中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

SAR TEST REPORT

Applicant: **Fujian Newland Payment Technology Co.,Ltd.**

Address: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015,Fuzhou, Fujian, China

FCC ID: **2AM6U-N700-1**

Product Name: **POS Terminal**

Model Number: **N700**

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

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **CR22010044-20A1**

Date Of Issue: **2022-08-08**

Reviewed By: **Sun Zhong**

Sun Zhong

Title: Manager

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SAR TEST RESULTS SUMMARY

Operation Frequency Bands	Highest Reported 1g SAR(W/kg)		Highest Reported 10g SAR(W/kg)	
	Body-Supported (Gap 5mm)	**Limits (W/kg)**	**Handheld (Gap 0mm)**	**Limits (W/kg)**
GSM 850	0.57	**1.6**	0.51	**4.0**
PCS 1900	0.43		0.36	
WCDMA Band 2	0.73		0.47	
WCDMA Band 4	0.87		0.78	
WCDMA Band 5	0.71		0.78	
LTE Band 4	0.76		0.77	
LTE Band 7	**1.13**		**0.88**	
LTE Band 12	0.03		0.08	
LTE Band 13	0.93		0.46	
LTE Band 25&2	0.67		0.70	
LTE Band 26&5	0.65		0.77	
WLAN 2.4G	0.36		0.42	
WLAN 5.2G	0.08		0.05	
WLAN 5.3G	0.11		0.08	
WLAN 5.6G	0.86		0.43	
WLAN 5.8G	0.39		0.15	
Bluetooth	0.08		0.17	
Maximum Simultaneous Transmission SAR				
Items	**Body-Supported (Gap 0mm)**	**Limits (W/kg)**	**Handheld (Gap 0mm)**	**Limits (W/kg)**
Sum SAR(W/kg)	**1.56**	**1.6**	**1.02**	**4.0**
SPLSR	N/A	N/A	N/A	0.04
EUT Received Date:	2022/02/08			
Test Date:	2022/06/18-2022/06/20, 2022/08/05-2022/08/07			
Test Result:	Pass			

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang 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. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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CONTENTS

SAR TEST RESULTS SUMMARY 2
TEST FACILITY 3
DECLARATIONS 3
1. GENERAL INFORMATION 6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 6
1.2 TEST SPECIFICATION, METHODS AND PROCEDURES 7
1.3 SAR LIMTS 8
2. SAR MEASUREMENT SYSTEM 9
3. EQUIPMENT LIST AND CALIBRATION 16
3.1 EQUIPMENTS LIST & CALIBRATION INFORMATION 16
4. SAR MEASUREMENT SYSTEM VERIFICATION 17
4.1 LIQUID VERIFICATION 17
4.2 SYSTEM ACCURACY VERIFICATION 23
4.3 SAR SYSTEM VALIDATION DATA 25
5. EUT TEST STRATEGY AND METHODOLOGY 42
5.1 TEST POSITIONS FOR DEVICE OPERATING NEXT TO A PERSON'S EAR 42
5.2 CHEEK/TOUCH POSITION 43
5.3 EAR/TILT POSITION 43
5.4 TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS 44
5.5 TEST DISTANCE FOR SAR EVALUATION 45
5.6 SAR EVALUATION PROCEDURE 46
6. CONDUCTED OUTPUT POWER MEASUREMENT 47
6.1 TEST PROCEDURE 47
6.2 DESCRIPTION OF TEST CONFIGURATION 48
6.3 MAXIMUM TARGET OUTPUT POWER 53
6.4 TEST RESULTS: 55
7. Standalone SAR test exclusion considerations 76
7.1 ANTENNA DISTANCE TO EDGE 76
7.2 STANDALONE SAR TEST EXCLUSION CONSIDERATIONS 77
7.3 STANDALONE SAR ESTIMATION: 78
7.4 STANDALONE SAR TEST EXCLUSION CONSIDERATIONS: 79

7.5 SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT 80
8. SAR MEASUREMENT RESULTS 81
8.1 SAR TEST DATA 81
9. SAR Measurement Variability 108
10. SAR SIMULTANEOUS TRANSMISSION DESCRIPTION 109
11. SAR Plots 131
APPENDIX A MEASUREMENT UNCERTAINTY 132
APPENDIX B EUT TEST POSITION PHOTOS 134
APPENDIX C CALIBRATION CERTIFICATES 135

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	None
Operation modes:	GPRS/EDGE Data, WCDMA(Rel99,HSUPA,HSDPA,DC-HSDPA), FDD-LTE, WLAN, BLE and NFC
Frequency Band:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 4: 1710-1755 MHz(TX), 2110-2155 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) 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 25: 1850-1915 MHz(TX) ; 1930-1995 MHz(RX) LTE Band 26: 814-849 MHz(TX) ; 859-894 MHz(RX) Wi-Fi 2.4G: 2412-2462 MHz/2422-2452 MHz Wi-Fi 5.2G: 5180-5240 MHz/5190-5230 MHz Wi-Fi 5.3G: 5260-5320 MHz/5270-5310 MHz Wi-Fi 5.6G: 5500-5700 MHz/5510-5670 MHz Wi-Fi 5.8G: 5745-5825 MHz/5755-5795 MHz BLE: 2402 -2480 MHz NFC: 13.56 MHz
Conducted RF Power:	GSM 850: 33.45dBm; PCS 1900: 31.38 dBm WCDMA Band 2: 22.82 dBm; WCDMA Band 4: 22.4 dBm WCDMA Band 5: 22.41 dBm LTE Band 2: 22.81dBm; LTE Band 4: 22.92 dBm LTE Band 5: 23.74dBm; LTE Band 7: 22.86 dBm LTE Band 12: 23.85 dBm; LTE Band 13: 23.89dBm LTE Band 25: 22.88 dBm; LTE Band 26: 23.89 dBm Wi-Fi 2.4G: 14.38 dBm; Wi-Fi 5.2G: 11.58 dBm; Wi-Fi 5.3G: 11.83 dBm;Wi-Fi 5.6G: 13.81 dBm; Wi-Fi 5.8G: 15.12 dBm BLE: 1.91 dBm
Rated Input Voltage:	DC 3.7V from Rechargeable Battery
Serial Number:	CR22010044-SA-S1
Normal Operation:	Body Supported and Handheld

1.2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR §2.1093, IEEE 1528-2013, the following FCC Published RF exposure KDB procedures:

447498 D04 Interim General RF Exposure Guidance v01
KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v02r05
KDB 248227 D01 802 11 Wi-Fi SAR v02r02

TCB Workshop April 2019: RF Exposure Procedures

1.3 SAR Limts

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)	**1.60**	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

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 may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

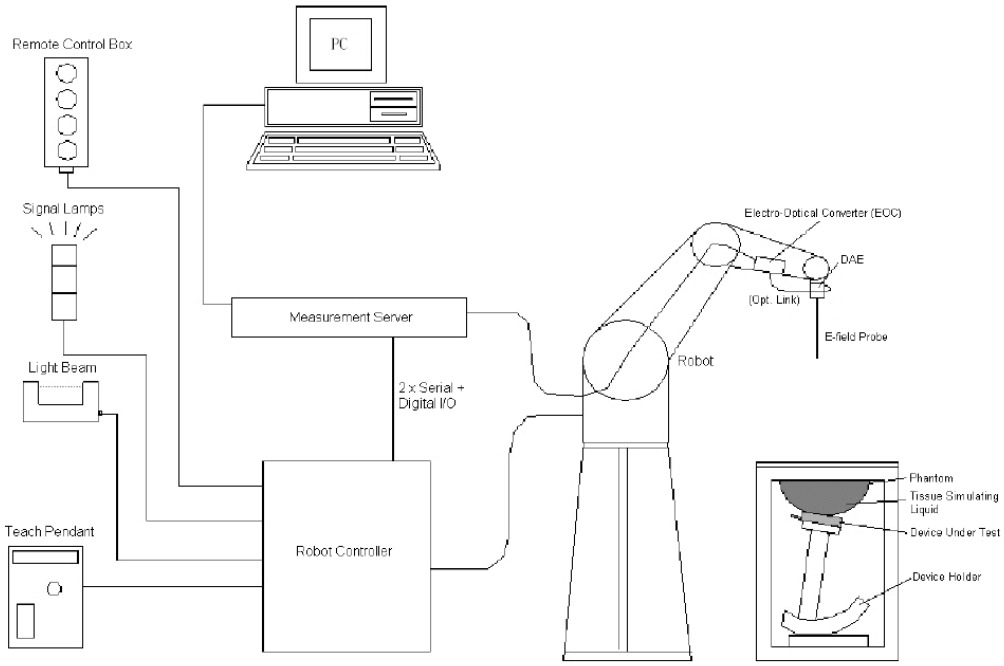
General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg for 1g Body SAR applied to the EUT.

2. SAR MEASUREMENT 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 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ±0.2 dB (30 MHz to 6 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ±0.2 dB (noise: typically < 1 μW/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
Application	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 SAR and higher, EASY4/MRI

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7329 Calibrated: 2021/12/31

Calibration Frequency Point(MHz)	Frequency Range(MHz)		Conversion Factor		
	From	To	X	Y	Z
750 Head	650	850	10.06	10.06	10.06
900 Head	850	1000	9.68	9.68	9.68
1450 Head	1350	1550	8.64	8.64	8.64
1750 Head	1650	1850	8.23	8.23	8.23
1900 Head	1850	2000	8.00	8.00	8.00
2100 Head	2000	2200	7.90	7.90	7.90
2300 Head	2200	2400	7.73	7.73	7.73
2450 Head	2400	2550	7.42	7.42	7.42
2600 Head	2550	2700	7.15	7.15	7.15
5200 Head	5090	5250	5.49	5.49	5.49
5300 Head	5250	5410	5.20	5.20	5.20
5600 Head	5490	5700	4.77	4.77	4.77
5800 Head	5700	5910	4.75	4.75	4.75

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 CS8c 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.

SAR Scan Pricedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: 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 15mm 2 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.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm ± 1 mm	½·δ·ln(2) mm ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: 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/m^3 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.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ mm	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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 IEC 62209-1:2016

Recommended Tissue Dielectric Parameters for Head liquid

Table A.3 – Dielectric properties of the head tissue-equivalent liquid

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
1 450	40,5	1,20
1 500	*40,4*	*1,23*
1 640	*40,2*	*1,31*
1 750	*40,1*	*1,37*
1 800	40,0	1,40
1 900	40,0	1,40
2 000	40,0	1,40
2 100	*39,8*	*1,49*
2 300	*39,5*	*1,67*
2 450	39,2	1,80
2 600	*39,0*	*1,96*
3 000	38,5	2,40
3 500	*37,9*	*2,91*
4 000	*37,4*	*3,43*
4 500	*36,8*	*3,94*
5 000	*36,2*	*4,45*
5 200	*36,0*	*4,66*
5 400	*35,8*	*4,86*
5 600	*35,5*	*5,07*
5 800	*35,3*	*5,27*
6 000	*35,1*	*5,48*

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 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 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

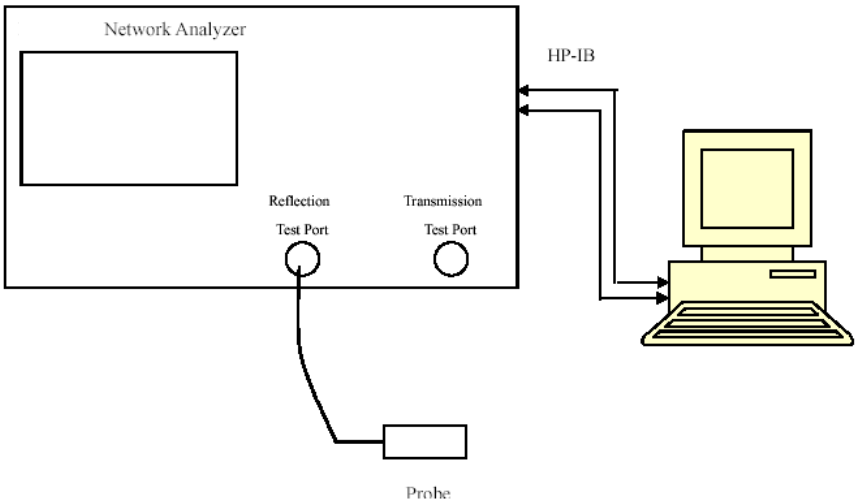
3. EQUIPMENT LIST AND CALIBRATION

3.1 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	1567	NCR	NCR
Data Acquisition Electronics	DAE4	1354	2021/9/1	2022/8/31
E-Field Probe	EX3DV4	7329	2021/12/31	2022/12/30
Mounting Device	MD4HHTV5	BJPCTC0152	NCR	NCR
Twin SAM	Twin SAM V5.0	1412	NCR	NCR
Dipole, 750 MHz	D750V3	1167	2019/11/20	2022/11/19
Dipole, 1750 MHz	D1750V2	1141	2021/6/29	2024/6/28
Dipole, 1900 MHz	D1900V2	543	2019/10/15	2022/10/14
Dipole, 2450 MHz	D2450V2	971	2021/6/28	2024/6/27
Dipole, 2600 MHz	D2600V2	1132	2019/11/19	2022/11/18
Dipole,5GHz	D5GHzV2	1246	2019/11/19	2022/11/18
Simulated Tissue 750 MHz	TS-750	2010075001	Each Time	/
Simulated Tissue 1750 MHz	TS-1750	2109175001	Each Time	/
Simulated Tissue 1900 MHz	TS-1900	2003190001	Each Time	/
Simulated Tissue 2450 MHz	TS-2450	2003245001	Each Time	/
Simulated Tissue 2600 MHz	TS-2600	2010260001	Each Time	/
Simulated Tissue 5250 MHz	TS-5250	2001525001	Each Time	/
Simulated Tissue 5800 MHz	TS-5800	2001580001	Each Time	/
Network Analyzer	8753B	2828A00170	2021/10/26	2022/10/25
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
MXG Vector Signal Generator	N5182B	MY51350144	2021/7/22	2022/7/21
			2022/7/15	2023/7/14
Power Meter	EPM-441A/8484A	GB37481494	2021/7/22	2022/7/21
			2022/7/15	2023/7/14
Power Amplifier	ZVA-183-S+	5969001149	NCR	NCR
Directional Coupler	441493	520Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
Universal Radio Communication Tester	CMU200	110 825	2021/7/22	2022/7/21
			2022/7/15	2023/7/14
Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
			2022/7/15	2023/7/14

4. SAR MEASUREMENT SYSTEM VERIFICATION

4.1 Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
704	Simulated Tissue 750 MHz	42.262	0.868	42.15	0.89	0.27	-2.47	±10
707.5	Simulated Tissue 750 MHz	42.195	0.873	42.13	0.89	0.15	-1.91	±10
711	Simulated Tissue 750 MHz	42.138	0.878	42.11	0.89	0.07	-1.35	±10
750	Simulated Tissue 750 MHz	41.975	0.884	41.9	0.89	0.18	-0.67	±10
782	Simulated Tissue 750 MHz	41.864	0.891	41.75	0.89	0.27	0.11	±10
821.5	Simulated Tissue 750 MHz	41.637	0.901	41.56	0.9	0.19	0.11	±10
824.2	Simulated Tissue 750 MHz	41.604	0.906	41.55	0.9	0.13	0.67	±10
826.4	Simulated Tissue 750 MHz	41.574	0.914	41.54	0.9	0.08	1.56	±10
831.5	Simulated Tissue 750 MHz	41.547	0.919	41.52	0.9	0.07	2.11	±10
836.6	Simulated Tissue 750 MHz	41.514	0.926	41.5	0.9	0.03	2.89	±10
841.5	Simulated Tissue 750 MHz	41.481	0.932	41.5	0.91	-0.05	2.42	±10
846.6	Simulated Tissue 750 MHz	41.456	0.937	41.5	0.91	-0.11	2.97	±10
848.8	Simulated Tissue 750 MHz	41.423	0.944	41.5	0.91	-0.19	3.74	±10

