultaneous?	Hotspot?
WWAN(LTE) + WLAN 2.4G + NFC	√	√
WWAN(LTE) + WLAN 5.2/5.8G + NFC	√	√
WWAN(LTE) + WLAN 5.3/5.6G + NFC	√	×
WWAN(LTE) + Bluetooth + NFC	√	×
WLAN 2.4G+ Bluetooth + NFC	×	×
WLAN 5G + Bluetooth + NFC	×	×
WLAN 2.4G + WLAN 5G + NFC	×	×

Note:

1.For the EIRP of NFC is 0.01mW, per KDB447498 D01 clause 4.3, the estimated SAR is so lower, so the NFC almost have no influence on the results of simultaneous transmission.

12.2 Simultaneous SAR test exclusion considerations:

Body SAR:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR < 1.6W/kg
		SAR1	SAR2	
WWAN(LTE) + WLAN 2.4G (Hotspot)	Body Front	0.56	0.38	0.94
	Body Back	0.78	0.09	0.87
	Body Left	0.6	0.32	0.92
	Body Right	0.6	0.4	1.00
	Body Top	0.4	0.09	0.49
	Body Bottom	0.34	0.4	0.74
WWAN(LTE) + WLAN 5.2/5.8G (Hotspot)	Body Front	0.56	0.12	0.68
	Body Back	0.78	0.65	1.43
	Body Left	0.6	0.97	1.57
	Body Right	0.6	0.4	1.00
	Body Top	0.4	0.06	0.46
	Body Bottom	0.34	0.4	0.74
WWAN(LTE) + WLAN 5.3/5.6G	Body Front	0.56	0.10	0.66
	Body Back	0.78	0.58	1.36
	Body Left	0.6	0.91	1.51
	Body Right	0.6	0.4	1.00
	Body Top	0.4	0.06	0.46
	Body Bottom	0.34	0.4	0.74
WWAN(LTE) + Bluetooth	Body Front	0.56	0.01	0.57
	Body Back	0.78	0.04	0.82
	Body Left	0.6	0.09	0.69
	Body Right	0.6	0.4	1.00
	Body Top	0.4	0.03	0.43
	Body Bottom	0.34	0.4	0.74

Note: Per KDB 447498 D01, 4.3.2 b), the 0.4W/kg estimated SAR value for 1-g SAR to determine the simultaneous transmission SAR test exclusion criteria when the test separation distance is > 50mm. The estimated SAR value is 0.4W/kg for Body Top of WWAN(LTE), and Body Right/Bottom of WLAN/BT.

Conclusion:

Sum of SAR: $\Sigma \text{SAR} \leq 1.6 \text{ W/kg}$ therefore simultaneous transmission SAR with Volume Scans is **not required**.

Limb SAR:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		$\Sigma \text{SAR} < 4.0 \text{ W/kg}$
		SAR1	SAR2	
WWAN(LTE) + WLAN 2.4G	Limb	2.78	0.55	3.33
WWAN(LTE) + WLAN 5G	Limb Back	2.78	0.49	3.27
	Limb Left	1.29	1.49	2.78
WWAN(LTE) + Bluetooth	Limb	2.78	0.05	2.83

Conclusion:

Sum of SAR: $\Sigma \text{SAR} \leq 4.0 \text{ W/kg}$ therefore simultaneous transmission SAR with Volume Scans is **not required**.

APPENDIX A - MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Uncertainty component	Tolerance/uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration(k=1)	6.55	N	1	1	1	6.6	6.6
Axial isotropy	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.9	1.9
Hemispherical isotropy	9.6	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	3.9	3.9
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Modulation response	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions-noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions-reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. tolerance	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	3.3	N	1	1	1	3.3	3.3
Device holder uncertainty	4.8	N	1	1	1	4.8	4.8
Output power variation –SAR draft measurement	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
SAR scaling	2.8	R	$\sqrt{3}$	1	1	1.6	1.6
Phantom and tissue parameters							
Phantom shell uncertainty– shape, thickness and permittivity	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity meas.	2.5	N	1	0.78	0.71	2.0	1.8
Liquid permittivity meas.	2.5	N	1	0.23	0.26	0.6	0.7
Liquid conductivity – temperature uncertainty	1.7	R	$\sqrt{3}$	0.78	0.71	0.8	0.7
Liquid permittivity – temperature uncertainty	0.3	R	$\sqrt{3}$	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				12.1	12.0
Expanded uncertainty (95 % confidence interval)		k=2				24.2	24.0

APPENDIX B - SAR PLOTS

Please refer to the attachment.

APPENDIX C - EUT TEST POSITION PHOTOS

Please refer to the attachment.

APPENDIX D - PROBE CALIBRATION CERTIFICATES

Please refer to the attachment.

APPENDIX E - DIPOLE CALIBRATION CERTIFICATES

Please refer to the attachment.

APPENDIX F - RETURN LOSS AND IMPEDANCE MEASUREMENT

Please refer to the attachment.

*******END OF REPORT*******