**Liquid Verification above was performed on 2022/06/18.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
1712.4	Simulated Tissue 1750 MHz	40.241	1.317	40.13	1.35	0.28	-2.44	±10
1720	Simulated Tissue 1750 MHz	40.225	1.329	40.13	1.35	0.24	-1.56	±10
1732.5	Simulated Tissue 1750 MHz	40.212	1.337	40.12	1.36	0.23	-1.69	±10
1732.6	Simulated Tissue 1750 MHz	40.207	1.341	40.12	1.36	0.22	-1.4	±10
1745	Simulated Tissue 1750 MHz	40.194	1.355	40.1	1.37	0.23	-1.09	±10
1750	Simulated Tissue 1750 MHz	40.171	1.367	40.1	1.37	0.18	-0.22	±10
1752.6	Simulated Tissue 1750 MHz	40.165	1.374	40.09	1.37	0.19	0.29	±10

**Liquid Verification above was performed on 2022/06/19.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
1850.2	Simulated Tissue 1900 MHz	40.071	1.381	40	1.4	0.18	-1.36	±10
1852.4	Simulated Tissue 1900 MHz	40.036	1.385	40	1.4	0.09	-1.07	±10
1860	Simulated Tissue 1900 MHz	40.008	1.397	40	1.4	0.02	-0.21	±10
1880	Simulated Tissue 1900 MHz	39.978	1.403	40	1.4	-0.05	0.21	±10
1882.5	Simulated Tissue 1900 MHz	39.961	1.408	40	1.4	-0.1	0.57	±10
1900	Simulated Tissue 1900 MHz	39.952	1.415	40	1.4	-0.12	1.07	±10
1905	Simulated Tissue 1900 MHz	39.935	1.421	40	1.4	-0.16	1.5	±10
1907.6	Simulated Tissue 1900 MHz	39.907	1.427	40	1.4	-0.23	1.93	±10
1909.8	Simulated Tissue 1900 MHz	39.879	1.435	40	1.4	-0.3	2.5	±10

**Liquid Verification above was performed on 2022/06/19.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
2412	Simulated Tissue 2450 MHz	39.363	1.733	39.28	1.77	0.21	-2.09	±10
2437	Simulated Tissue 2450 MHz	39.293	1.784	39.23	1.79	0.16	-0.34	±10
2440	Simulated Tissue 2450 MHz	39.271	1.792	39.22	1.79	0.13	0.11	±10
2450	Simulated Tissue 2450 MHz	39.249	1.803	39.2	1.8	0.12	0.17	±10
2462	Simulated Tissue 2450 MHz	39.198	1.811	39.18	1.81	0.05	0.06	±10
2510	Simulated Tissue 2450 MHz	39.163	1.867	39.12	1.86	0.11	0.38	±10
2535	Simulated Tissue 2450 MHz	39.102	1.905	39.09	1.89	0.03	0.79	±10

**Liquid Verification above was performed on 2022/06/20.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
2560	Simulated Tissue 2600 MHz	39.088	1.922	39.05	1.92	0.1	0.1	±10
2600	Simulated Tissue 2600 MHz	39.049	1.964	39	1.96	0.13	0.2	±10

**Liquid Verification above was performed on 2022/06/20.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
5180	Simulated Tissue 5250 MHz	36.217	4.591	36.02	4.64	0.55	-1.06	±10
5200	Simulated Tissue 5250 MHz	36.162	4.618	36	4.66	0.45	-0.9	±10
5240	Simulated Tissue 5250 MHz	36.081	4.687	35.96	4.7	0.34	-0.28	±10
5250	Simulated Tissue 5250 MHz	35.994	4.706	35.95	4.71	0.12	-0.08	±10

**Liquid Verification above was performed on 2022/06/20.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
5260	Simulated Tissue 5300 MHz	35.929	4.733	35.94	4.72	-0.03	0.28	±10
5280	Simulated Tissue 5300 MHz	35.912	4.753	35.92	4.74	-0.02	0.27	±10
5300	Simulated Tissue 5300 MHz	35.885	4.775	35.9	4.76	-0.04	0.32	±10
5320	Simulated Tissue 5300 MHz	35.827	4.788	35.88	4.78	-0.15	0.17	±10

**Liquid Verification above was performed on 2022/06/20.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
5500	Simulated Tissue 5600 MHz	35.682	5.008	35.65	4.97	0.09	0.76	±10
5580	Simulated Tissue 5600 MHz	35.673	5.026	35.53	5.05	0.4	-0.48	±10
5600	Simulated Tissue 5600 MHz	35.406	5.055	35.5	5.07	-0.26	-0.3	±10
5700	Simulated Tissue 5600 MHz	35.399	5.136	35.4	5.17	0	-0.66	±10

**Liquid Verification above was performed on 2022/06/20.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
5745	Simulated Tissue 5800 MHz	35.354	5.249	35.36	5.22	-0.02	0.56	±10
5785	Simulated Tissue 5800 MHz	35.318	5.262	35.32	5.26	-0.01	0.04	±10
5800	Simulated Tissue 5800 MHz	35.304	5.301	35.3	5.27	0.01	0.59	±10
5825	Simulated Tissue 5800 MHz	35.195	5.312	35.28	5.3	-0.24	0.23	±10

**Liquid Verification above was performed on 2022/06/20.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
704	Simulated Tissue 750 MHz	42.262	0.853	42.15	0.89	0.27	-4.16	±10
707.5	Simulated Tissue 750 MHz	42.214	0.859	42.13	0.89	0.2	-3.48	±10
711	Simulated Tissue 750 MHz	42.081	0.865	42.11	0.89	-0.07	-2.81	±10
750	Simulated Tissue 750 MHz	41.947	0.869	41.9	0.89	0.11	-2.36	±10
782	Simulated Tissue 750 MHz	41.839	0.881	41.75	0.89	0.21	-1.01	±10
821.5	Simulated Tissue 750 MHz	41.669	0.896	41.56	0.9	0.26	-0.44	±10
824.2	Simulated Tissue 750 MHz	41.608	0.902	41.55	0.9	0.14	0.22	±10
826.4	Simulated Tissue 750 MHz	41.579	0.908	41.54	0.9	0.09	0.89	±10
831.5	Simulated Tissue 750 MHz	41.556	0.911	41.52	0.9	0.09	1.22	±10
836.6	Simulated Tissue 750 MHz	41.538	0.918	41.5	0.9	0.09	2	±10
841.5	Simulated Tissue 750 MHz	41.509	0.926	41.5	0.91	0.02	1.76	±10
846.6	Simulated Tissue 750 MHz	41.466	0.932	41.5	0.91	-0.08	2.42	±10
848.8	Simulated Tissue 750 MHz	41.409	0.937	41.5	0.91	-0.22	2.97	±10

**Liquid Verification above was performed on 2022/08/05.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
1712.4	Simulated Tissue 1750 MHz	40.291	1.326	40.13	1.35	0.4	-1.78	±10
1720	Simulated Tissue 1750 MHz	40.254	1.339	40.13	1.35	0.31	-0.81	±10
1732.5	Simulated Tissue 1750 MHz	40.237	1.345	40.12	1.36	0.29	-1.1	±10
1732.6	Simulated Tissue 1750 MHz	40.205	1.348	40.12	1.36	0.21	-0.88	±10
1745	Simulated Tissue 1750 MHz	40.183	1.353	40.1	1.37	0.21	-1.24	±10
1750	Simulated Tissue 1750 MHz	40.165	1.358	40.1	1.37	0.16	-0.88	±10
1752.6	Simulated Tissue 1750 MHz	40.149	1.364	40.09	1.37	0.15	-0.44	±10

**Liquid Verification above was performed on 2022/08/07.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
1850.2	Simulated Tissue 1900 MHz	40.142	1.381	40	1.4	0.36	-1.36	±10
1852.4	Simulated Tissue 1900 MHz	40.134	1.388	40	1.4	0.34	-0.86	±10
1860	Simulated Tissue 1900 MHz	40.126	1.396	40	1.4	0.31	-0.29	±10
1880	Simulated Tissue 1900 MHz	40.112	1.405	40	1.4	0.28	0.36	±10
1882.5	Simulated Tissue 1900 MHz	40.081	1.411	40	1.4	0.2	0.79	±10
1900	Simulated Tissue 1900 MHz	40.043	1.419	40	1.4	0.11	1.36	±10
1905	Simulated Tissue 1900 MHz	39.984	1.426	40	1.4	-0.04	1.86	±10
1907.6	Simulated Tissue 1900 MHz	39.959	1.431	40	1.4	-0.1	2.21	±10
1909.8	Simulated Tissue 1900 MHz	39.931	1.437	40	1.4	-0.17	2.64	±10

**Liquid Verification above was performed on 2022/08/06.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
2412	Simulated Tissue 2450 MHz	39.417	1.761	39.28	1.77	0.35	-0.51	±10
2437	Simulated Tissue 2450 MHz	39.371	1.788	39.23	1.79	0.36	-0.11	±10
2440	Simulated Tissue 2450 MHz	39.254	1.803	39.22	1.79	0.09	0.73	±10
2450	Simulated Tissue 2450 MHz	39.198	1.812	39.2	1.8	-0.01	0.67	±10
2462	Simulated Tissue 2450 MHz	39.067	1.836	39.18	1.81	-0.29	1.44	±10
2510	Simulated Tissue 2450 MHz	39.001	1.868	39.12	1.86	-0.3	0.43	±10
2535	Simulated Tissue 2450 MHz	38.976	1.905	39.09	1.89	-0.29	0.79	±10

**Liquid Verification above was performed on 2022/08/06.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
5180	Simulated Tissue 5250 MHz	36.175	4.661	36.02	4.64	0.43	0.45	±10
5200	Simulated Tissue 5250 MHz	36.125	4.687	36	4.66	0.35	0.58	±10
5240	Simulated Tissue 5250 MHz	36.048	4.705	35.96	4.7	0.24	0.11	±10
5250	Simulated Tissue 5250 MHz	35.982	4.729	35.95	4.71	0.09	0.4	±10

**Liquid Verification above was performed on 2022/08/07.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
5260	Simulated Tissue 5300 MHz	35.953	4.736	35.94	4.72	0.04	0.34	±10
5280	Simulated Tissue 5300 MHz	35.904	4.767	35.92	4.74	-0.04	0.57	±10
5300	Simulated Tissue 5300 MHz	35.825	4.774	35.9	4.76	-0.21	0.29	±10
5320	Simulated Tissue 5300 MHz	35.733	4.785	35.88	4.78	-0.41	0.1	±10

**Liquid Verification above was performed on 2022/08/07.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
5500	Simulated Tissue 5600 MHz	35.688	4.982	35.65	4.97	0.11	0.24	±10
5580	Simulated Tissue 5600 MHz	35.624	5.011	35.53	5.05	0.26	-0.77	±10
5600	Simulated Tissue 5600 MHz	35.511	5.098	35.5	5.07	0.03	0.55	±10
5700	Simulated Tissue 5600 MHz	35.413	5.178	35.4	5.17	0.04	0.15	±10

**Liquid Verification above was performed on 2022/08/07.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	Δσ (S/m)	
5745	Simulated Tissue 5800 MHz	35.258	5.206	35.36	5.22	-0.29	-0.27	±10
5785	Simulated Tissue 5800 MHz	35.203	5.257	35.32	5.26	-0.33	-0.06	±10
5800	Simulated Tissue 5800 MHz	35.187	5.292	35.3	5.27	-0.32	0.42	±10
5825	Simulated Tissue 5800 MHz	35.134	5.316	35.28	5.3	-0.41	0.3	±10

**Liquid Verification above was performed on 2022/08/07.*

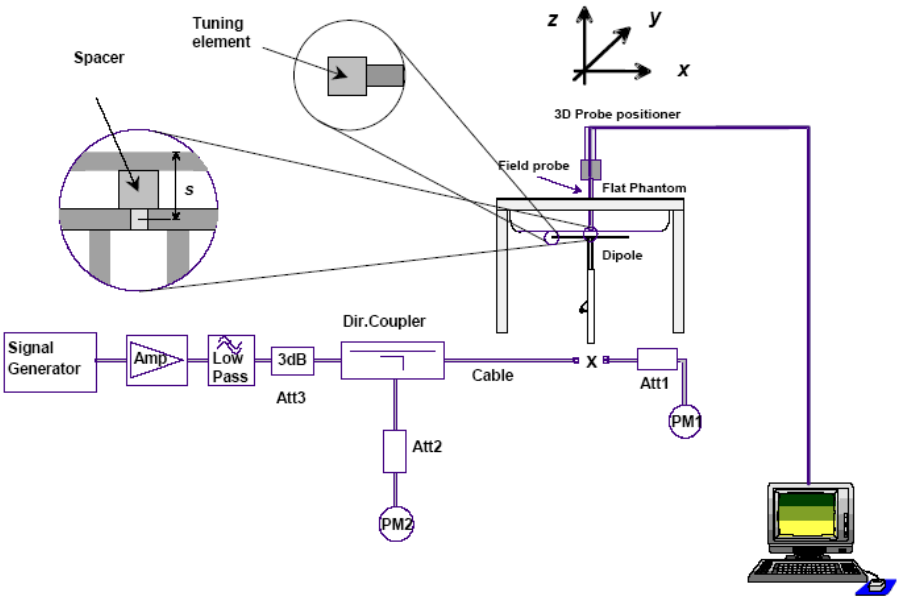
4.2 System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of ±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:

a) s = 15 mm ± 0,2 mm for 300 MHz ≤ f ≤ 1 000 MHz;
b) s = 10 mm ± 0,2 mm for 1 000 MHz < f ≤ 3 000 MHz;
c) s = 10 mm ± 0,2 mm for 3 000 MHz < f ≤ 6 000 MHz.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2022/6/18	750 MHz	Simulated Tissue 750 MHz	100	1g	0.846	8.46	8.38	0.95	±10
2022/6/19	1750 MHz	Simulated Tissue 1750 MHz	100	1g	3.74	37.4	36.1	3.6	±10
2022/6/19	1900 MHz	Simulated Tissue 1900 MHz	100	1g	4.12	41.2	40.2	2.49	±10
2022/6/20	2450 MHz	Simulated Tissue 2450 MHz	100	1g	5.29	52.9	53.5	-1.12	±10
2022/6/20	2600 MHz	Simulated Tissue 2600 MHz	100	1g	5.43	54.3	55.5	-2.16	±10
2022/6/20	5250 MHz	Simulated Tissue 5250 MHz	100	1g	7.62	76.2	75.0	1.6	±10
2022/6/20	5300 MHz	Simulated Tissue 5300 MHz	100	1g	7.87	78.7	77.2	1.94	±10
2022/6/20	5600 MHz	Simulated Tissue 5600 MHz	100	1g	8.07	80.7	79.8	1.13	±10
2022/6/20	5800 MHz	Simulated Tissue 5800 MHz	100	1g	8.04	80.4	77.9	3.21	±10

*The SAR values above are normalized to 1 Watt forward power.

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2022/8/05	750 MHz	Simulated Tissue 750 MHz	100	10g	0.566	5.66	5.61	0.89	±10
2022/8/07	1750 MHz	Simulated Tissue 1750 MHz	100	10g	1.95	19.5	18.7	4.28	±10
2022/8/06	1900 MHz	Simulated Tissue 1900 MHz	100	10g	2.16	21.6	20.6	4.85	±10
2022/8/06	2450 MHz	Simulated Tissue 2450 MHz	100	10g	2.31	23.1	24.2	-4.55	±10
2022/8/07	5250 MHz	Simulated Tissue 5250 MHz	100	10g	2.17	21.7	21.3	1.88	±10
2022/8/07	5300 MHz	Simulated Tissue 5300 MHz	100	10g	2.24	22.4	21.9	2.28	±10
2022/8/07	5600 MHz	Simulated Tissue 5600 MHz	100	10g	2.35	23.5	22.7	3.52	±10
2022/8/07	5800 MHz	Simulated Tissue 5800 MHz	100	10g	2.13	21.3	22	-3.18	±10

*The SAR values above are normalized to 1 Watt forward power.

4.3 SAR SYSTEM VALIDATION DATA

System Performance 750 MHz was performed on 2022/6/18

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

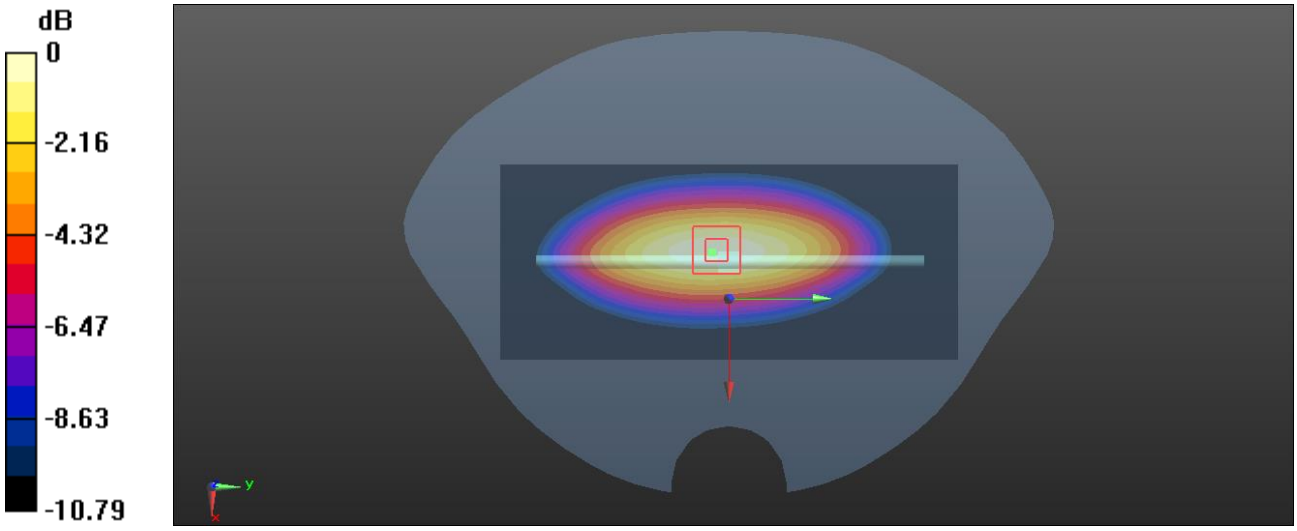
Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.884 S/m; ε_r = 41.975; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(10.06, 10.06, 10.06) @ 750 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.16 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.64 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.556 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

System Performance 1750MHz was performed on 2022/6/19

DUT: D1750V2; Type: 1750 MHz; Serial: 1141

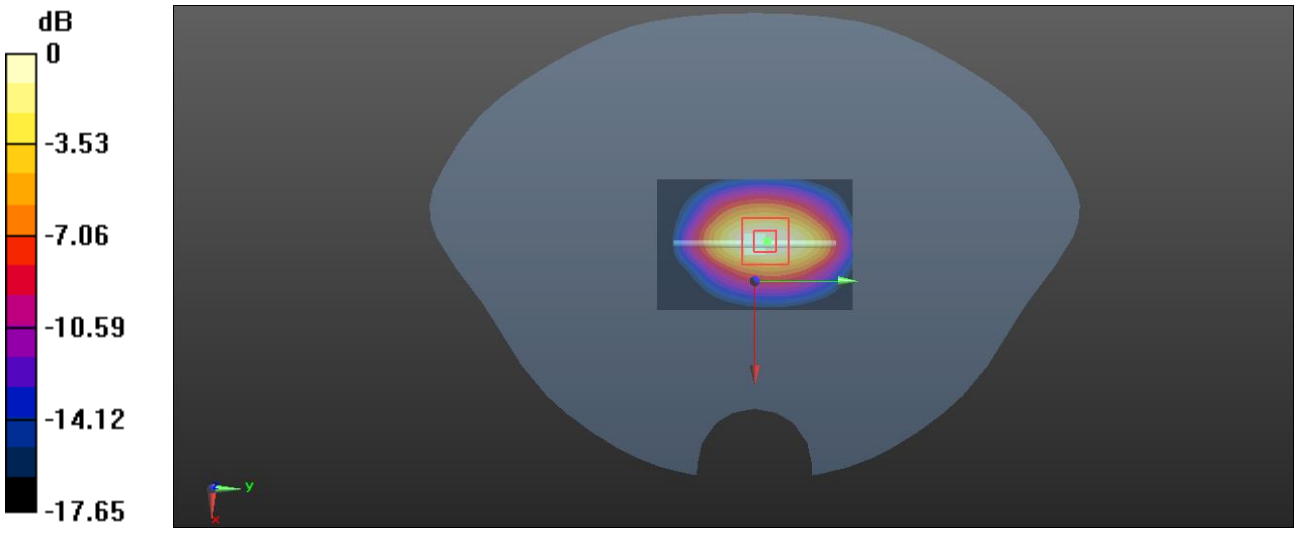
Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.367 S/m; ε_r = 40.171; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(8.23, 8.23, 8.23) @ 1750 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 6.70 W/kg

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 66.70 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 7.46 W/kg
SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.99 W/kg
Maximum value of SAR (measured) = 6.22 W/kg



0 dB = 6.22 W/kg = 7.94 dBW/kg

System Performance 1900MHz was performed on 2022/6/19

DUT: D1900V2; Type: 1900 MHz; Serial: 543

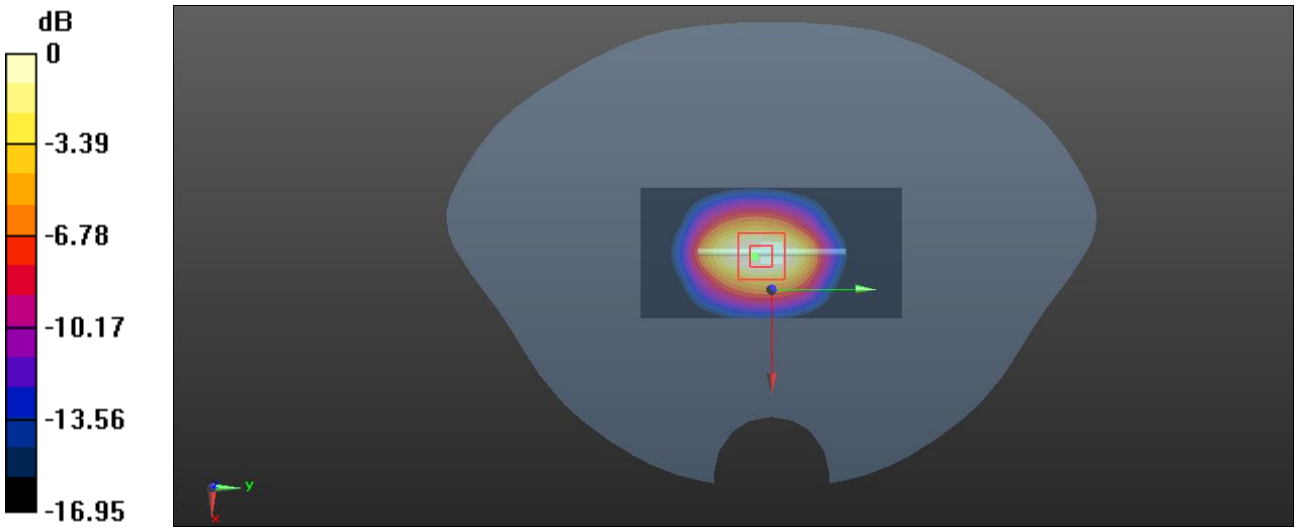
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.415 S/m; ε_r = 39.952; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(8, 8, 8) @ 1900 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 4.86 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.33 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 6.93 W/kg
SAR(1 g) = 4.12 W/kg; SAR(10 g) = 2.16 W/kg
Maximum value of SAR (measured) = 4.24 W/kg



0 dB = 4.24 W/kg = 6.27 dBW/kg

System Performance 2450MHz was performed on 2022/6/20

DUT: D2450V2; Type: 2450 MHz; Serial: 971

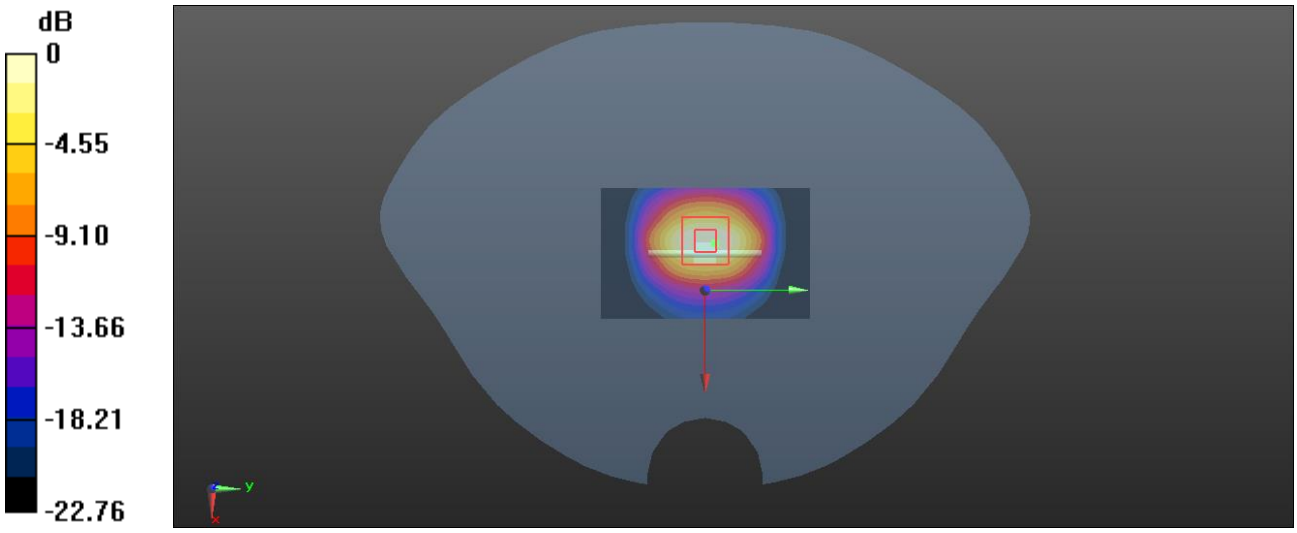
Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.803 S/m; ε_r = 39.249; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.42, 7.42, 7.42) @ 2450 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 8.55 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 49.82 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 10.4 W/kg
SAR(1 g) = 5.29 W/kg; SAR(10 g) = 2.36 W/kg
Maximum value of SAR (measured) = 8.05 W/kg



0 dB = 8.05 W/kg = 9.06 dBW/kg

System Performance 2600MHz was performed on 2022/6/20

DUT: D2600V2; Type: 2600 MHz; Serial: 1132

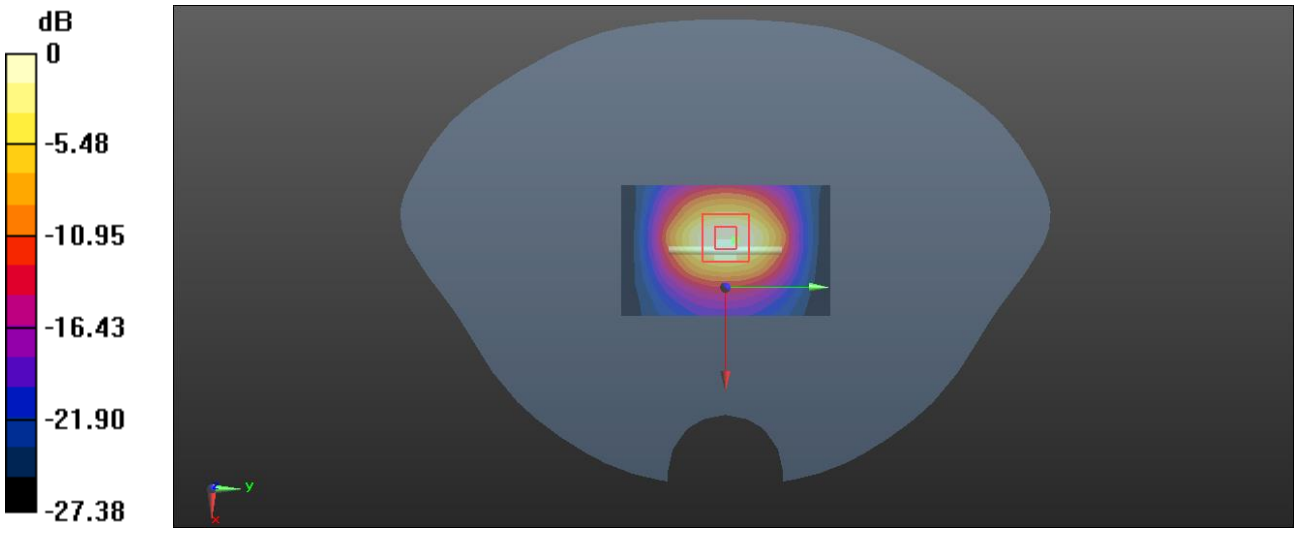
Communication System: CW; Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.964 S/m; ε_r = 39.049; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.15, 7.15, 7.15) @ 2600 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 8.51 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 49.71 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 10.4 W/kg
SAR(1 g) = 5.43 W/kg; SAR(10 g) = 2.29 W/kg
Maximum value of SAR (measured) = 8.12 W/kg



0 dB = 8.12 W/kg = 9.10 dBW/kg

System Performance 5250MHz was performed on 2022/6/20

DUT: Dipole D5GHzV2; Type: 5250 MHz; Serial: SN:1246

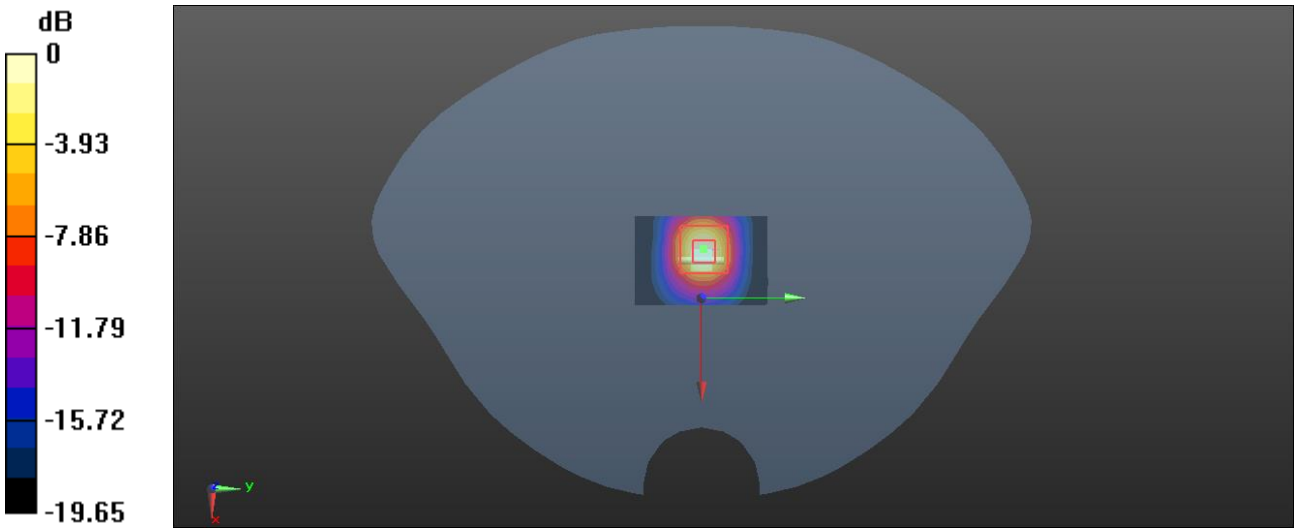
Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.706 S/m; ε_r = 35.994; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.49, 5.49, 5.49) @ 5250 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.9 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 39.10 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 28.2 W/kg
SAR(1 g) = 7.62 W/kg; SAR(10 g) = 2.18 W/kg
Maximum value of SAR (measured) = 18.1 W/kg



0 dB = 18.1 W/kg = 12.58 dBW/kg

System Performance 5300MHz was performed on 2022/6/20

DUT: Dipole D5GHzV2; Type: 5300 MHz; Serial: SN:1246

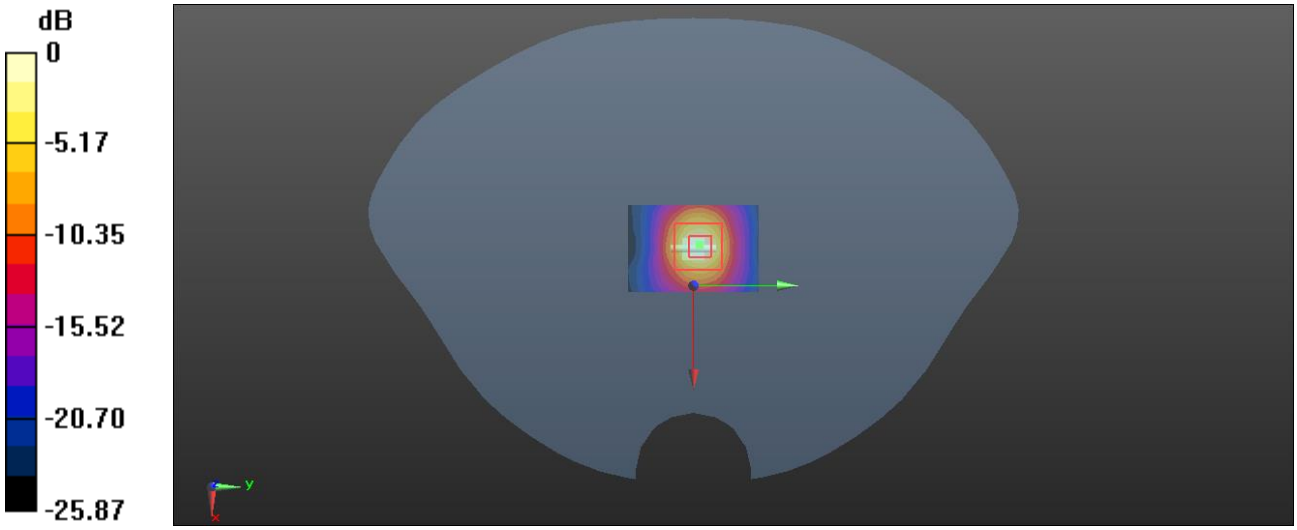
Communication System: CW ; Frequency: 5300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5300 MHz; σ = 4.775 S/m; ε_r = 35.885; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.2, 5.2, 5.2) @ 5300 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 23.1 W/kg
Maximum value of SAR (interpolated) = 21.7 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 39.29 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 35.5 W/kg
SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.22 W/kg
Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

System Performance 5600 MHz was performed on 2022/6/20

DUT: Dipole D5GHzV2; Type: 5600 MHz; Serial: SN:1246

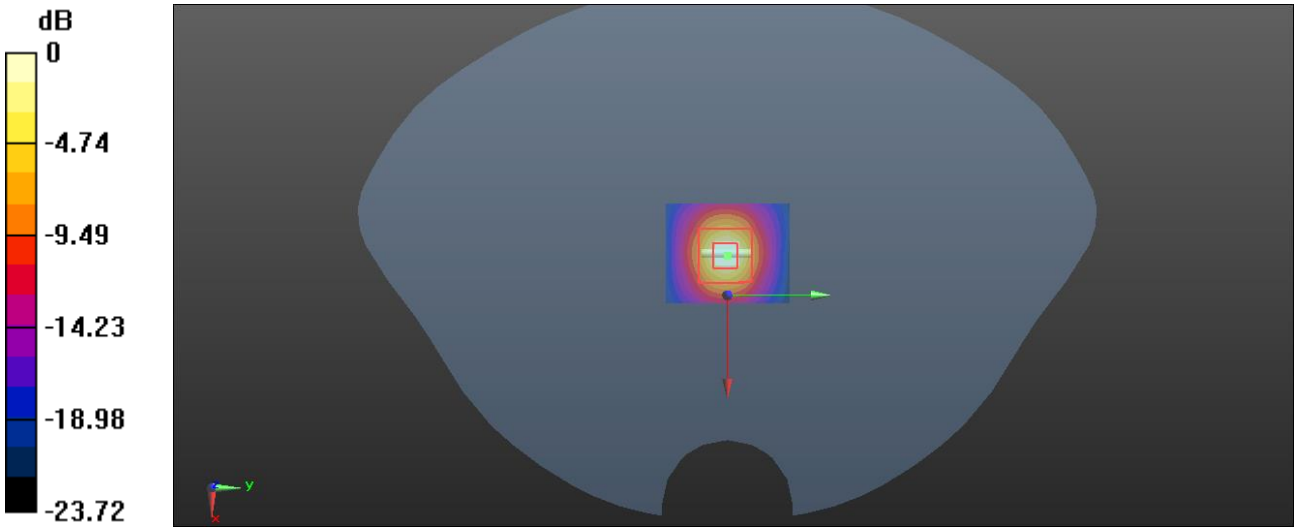
Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.055 S/m; ε_r = 35.406; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.77, 4.77, 4.77) @ 5600 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 23.4 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 42.80 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 38.2 W/kg
SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.32 W/kg
Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg = 13.34 dBW/kg

System Performance 5800 MHz was performed on 2022/6/20

DUT: Dipole D5GHzV2; Type: 5800 MHz; Serial: SN:1246

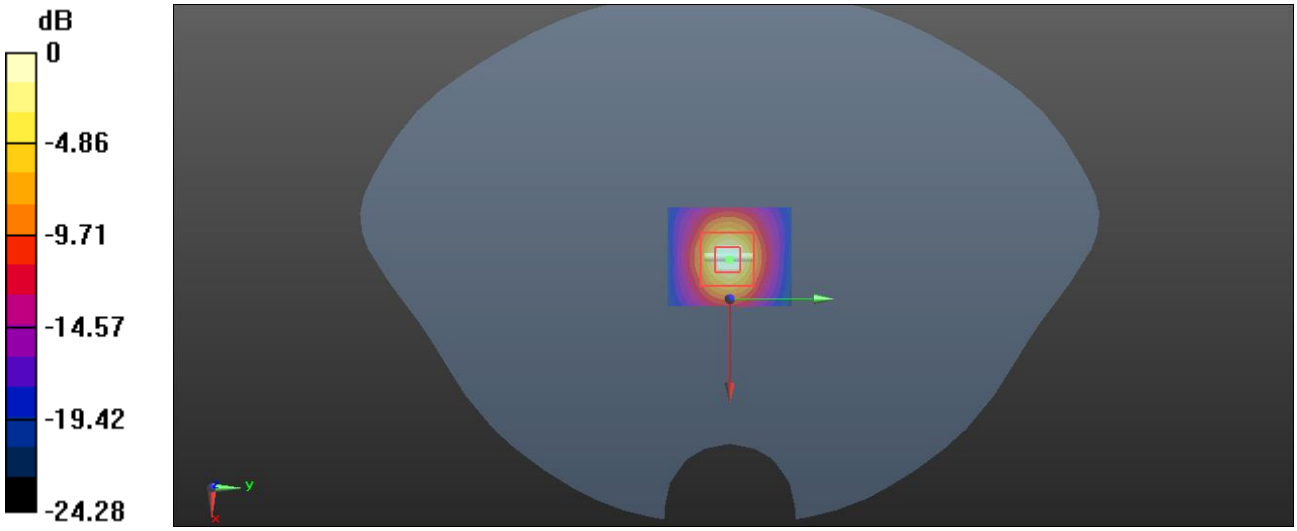
Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.301 S/m; ε_r = 35.304; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.75, 4.75, 4.75) @ 5800 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 24.7 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 41.47 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 42.8 W/kg
SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.31 W/kg
Maximum value of SAR (measured) = 23.2 W/kg



0 dB = 23.2 W/kg = 13.65 dBW/kg

System Performance 750 MHz was performed on 2022/8/5

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

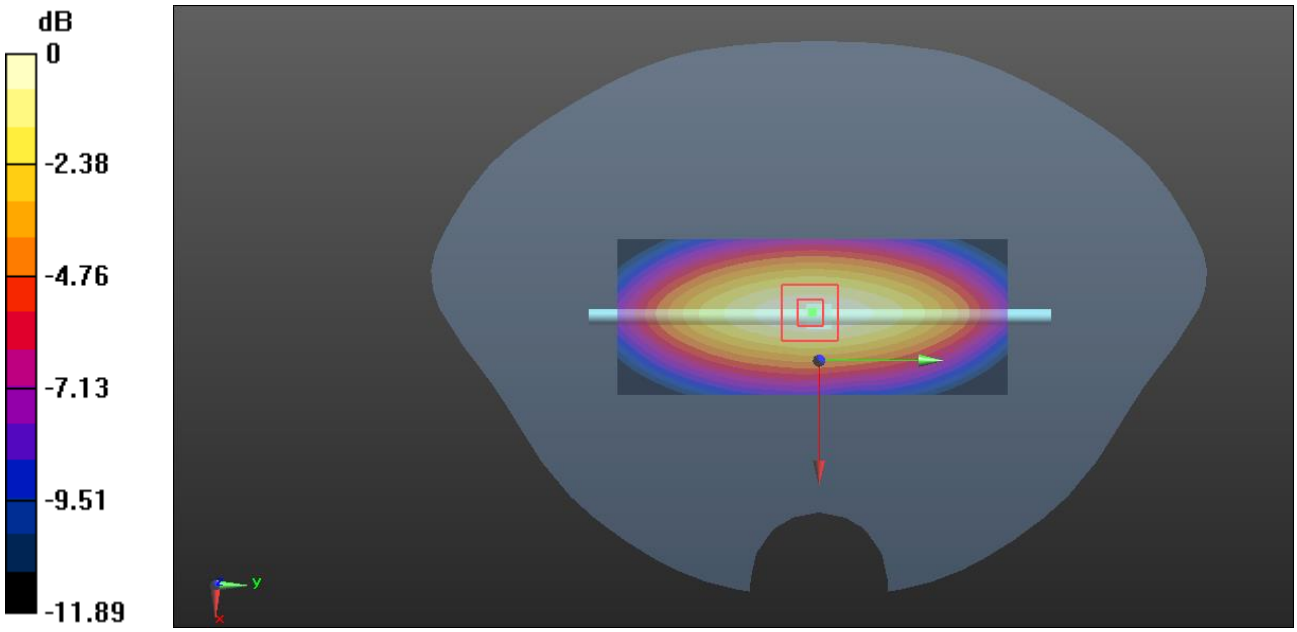
Communication System: CW; Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.869 S/m; ε_r = 41.947; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(10.06, 10.06, 10.06) @ 750 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.806 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.37 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.861 W/kg; SAR(10 g) = 0.566 W/kg
Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

System Performance 1750MHz was performed on 2022/8/7

DUT: D1750V2; Type: 1750 MHz; Serial: 1141

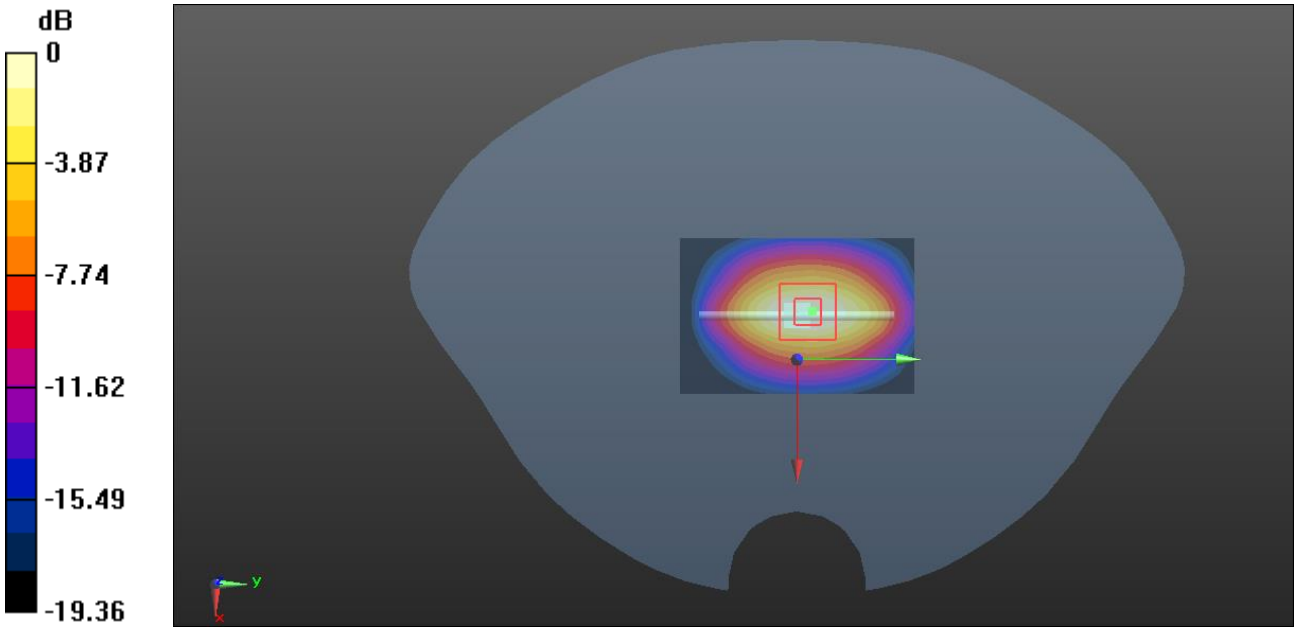
Communication System: CW; Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.358 S/m; ε_r = 40.165; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(8.23, 8.23, 8.23) @ 1750 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 5.96 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.23 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 6.59 W/kg
SAR(1 g) = 3.67 W/kg; SAR(10 g) = 1.95 W/kg
Maximum value of SAR (measured) = 5.53 W/kg



0 dB = 5.53 W/kg = 7.43 dBW/kg

System Performance 1900MHz was performed on 2022/8/6

DUT: D1900V2; Type: 1900 MHz; Serial: 543

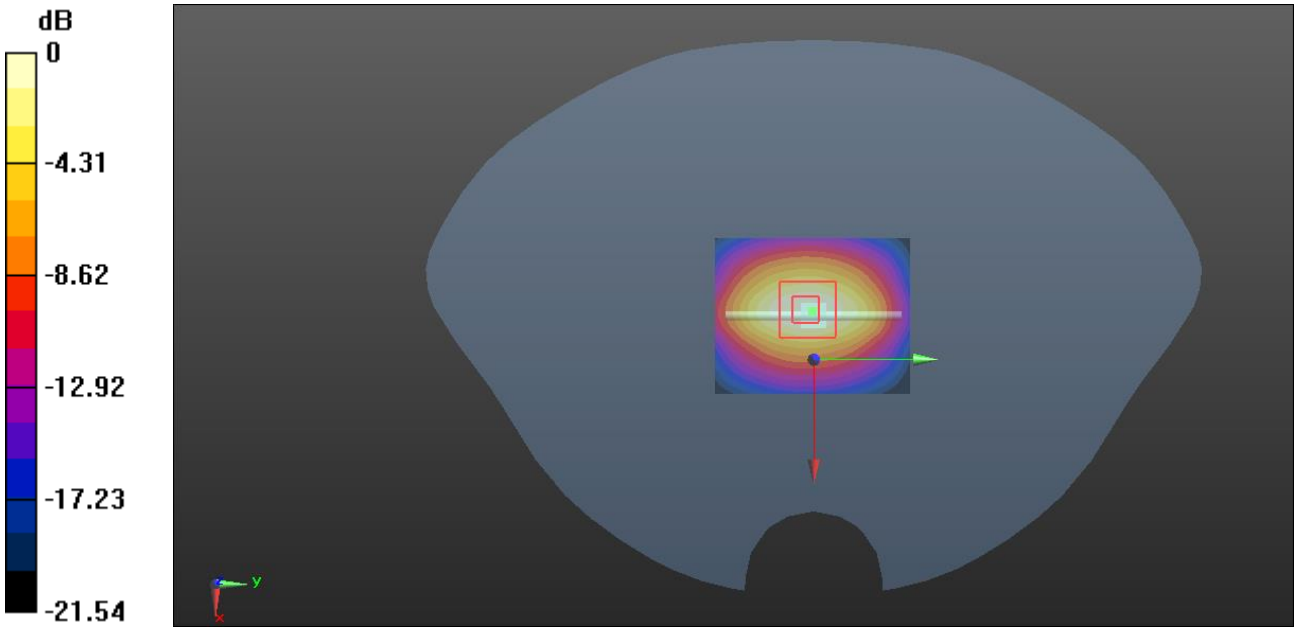
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.419 S/m; ε_r = 40.043; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(8, 8, 8) @ 1900 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 6.79 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.54 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 7.84 W/kg
SAR(1 g) = 4.21 W/kg; SAR(10 g) = 2.16 W/kg
Maximum value of SAR (measured) = 6.39 W/kg



0 dB = 6.39 W/kg = 8.06 dBW/kg

System Performance 2450MHz was performed on 2022/8/6

DUT: D2450V2; Type: 2450 MHz; Serial: 971

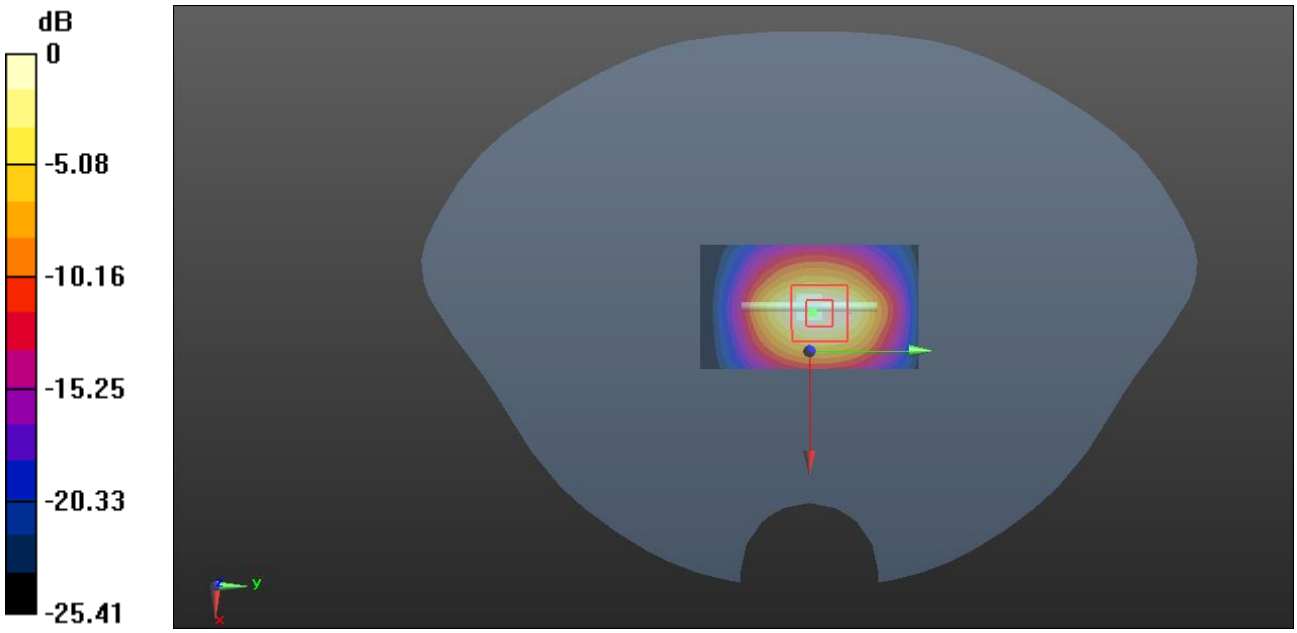
Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.812 S/m; ε_r = 39.198; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.42, 7.42, 7.42) @ 2450 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 7.74 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 51.32 V/m; Power Drift = -0.22 dB
Peak SAR (extrapolated) = 8.82 W/kg
SAR(1 g) = 4.99 W/kg; SAR(10 g) = 2.31 W/kg
Maximum value of SAR (measured) = 7.07 W/kg



0 dB = 7.07 W/kg = 8.49 dBW/kg

System Performance 5250 MHz was performed on 2022/8/7

DUT: Dipole D5GHzV2; Type: 5250 MHz; Serial: SN:1246

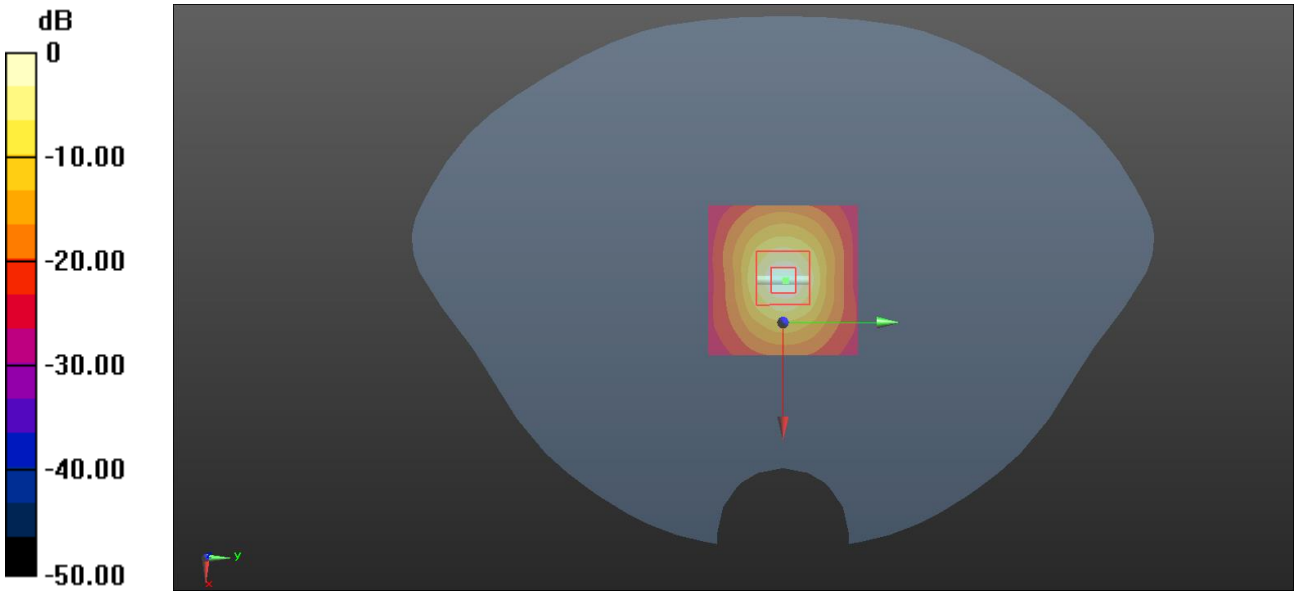
Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.729 S/m; ε_r = 35.982; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.49, 5.49, 5.49) @ 5250 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.6 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 40.19 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 36.5 W/kg
SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.17 W/kg
Maximum value of SAR (measured) = 20.5 W/kg



0 dB = 20.5 W/kg = 13.12 dBW/kg

System Performance 5300 MHz was performed on 2022/8/7

DUT: Dipole D5GHzV2; Type: 5300 MHz; Serial: SN:1246

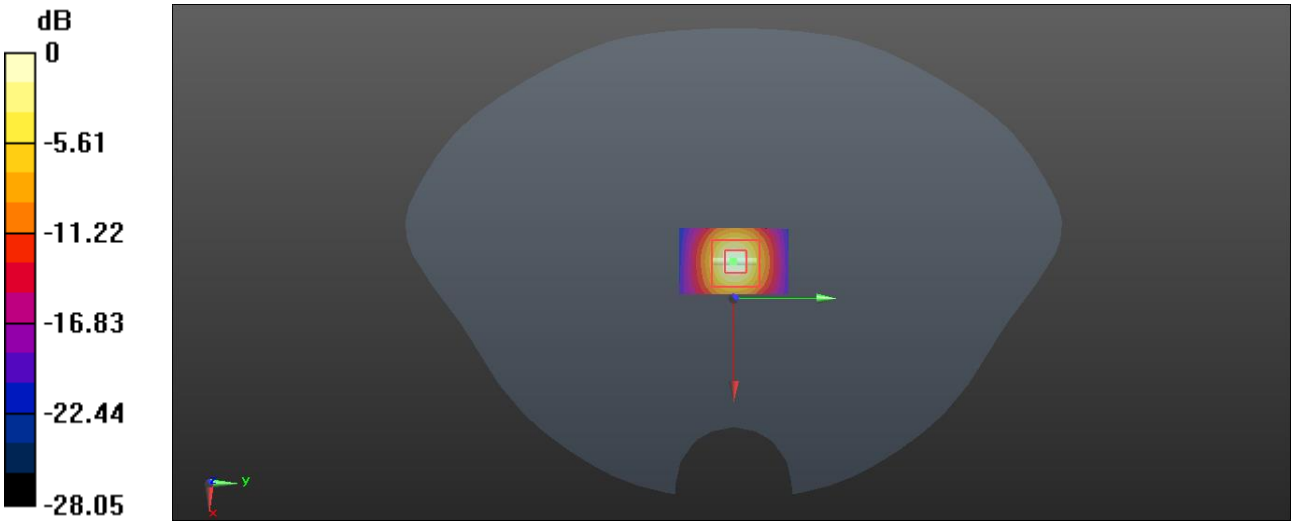
Communication System: CW ; Frequency: 5300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5300 MHz; σ = 4.774 S/m; ε_r = 35.825; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.2, 5.2, 5.2) @ 5300 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 21.8 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 41.42 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 32.4 W/kg
SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.24 W/kg
Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.1 W/kg = 13.03 dBW/kg

System Performance 5600 MHz was performed on 2022/8/7

DUT: Dipole D5GHzV2; Type: 5600 MHz; Serial: SN:1246

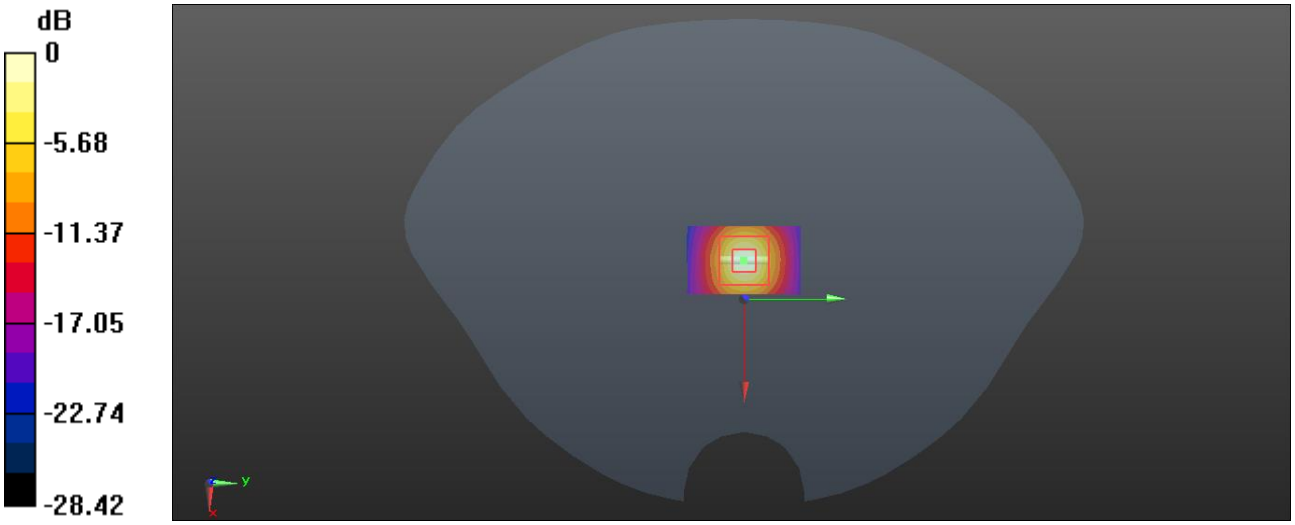
Communication System: CW; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.098 S/m; ε_r = 35.511; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.77, 4.77, 4.77) @ 5600 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.3 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 42.51 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 29.6 W/kg
SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.35 W/kg
Maximum value of SAR (measured) = 19.4 W/kg



0 dB = 19.4 W/kg = 12.88 dBW/kg

System Performance 5800 MHz was performed on 2022/8/7

DUT: Dipole D5GHzV2; Type: 5800 MHz; Serial: SN:1246

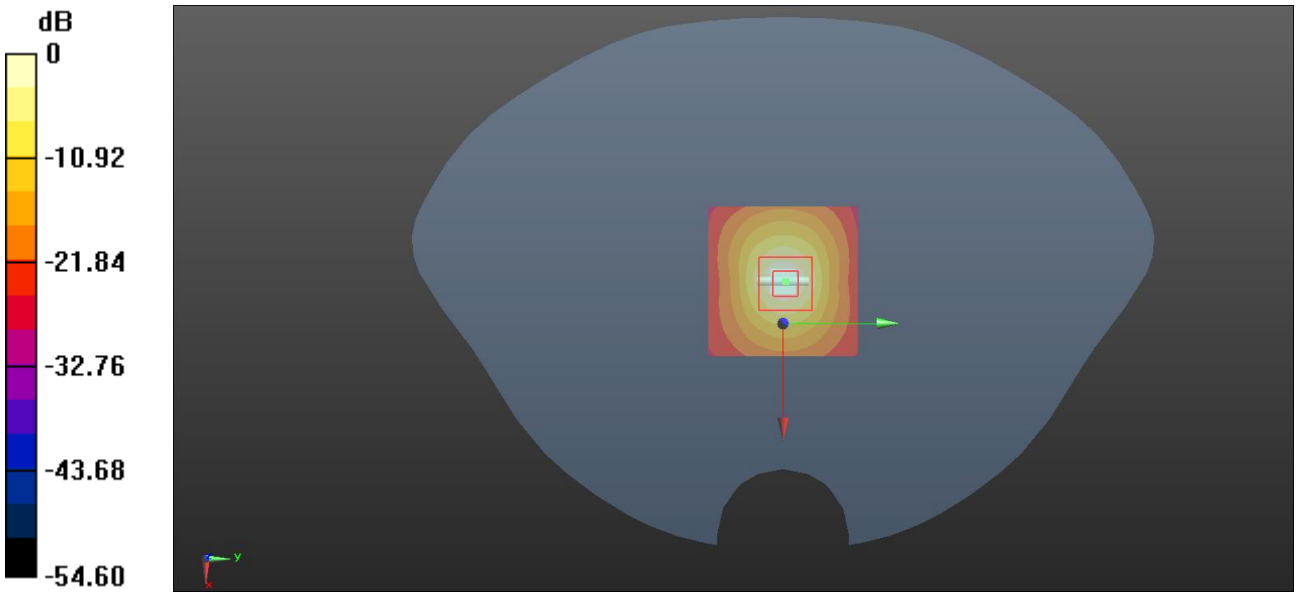
Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.292 S/m; ε_r = 35.187; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.75, 4.75, 4.75) @ 5800 MHz; Calibrated: 2021/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 21.1 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 40.09 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 37.4 W/kg
SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.13 W/kg
Maximum value of SAR (measured) = 20.9 W/kg



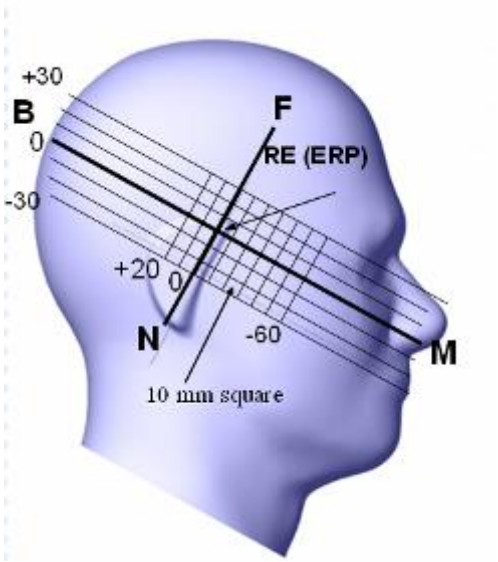
0 dB = 20.9 W/kg = 13.20 dBW/kg

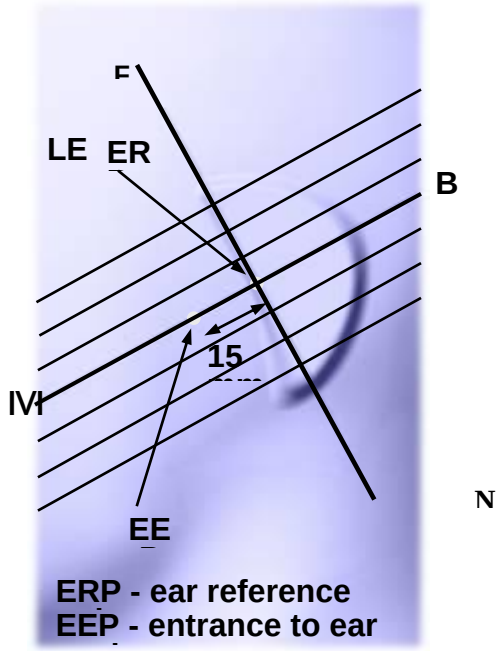
5. EUT TEST STRATEGY AND METHODOLOGY

5.1 Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point". The "test device reference point" should be located at the same level as the center of the earpiece region. The "vertical centerline" should bisect the front surface of the handset at its top and bottom edges. A "ear reference point" is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the "phantom reference plane" defined by the three lines joining the center of each "ear reference point" (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane". This is called the "initial ear position". While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:





5.2 Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the "ear reference point" or along the "N-F" line for the SCC-34/SC-2 head phantom.

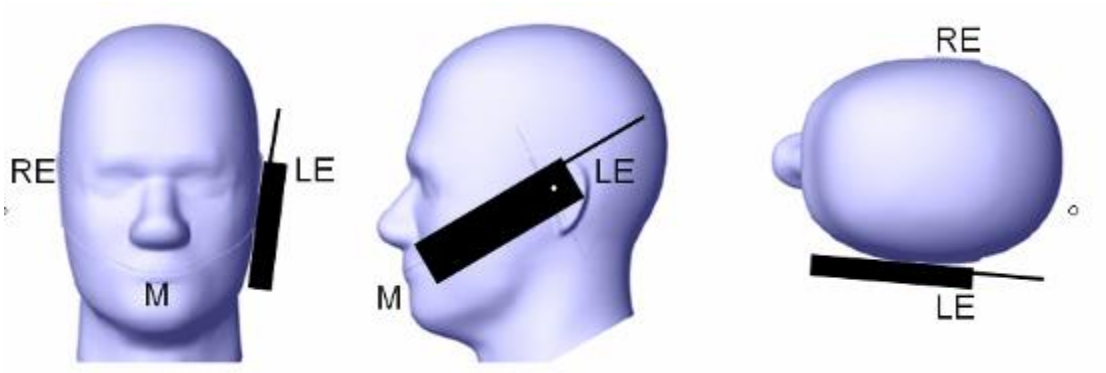
This test position is established:

When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek /Touch Position



5.3 Ear/Tilt Position

With the handset aligned in the "Cheek/Touch Position":

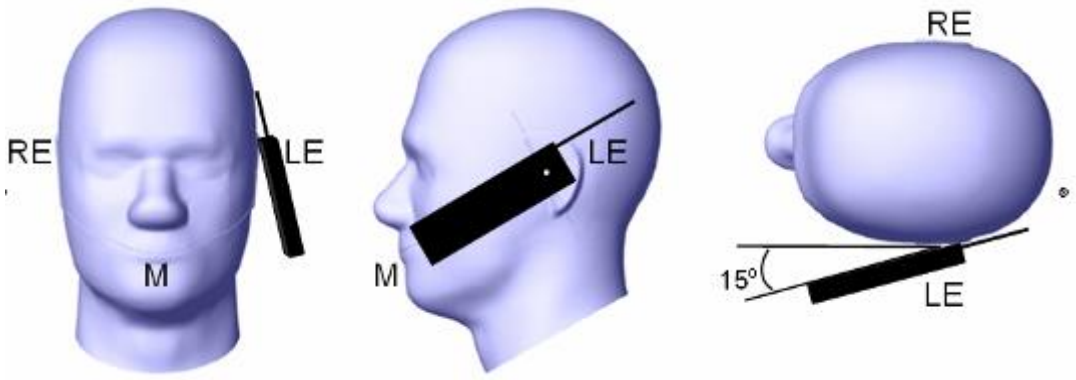
1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.

2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the "test device reference point" until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point is by 15 80 °. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15 °so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and

right side of the head phantom in the “Cheek/Touch” and “Ear/Tilt” positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

Ear /Tilt 15° Position



5.4 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.

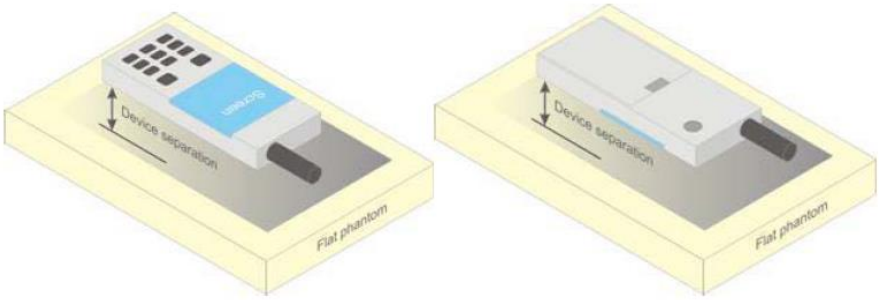


Figure 5 – Test positions for body-worn devices

5.5 Test Distance for SAR Evaluation

In this case the DUT(Device Under Test) is set 5mm away from the phantom, the test distance is 5mm

5.6 SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the “Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

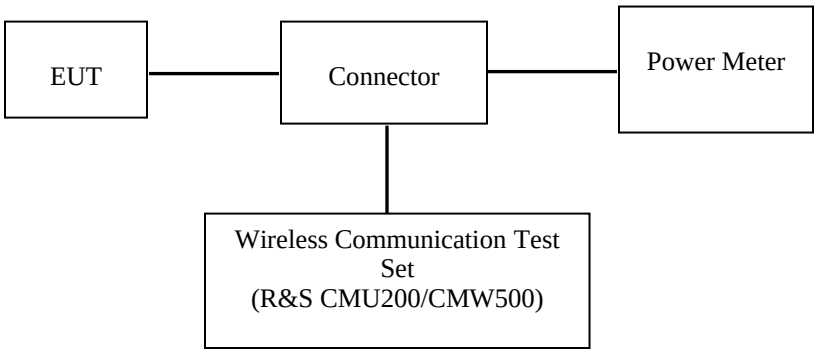
All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

6. CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Test Procedure

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



GSM/WCDMA/LTE

6.2 Description of Test Configuration

EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in each operation mode.
Equipment Modifications:	No
EUT Exercise Software:	No

The maximum power was configured per 3GPP Standard for each operation modes as below setting:

GSM/GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900
Press Connection control to choose the different menus
Press RESET > choose all the reset all settings
Connection Press Signal Off to turn off the signal and change settings
Network Support > GSM + GPRS or GSM + EGSM
Main Service > Packet Data
Service selection > Test Mode A – Auto Slot Config. off
MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting
> Slot configuration > Uplink/Gamma
> 33 dBm for GPRS 850
> 30 dBm for GPRS 1900
> 27 dBm for EGPRS 850
> 26 dBm for EGPRS 1900
BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel
Frequency Offset > + 0 Hz
Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)
BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off
P0 > 4 dB
Slot Config > Unchanged (if already set under MS signal)
TCH > choose desired test channel
Hopping > Off
Main Timeslot > 3
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)

Bit Stream > 2E9-1 PSR Bit Stream
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
Connection Press Signal on to turn on the signal and change settings

WCDMA-Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	βc / βd	8/15

WCDMA HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm2			
	βc	2/15	12/15	15/15	15/15
	βd	1 /15	15/15	8/15	4/15
	βd (SF)	64			
	βc/ βd	2/15	12/15	15/8	15/4
	βhs	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
HSDPA Specific Settings	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	Ahs=βhs/ βc	30/15			

WCDMA HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	**HSUPA**	**HSUPA**	**HSUPA**	**HSUPA**	**HSUPA**
	Subset	**1**	**2**		**4**	**5**
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	βc	11/15	6/15	15/15	2/15	15/15
	βd	15/15	15/15	9/15	15/15	0
	βec	209/225	12/15	30 15	2/15	5/15
	βc/ βd	11/15	6/15	15/9	2/15	-
	βhs	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
	MPR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	Ahs=βhs/ βc	30/15				
HSUPA Specific Settings	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate k ps	242.1	174.9	482.8	205.8	308.9
	Reference E_FCls	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	

HSPA+

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34.121-1

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed}1: 30/15 β_{ed}2: 30/15	β_{ed}3: 24/15 β_{ed}4: 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c .
Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.
Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

DC-HSDPA

The following tests were conducted according to the test requirements in Table C.8.1.12 of 3GPP TS 34.121-1

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK

Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.

LTE (FDD):

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

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

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

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

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

Network Signalling value	Requirements (sub-clause)	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	NA
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	See 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	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	Table 6.2.4-3
NS_11	6.6.2.2.1	23[1]	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

6.3 Maximum Target Output Power

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
GSM 850 GPRS 1 TX Slot	34	34	34
GSM 850 GPRS 2 TX Slot	32.5	32.5	32.5
GSM 850 GPRS 3 TX Slot	32	32	32
GSM 850 GPRS 4 TX Slot	31	31	31
GSM 850 EDGE 1 TX Slot	28	28	28
GSM 850 EDGE 2 TX Slot	27	27	27
GSM 850 EDGE 3 TX Slot	26	26	26
GSM 850 EDGE 4 TX Slot	25	25	25
PCS 1900 GPRS 1 TX Slot	32	32	32
PCS 1900 GPRS 2 TX Slot	31	31	31
PCS 1900 GPRS 3 TX Slot	30	30	30
PCS 1900 GPRS 4 TX Slot	29.5	29.5	29.5
PCS 1900 EDGE 1 TX Slot	27.5	27.5	27.5
PCS 1900 EDGE 2 TX Slot	27	27	27
PCS 1900 EDGE 3 TX Slot	26	26	26
PCS 1900 EDGE 4 TX Slot	25	25	25
WCDMA Band 2	22.5	22.5	22.5
HSDPA	22.5	22.5	22.5
HSUPA	23	23	23
DC-HSDPA	22.5	22.5	22.5
WCDMA Band 4	22.5	22.5	22.5
HSDPA	22.5	22.5	22.5
HSUPA	22.5	22.5	22.5
DC-HSDPA	22.5	22.5	22.5
WCDMA Band 5	22.5	22.5	22.5
HSDPA	22.5	22.5	22.5
HSUPA	22.5	22.5	22.5
DC-HSDPA	22.5	22.5	22.5
LTE Band 2	23	23	23
LTE Band 4	23	23	23
LTE Band 5	24	24	24
LTE Band 7	23	23	23
LTE Band 12	24	24	24
LTE Band 13	24	24	24
LTE Band 25	23	23	23
LTE Band 26	24	24	24

Max Target Power(dBm)			
Mode/Band	**Channel**		
	Low	**Middle**	**High**
WLAN 2.4G(802.11b)	14.5	14.5	14.5
WLAN 2.4G (802.11g)	14.5	14.5	14.5
WLAN 2.4G (802.11n HT20)	14.3	14.3	14.3
WLAN 2.4G (802.11n HT40)	14.3	14.3	14.3
Wi-Fi 5.2G (802.11a)	12	12	12
Wi-Fi 5.2G (802.11n ht20)	12	12	12
Wi-Fi 5.2G (802.11n ht40)	12	/	12
Wi-Fi 5.3G (802.11a)	12	12	12
Wi-Fi 5.3G (802.11n ht20)	12	12	12
Wi-Fi 5.3G (802.11n ht40)	11	/	11
Wi-Fi 5.6G (802.11a)	13.9	13.9	13.9
Wi-Fi 5.6G (802.11n ht20)	13.9	13.9	13.9
Wi-Fi 5.6G (802.11n ht40)	13.9	13.9	13.9
Wi-Fi 5.8G (802.11a)	15.5	15.5	15.5
Wi-Fi 5.8G (802.11n ht20)	15.5	15.5	15.5
Wi-Fi 5.8G (802.11n ht40)	15	/	15
BLE	2	2	2

6.4 Test Results:

GPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	33.29	31.98	31.58	30.54
	190	836.6	33.45	32.10	31.47	30.56
	251	848.8	33.29	32.36	31.84	30.65
PCS 1900	512	1850.2	31.08	30.25	29.60	29.37
	661	1880	31.38	30.46	29.80	29.35
	810	1909.8	31.28	30.13	29.90	29.34

EGPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	27.92	26.29	25.23	24.36
	190	836.6	27.77	26.56	25.66	24.70
	251	848.8	27.91	26.58	25.84	24.42
PCS 1900	512	1850.2	27.04	26.43	25.32	24.44
	661	1880	27.04	26.35	25.56	24.63
	810	1909.8	27.20	26.66	25.87	24.47

For SAR, the time based average power is relevant, the difference in between depends on the duty cycle of the TDMA signal.

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Time based Ave. power compared to slotted Ave. power	-9 dB	-6 dB	-4.25 dB	-3 dB
Crest Factor	8	4	2.66	2

The time based average power for GPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	24.29	25.98	27.33	27.54
	190	836.6	24.45	26.1	27.22	27.56
	251	848.8	24.29	26.36	27.59	**27.65**
PCS 1900	512	1850.2	22.08	24.25	25.35	**26.37**
	661	1880	22.38	24.46	25.55	26.35
	810	1909.8	22.28	24.13	25.65	26.34

The time based average power for EGPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	18.92	20.29	20.98	21.36
	190	836.6	18.77	20.56	21.41	21.7
	251	848.8	18.91	20.58	21.59	21.42
PCS 1900	512	1850.2	18.04	20.43	21.07	21.44
	661	1880	18.04	20.35	21.31	21.63
	810	1909.8	18.2	20.66	21.62	21.47

Note:

1. Rohde & Schwarz Radio Communication Tester (CMU200) was used for the measurement of GSM peak and average output power for active timeslots.
2 .For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).
3. According to KDB941225D01-SAR for EGPRS mode are not required when the source-based time-averaged output power for data mode is lower than that in the normal GPRS mode.

WCDMA:
Results (12.2kbps RMC)

Band	Frequency (MHz)	RF Output Power (dBm)
WCDMA Band 2	1852.4	22.27
	1880	22.17
	1907.6	**22.43**
WCDMA Band 4	1712.4	**22.40**
	1732.6	22.34
	1752.6	22.27
WCDMA Band 5	826.4	21.68
	836.6	**22.41**
	846.6	22.05

Results (HSDPA)

Band	Frequency (MHz)	RF Output Power (dBm)			
		Subset 1	Subset 2	Subset 3	Subset 4
WCDMA Band 2	1852.4	21.25	21.54	21.36	22.00
	1880	22.36	22.31	21.68	21.45
	1907.6	22.35	21.75	22.36	21.50
WCDMA Band 4	1712.4	22.06	21.39	21.28	20.83
	1732.6	22.03	21.26	21.07	20.80
	1752.6	21.28	22.29	22.29	21.32
WCDMA Band 5	826.4	22.39	22.15	22.39	21.65
	836.6	21.69	21.72	21.68	22.05
	846.6	21.88	21.63	21.29	21.13

Results (HSUPA)

Band	Frequency (MHz)	RF Output Power (dBm)				
		Subset 1	Subset 2	Subset 3	Subset 4	Subset 5
WCDMA Band 2	1852.4	21.59	21.49	21.18	22.17	22.18
	1880	22.03	21.53	21.81	22.39	21.14
	1907.6	**22.82**	22.44	22.27	22.52	21.33
WCDMA Band 4	1712.4	22.01	21.16	20.99	21.90	21.41
	1732.6	20.85	21.01	21.30	21.08	21.50
	1752.6	21.99	20.46	21.75	22.18	21.59
WCDMA Band 5	826.4	21.48	22.36	21.55	22.03	22.06
	836.6	21.85	21.91	21.32	21.35	21.66
	846.6	22.09	21.88	21.58	21.43	21.38

Results (DC-HSDPA)

Band	Frequency (MHz)	RF Output Power (dBm)			
		Subset 1	Subset 2	Subset 3	Subset 4
WCDMA Band 2	1852.4	21.51	22.38	21.23	22.36
	1880	22.04	21.86	22.03	21.15
	1907.6	22.07	22.19	22.40	22.20
WCDMA Band 4	1712.4	21.30	21.67	22.27	21.71
	1732.6	21.26	20.97	20.78	21.01
	1752.6	21.98	21.07	21.92	22.04
WCDMA Band 5	826.4	22.15	21.42	21.17	22.40
	836.6	22.26	22.04	21.65	21.77
	846.6	21.42	21.78	22.40	22.16

Note:

1. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model 1.
2. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA/DC-HSDPA when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

LTE Band 2:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	22.45	22.36	22.22
		RB1#3	0	0	22.43	22.33	22.31
		RB1#5	0	0	22.45	22.21	22.05
		RB3#0	1	1	**22.81**	22.37	22.25
		RB3#3	1	1	22.53	22.36	22.48
		RB6#0	1	1	21.36	21.37	21.35
	16-QAM	RB1#0	1	1	21.44	21.46	21.66
		RB1#3	1	1	21.56	21.24	22.04
		RB1#5	2	2	21.64	21.23	22.25
		RB3#0	2	2	21.49	21.26	21.93
		RB3#3	2	2	21.26	21.27	21.8
		RB6#0	2	2	20.81	20.42	20.83
3M	QPSK	RB1#0	0	0	22.50	22.21	22.24
		RB1#8	0	0	22.46	22.42	22.24
		RB1#14	0	0	22.57	22.32	22.14
		RB6#0	1	1	22.52	22.41	22.40
		RB6#9	1	1	22.55	22.41	22.50
		RB15#0	1	1	21.31	21.33	21.33
	16-QAM	RB1#0	1	1	22.02	21.69	21.6
		RB1#8	1	1	21.68	21.65	21
		RB1#14	1	1	22.21	21.41	21.17
		RB6#0	2	2	20.62	20.6	20.67
		RB6#9	2	2	20.82	20.65	20.78
		RB15#0	2	2	20.61	20.46	20.96
5M	QPSK	RB1#0	0	0	22.48	22.26	22.35
		RB1#13	0	0	22.51	22.38	22.34
		RB1#24	0	0	22.43	22.19	22.06
		RB15#0	1	1	22.53	22.31	22.32
		RB15#10	1	1	22.61	22.27	22.48
		RB25#0	1	1	21.47	21.25	21.34
	16-QAM	RB1#0	1	1	20.92	21.57	21.25
		RB1#13	1	1	21.01	21.36	21.28
		RB1#24	1	1	20.92	21.68	21.74
		RB15#0	2	2	20.63	20.49	20.71
		RB15#10	2	2	20.83	20.43	20.65
		RB25#0	2	2	20.86	20.58	20.86

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	0	0	22.39	22.40	22.35
		RB1#25	0	0	22.55	22.40	22.42
		RB1#49	1	1	22.55	22.15	22.05
		RB25#0	1	1	22.47	22.27	22.26
		RB25#25	1	1	22.58	22.23	22.49
		RB50#0	1	1	21.34	21.32	21.34
	16-QAM	RB1#0	1	1	21.66	21.96	22.15
		RB1#25	1	1	21.52	21.86	21.9
		RB1#49	1	1	21.52	22.14	22.29
		RB25#0	2	2	21.62	21.68	21.95
		RB25#25	2	2	22.09	21.73	22.25
		RB50#0	2	2	20.85	20.94	20.79
15M	QPSK	RB1#0	0	0	22.47	22.25	22.30
		RB1#38	0	0	22.54	22.31	22.32
		RB1#74	1	1	22.59	22.21	22.07
		RB36#0	1	1	22.46	22.29	22.32
		RB36#39	1	1	22.47	22.28	22.49
		RB75#0	1	1	21.47	21.41	21.43
	16-QAM	RB1#0	1	1	22.1	22	21.87
		RB1#38	1	1	22.26	21.65	21.75
		RB1#74	2	2	22.3	22.05	21.77
		RB36#0	2	2	20.85	20.94	20.79
		RB36#39	2	2	20.65	20.64	20.67
		RB75#0	2	2	20.62	20.61	20.57
20M	QPSK	RB1#0	0	0	22.35	22.27	22.33
		RB1#50	0	0	22.54	22.35	22.33
		RB1#99	0	0	22.52	22.17	22.15
		RB50#0	1	1	22.53	22.36	22.27
		RB50#50	1	1	22.45	22.36	22.59
		RB100#0	1	1	21.29	21.31	21.35
	16-QAM	RB1#0	1	1	22.06	21.87	21.88
		RB1#50	1	1	21.87	21.62	21.68
		RB1#99	2	2	21.89	22.38	22.32
		RB50#0	2	2	20.69	20.61	20.67
		RB50#50	2	2	20.79	20.54	20.91
		RB100#0	2	2	20.66	20.7	20.65

LTE Band 4:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	22.13	22.21	22.42
		RB1#3	0	0	22.25	**22.92**	22.39
		RB1#5	0	0	22.25	22.53	22.38
		RB3#0	1	1	22.34	22.42	22.37
		RB3#3	1	1	22.27	22.40	22.46
		RB6#0	1	1	21.34	21.45	21.41
	16-QAM	RB1#0	1	1	21.55	21.66	22
		RB1#3	1	1	21.65	21.62	21.38
		RB1#5	1	1	21.57	21.56	21.44
		RB3#0	2	2	21.42	21.57	21.51
		RB3#3	2	2	21.28	21.63	22.06
		RB6#0	2	2	21.2	21.7	20.96
3M	QPSK	RB1#0	0	0	22.15	21.24	22.01
		RB1#8	0	0	21.47	21.63	21.42
		RB1#14	1	1	21.15	21.17	22.09
		RB6#0	1	1	21.5	21.32	22.08
		RB6#9	1	1	21.17	21.55	22.02
		RB15#0	1	1	21.17	21.42	21.32
	16-QAM	RB1#0	1	1	21.38	21.6	21.95
		RB1#8	1	1	21.74	21.43	21.42
		RB1#14	2	2	21.47	21.61	21.18
		RB6#0	2	2	21.43	21.72	21.46
		RB6#9	2	2	21.2	21.78	21.95
		RB15#0	2	2	21.27	21.73	21.06
5M	QPSK	RB1#0	0	0	22.1	21.43	22.03
		RB1#13	0	0	21.35	21.55	21.32
		RB1#24	1	1	21.18	21.47	22.18
		RB15#0	1	1	21.29	21.49	22.17
		RB15#10	1	1	21.31	21.41	22.03
		RB25#0	1	1	21.24	21.41	21.39
	16-QAM	RB1#0	1	1	21.42	21.77	22.1
		RB1#13	1	1	21.67	21.62	21.36
		RB1#24	1	1	21.7	21.6	21.39
		RB15#0	2	2	21.52	21.61	21.46
		RB15#10	2	2	21.2	21.76	21.95
		RB25#0	2	2	21.16	21.8	20.91

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	0	0	22.09	21.4	22.11
		RB1#25	0	0	21.35	21.65	21.24
		RB1#49	0	0	21.18	21.27	21.9
		RB25#0	1	1	21.47	21.48	22.06
		RB25#25	1	1	21.37	21.49	21.95
		RB50#0	1	1	21.31	21.32	21.4
	16-QAM	RB1#0	1	1	21.5	21.69	21.99
		RB1#25	1	1	21.84	21.67	21.39
		RB1#49	2	2	21.55	21.45	21.3
		RB25#0	2	2	21.6	21.81	21.36
		RB25#25	2	2	21.31	21.63	22.04
		RB50#0	2	2	21.21	21.89	20.91
15M	QPSK	RB1#0	0	0	22.04	21.35	22
		RB1#38	0	0	21.31	21.62	21.26
		RB1#74	1	1	21.17	21.31	22
		RB36#0	1	1	21.4	21.28	22.16
		RB36#39	1	1	21.34	21.45	22.11
		RB75#0	1	1	21.2	21.57	21.38
	16-QAM	RB1#0	1	1	21.47	21.56	22.02
		RB1#38	1	1	21.89	21.54	21.42
		RB1#74	2	2	21.58	21.48	21.34
		RB36#0	2	2	21.65	21.61	21.47
		RB36#39	2	2	21.21	21.73	22.08
		RB75#0	2	2	21.19	21.77	21.05
20M	QPSK	RB1#0	0	0	22	21.79	22.06
		RB1#50	0	0	22.03	22.06	21.97
		RB1#99	1	1	22.53	22.78	22.51
		RB50#0	1	1	21.56	21.71	22.64
		RB50#50	1	1	21.32	21.39	22.16
		RB100#0	1	1	21.25	21.36	21.38
	16-QAM	RB1#0	1	1	21.52	21.63	21.94
		RB1#50	1	1	21.79	21.65	21.37
		RB1#99	2	2	21.61	21.32	21.37
		RB50#0	2	2	21.55	21.69	21.58
		RB50#50	2	2	21.23	21.69	22.02
		RB100#0	2	2	21.26	21.71	20.99

LTE Band 5:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	23.36	23.59	23.35
		RB1#3	0	0	23.18	23.4	23.45
		RB1#5	0	0	23.34	23.46	23.49
		RB3#0	1	1	23.47	23.58	23.47
		RB3#3	1	1	23.31	23.47	23.45
		RB6#0	1	1	22.38	22.64	22.4
	16-QAM	RB1#0	1	1	21.33	22.06	22.37
		RB1#3	1	1	22.37	22.31	21.52
		RB1#5	2	2	22.07	21.95	22.12
		RB3#0	2	2	21.32	22.18	21.52
		RB3#3	2	2	21.53	22.23	21.54
		RB6#0	2	2	21.57	21.27	21.48
3M	QPSK	RB1#0	0	0	23.31	23.48	23.28
		RB1#8	0	0	23.26	23.37	23.31
		RB1#14	1	1	23.4	23.41	23.37
		RB6#0	1	1	23.52	23.53	23.53
		RB6#9	1	1	23.39	**23.74**	23.46
		RB15#0	1	1	22.4	22.67	22.46
	16-QAM	RB1#0	1	1	21.5	22.25	22.09
		RB1#8	1	1	22.29	22.19	21.54
		RB1#14	2	2	22.12	21.85	22.19
		RB6#0	2	2	21.45	22.29	21.55
		RB6#9	2	2	21.44	22.14	21.55
		RB15#0	2	2	21.56	21.11	21.29
5M	QPSK	RB1#0	0	0	23.44	23.61	23.28
		RB1#13	0	0	23.33	23.41	23.34
		RB1#24	0	0	23.4	23.34	23.53
		RB15#0	1	1	23.39	23.48	23.63
		RB15#10	1	1	23.34	23.58	23.45
		RB25#0	1	1	22.36	22.67	22.37
	16-QAM	RB1#0	1	1	21.42	22.35	22.31
		RB1#13	1	1	22.35	22.13	21.52
		RB1#24	1	1	22.27	21.86	22.17
		RB15#0	2	2	21.19	22.04	21.46
		RB15#10	2	2	21.34	22.08	21.64
		RB25#0	2	2	21.43	21.16	21.41

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	0	0	23.39	23.53	23.32
		RB1#25	0	0	23.3	23.37	23.34
		RB1#49	1	1	23.33	23.33	23.46
		RB25#0	1	1	23.57	23.55	23.49
		RB25#25	1	1	23.29	23.61	23.43
		RB50#0	1	1	22.5	22.5	22.49
	16-QAM	RB1#0	1	1	21.42	22.17	22.15
		RB1#25	1	1	22.39	22.1	21.48
		RB1#49	2	2	22.24	22.05	22.19
		RB25#0	2	2	21.5	22.2	21.7
		RB25#25	2	2	21.55	22.14	21.58
		RB50#0	2	2	21.58	21.22	21.55

LTE Band 7:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	0	0	21.77	22.16	21.98
		RB1#13	0	0	21.78	22.06	22.07
		RB1#24	0	0	21.93	22.30	22.10
		RB15#0	1	1	21.36	21.20	21.24
		RB15#10	1	1	21.08	21.15	21.24
		RB25#0	1	1	21.13	21.12	21.23
	16-QAM	RB1#0	1	1	21.56	21.72	21.2
		RB1#13	1	1	20.7	21.4	20.84
		RB1#24	2	2	20.6	21.58	20.88
		RB15#0	2	2	20.58	20.25	20.27
		RB15#10	2	2	20.59	20.15	20.3
		RB25#0	2	2	20.72	20.33	20.26
10M	QPSK	RB1#0	0	0	22.10	22.33	22.01
		RB1#25	0	0	22.19	22.18	22.06
		RB1#49	1	1	22.29	22.67	22.29
		RB25#0	1	1	21.56	21.32	21.34
		RB25#25	1	1	21.25	21.38	21.29
		RB50#0	1	1	21.50	21.25	21.44
	16-QAM	RB1#0	1	1	21.44	21.53	21.26
		RB1#25	1	1	20.56	21.38	20.88
		RB1#49	1	1	20.52	21.62	21.01
		RB25#0	2	2	20.6	20.11	20.34
		RB25#25	2	2	20.61	20.17	20.2
		RB50#0	2	2	20.75	20.33	20.27
15M	QPSK	RB1#0	0	0	22.70	22.66	22.35
		RB1#38	0	0	22.34	22.62	22.22
		RB1#74	0	0	22.22	22.56	22.27
		RB36#0	1	1	21.46	21.59	21.47
		RB36#39	1	1	21.17	21.44	21.50
		RB75#0	1	1	21.43	21.60	21.47
	16-QAM	RB1#0	1	1	21.81	21.85	21.5
		RB1#38	1	1	21.32	21.69	21.45
		RB1#74	1	1	21.26	21.45	21.45
		RB36#0	2	2	20.37	20.69	20.58
		RB36#39	2	2	20.27	20.39	20.41
		RB75#0	2	2	20.48	20.48	20.4

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	RB1#0	0	0	22.56	22.84	**22.86**
		RB1#50	0	0	22.43	22.62	22.55
		RB1#99	1	1	22.45	22.74	22.69
		RB50#0	1	1	22.18	22.54	22.44
		RB50#50	1	1	21.86	21.79	21.94
		RB100#0	1	1	21.39	21.58	21.50
	16-QAM	RB1#0	1	1	21.57	22.15	21.72
		RB1#50	1	1	21.21	21.4	21.56
		RB1#99	2	2	21.29	22.03	21.77
		RB50#0	2	2	20.56	20.66	20.37
		RB50#50	2	2	20.12	20.46	20.53
		RB100#0	2	2	20.49	20.53	20.36

LTE Band 12:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	23.35	23.58	23.17
		RB1#3	0	0	23.32	23.55	23.33
		RB1#5	0	0	23.57	23.48	23.54
		RB3#0	1	1	23.54	23.50	23.18
		RB3#3	1	1	23.46	23.44	23.51
		RB6#0	1	1	22.48	22.50	22.29
	16-QAM	RB1#0	1	1	23.12	22.66	22.36
		RB1#3	1	1	23.35	22.69	22.41
		RB1#5	2	2	23.04	22.8	22.6
		RB3#0	2	2	22.85	22.59	22.14
		RB3#3	2	2	22.85	22.4	22.33
		RB6#0	2	2	22.01	21.37	21.69
3M	QPSK	RB1#0	0	0	23.35	**23.85**	23.20
		RB1#8	0	0	23.33	23.57	23.32
		RB1#14	0	0	23.48	23.55	23.47
		RB6#0	1	1	23.45	23.50	23.16
		RB6#9	1	1	23.49	23.35	23.45
		RB15#0	1	1	22.44	22.40	22.39
	16-QAM	RB1#0	1	1	23.45	23.17	22.43
		RB1#8	1	1	22.95	22.77	22.3
		RB1#14	1	1	22.65	22.65	22.65
		RB6#0	2	2	21.79	21.51	21.68
		RB6#9	2	2	21.51	21.69	21.87
		RB15#0	2	2	21.91	21.68	21.5
5M	QPSK	RB1#0	0	0	23.48	23.55	23.15
		RB1#13	0	0	23.47	23.57	23.47
		RB1#24	0	0	23.42	23.48	23.49
		RB15#0	1	1	23.54	23.56	23.25
		RB15#10	1	1	23.52	23.46	23.45
		RB25#0	1	1	22.41	22.48	22.42
	16-QAM	RB1#0	1	1	22.03	22.83	22.42
		RB1#13	1	1	21.68	22.51	22.3
		RB1#24	1	1	21.7	22.84	22.29
		RB15#0	2	2	21.79	21.29	21.72
		RB15#10	2	2	21.42	21.54	21.5
		RB25#0	2	2	21.71	21.41	21.73

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	0	0	23.46	23.80	23.18
		RB1#25	0	0	23.44	23.51	23.44
		RB1#49	1	1	23.55	23.55	23.56
		RB25#0	1	1	23.60	23.48	23.15
		RB25#25	1	1	23.55	23.41	23.50
		RB50#0	1	1	22.60	22.35	22.44
	16-QAM	RB1#0	1	1	22.87	22.7	22.46
		RB1#25	1	1	22.84	23.34	22.57
		RB1#49	1	1	22.8	22.82	22.2
		RB25#0	2	2	21.57	21.73	21.93
		RB25#25	2	2	21.76	21.69	21.69
		RB50#0	2	2	21.57	21.7	21.85

LTE Band 13:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	0	0	23.65	23.77	**23.89**
		RB1#13	0	0	23.31	23.21	23.47
		RB1#24	0	0	23.13	23.08	23.13
		RB15#0	1	1	22.6	22.61	22.54
		RB15#10	1	1	22.47	22.65	22.54
		RB25#0	1	1	22.76	22.57	22.54
	16-QAM	RB1#0	1	1	23.77	22.65	23.78
		RB1#13	1	1	23.26	22.47	23.17
		RB1#24	1	1	23.23	22.55	23.13
		RB15#0	2	2	22.66	21.36	22.51
		RB15#10	2	2	22.63	21.29	22.46
		RB25#0	2	2	22.52	21.5	22.7
10M	QPSK	RB1#0	0	0	/	23.8	/
		RB1#25	0	0	/	23.51	/
		RB1#49	1	1	/	23.45	/
		RB25#0	1	1	/	23.66	/
		RB25#25	1	1	/	23.09	/
		RB50#0	1	1	/	22.97	/
	16-QAM	RB1#0	1	1	/	22.43	/
		RB1#25	1	1	/	21.55	/
		RB1#49	1	1	/	21.46	/
		RB25#0	2	2	/	21.49	/
		RB25#25	2	2	/	23.29	/
		RB50#0	2	2	/	22.49	/

LTE Band 25:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	22.50	22.35	22.16
		RB1#3	0	0	**22.88**	22.44	22.21
		RB1#5	0	0	22.29	22.11	22.16
		RB3#0	1	1	21.55	21.11	21.37
		RB3#3	1	1	21.28	21.10	21.15
		RB6#0	1	1	21.21	21.26	21.29
	16-QAM	RB1#0	1	1	21.59	21.46	21.37
		RB1#3	1	1	21.72	21.73	21.18
		RB1#5	1	1	21.18	21.33	20.8
		RB3#0	2	2	20.39	20.6	20.65
		RB3#3	2	2	20.39	20.39	20.12
		RB6#0	2	2	20.32	20.27	20.29
3M	QPSK	RB1#0	0	0	22.33	22.14	22.35
		RB1#8	0	0	22.31	22.06	22.44
		RB1#14	1	1	22.43	22.14	22.06
		RB6#0	1	1	21.45	21.21	21.33
		RB6#9	1	1	21.29	21.06	21.16
		RB15#0	1	1	21.46	21.21	21.21
	16-QAM	RB1#0	1	1	21.69	21.38	21.63
		RB1#8	1	1	21.6	20.99	21.38
		RB1#14	2	2	21.57	21.27	21.41
		RB6#0	2	2	20.6	20.44	20.54
		RB6#9	2	2	20.19	20.17	20.2
		RB15#0	2	2	20.31	20.38	20.58
5M	QPSK	RB1#0	0	0	22.65	22.48	22.44
		RB1#13	0	0	22.44	22.72	22.68
		RB1#24	1	1	22.41	22.37	22.2
		RB15#0	1	1	21.55	21.47	21.25
		RB15#10	1	1	21.37	21.29	21.16
		RB25#0	1	1	21.33	21.42	21.25
	16-QAM	RB1#0	1	1	21.8	21.68	21.79
		RB1#13	1	1	21.53	21.8	22.3
		RB1#24	1	1	21.09	21.69	21.69
		RB15#0	2	2	20.48	20.41	20.06
		RB15#10	2	2	20.35	20.23	20.25
		RB25#0	2	2	20.39	20.36	20.14

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	0	0	22.38	22.54	22.26
		RB1#25	0	0	22.51	22.5	22.44
		RB1#49	0	0	22.44	22.1	22.34
		RB25#0	1	1	21.39	21.19	21.52
		RB25#25	1	1	21.55	21.09	21.08
		RB50#0	1	1	21.44	21.09	21.21
	16-QAM	RB1#0	1	1	21.76	21.55	21.31
		RB1#25	1	1	21.74	21.78	21.22
		RB1#49	2	2	21.27	21.41	20.92
		RB25#0	2	2	20.42	20.59	20.54
		RB25#25	2	2	20.41	20.43	20.12
		RB50#0	2	2	20.25	20.45	20.31
15M	QPSK	RB1#0	0	0	22.39	22.29	22.51
		RB1#38	0	0	22.26	22.08	22.46
		RB1#74	1	1	22.29	22.35	22.07
		RB36#0	1	1	21.32	21.34	21.31
		RB36#39	1	1	21.34	21.13	21.39
		RB75#0	1	1	21.37	21.07	21.38
	16-QAM	RB1#0	1	1	21.57	21.48	21.66
		RB1#38	1	1	21.39	21.04	21.51
		RB1#74	2	2	21.42	21.37	21.43
		RB36#0	2	2	20.48	20.54	20.51
		RB36#39	2	2	20.33	20.09	20.2
		RB75#0	2	2	20.45	20.31	20.45
20M	QPSK	RB1#0	0	0	22.58	22.55	22.57
		RB1#50	0	0	22.46	22.71	22.66
		RB1#99	1	1	22.48	22.39	22.12
		RB50#0	1	1	21.71	21.67	21.45
		RB50#50	1	1	21.27	21.27	21.14
		RB100#0	1	1	21.42	21.36	21.05
	16-QAM	RB1#0	1	1	21.71	21.67	21.69
		RB1#50	1	1	21.58	21.79	22.47
		RB1#99	2	2	21.21	21.75	21.68
		RB50#0	2	2	20.5	20.21	20.28
		RB50#50	2	2	20.46	20.28	20.23
		RB100#0	2	2	20.62	20.31	20.22

LTE Band 26:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	23.38	23.57	23.21
		RB1#3	0	0	23.43	23.27	23.45
		RB1#5	0	0	23.28	23.41	23.3
		RB3#0	1	1	23.45	23.54	23.26
		RB3#3	1	1	23.09	23.7	23.37
		RB6#0	1	1	22.32	22.66	22.25
	16-QAM	RB1#0	1	1	22.33	22.88	22.43
		RB1#3	1	1	22.23	22.64	22.43
		RB1#5	1	1	22.66	22.79	21.96
		RB3#0	2	2	22.51	22.93	22.5
		RB3#3	2	2	22.2	22.69	22.27
		RB6#0	2	2	21.4	21.53	21.32
3M	QPSK	RB1#0	0	0	23.1	23.73	23.23
		RB1#8	0	0	23.04	23.56	23.16
		RB1#14	1	1	23.26	23.68	23.19
		RB6#0	1	1	22.33	22.57	22.57
		RB6#9	1	1	22.11	22.44	22.39
		RB15#0	1	1	22.21	22.68	22.56
	16-QAM	RB1#0	1	1	22.55	22.98	22.67
		RB1#8	1	1	22.42	22.49	21.94
		RB1#14	2	2	22.32	23.01	22.13
		RB6#0	2	2	21.29	21.74	21.51
		RB6#9	2	2	21.41	21.73	21.4
		RB15#0	2	2	21.24	21.71	21.62
5M	QPSK	RB1#0	0	0	23.04	23.73	23.6
		RB1#13	0	0	23.07	23.43	23.13
		RB1#24	1	1	23.32	23.79	23.26
		RB15#0	1	1	22.24	22.7	22.67
		RB15#10	1	1	22.13	22.62	22.54
		RB25#0	1	1	22.4	22.61	22.6
	16-QAM	RB1#0	1	1	21.79	22.64	22.54
		RB1#13	1	1	21.36	22.48	21.87
		RB1#24	1	1	21.54	22.83	22.05
		RB15#0	2	2	21.21	21.68	21.68
		RB15#10	2	2	21.24	21.43	21.37
		RB25#0	2	2	21.25	21.4	21.53

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	0	0	23.49	23.66	23.48
		RB1#25	0	0	23.25	23.54	23.58
		RB1#49	0	0	23.39	23.55	23.45
		RB25#0	1	1	22.43	22.69	22.72
		RB25#25	1	1	22.35	22.72	22.52
		RB50#0	1	1	22.45	22.64	22.92
	16-QAM	RB1#0	1	1	22.84	22.58	22.76
		RB1#25	1	1	22.45	22.61	22.58
		RB1#49	2	2	22.73	22.71	22.46
		RB25#0	2	2	21.18	21.71	21.93
		RB25#25	2	2	21.26	21.39	21.58
		RB50#0	2	2	21.26	21.66	21.67
15M	QPSK	RB1#0	0	0	23.44	23.69	23.52
		RB1#38	0	0	23.41	23.39	23.52
		RB1#74	1	1	23.75	**23.89**	23.71
		RB36#0	1	1	22.48	22.62	22.57
		RB36#39	1	1	22.66	22.79	22.77
		RB75#0	1	1	22.40	22.66	22.68
	16-QAM	RB1#0	1	1	23.27	23.14	23.1
		RB1#38	1	1	22.49	22.51	22.69
		RB1#74	2	2	22.93	23.6	22.78
		RB36#0	2	2	21.47	21.76	21.72
		RB36#39	2	2	21.76	21.46	21.43
		RB75#0	2	2	21.51	21.74	21.69

Note:

1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
2. The CMW500 Wideband Radio Communication tester is used for LTE output power measurements and SAR testing. Closed loop power control is used to keep the radio transmitters the max output power during the test.
3. KDB941225D05v02- SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

Wi-Fi 2.4G:

Mode	Channel frequency (MHz)	Data Rate	RF Output Power(dBm)
802.11b	2412	1Mbps	14.2
	2437		13.93
	2462		14.38
802.11g	2412	6Mbps	14
	2437		14.36
	2462		14.12
802.11n HT20	2412	MCS0	14.06
	2437		13.83
	2462		14.05
802.11n HT40	2422	MCS0	13.28
	2437		13.4
	2452		14.07

Wi-Fi 5.2G:

Mode	Channel frequency (MHz)	Data Rate	Max Average Output Power(dBm)
802.11a	5180	6Mbps	10.26
	5200		11.46
	5240		11.58
802.11n20	5180	MCS0	11.27
	5200		11.53
	5240		11.54
802.11n40	5190	MCS0	11.43
	5230		11.32

Wi-Fi 5.3G:

Mode	Channel frequency (MHz)	Data Rate	Max Average Output Power(dBm)
802.11a	5260	6Mbps	11.31
	5280		11.41
	5320		11.83
802.11n20	5260	MCS0	11.25
	5280		11.82
	5320		11.43
802.11n40	5270	MCS0	10.69
	5310		10.53

Wi-Fi 5.6G:

Mode	Channel frequency (MHz)	Data Rate	Max Average Output Power(dBm)
802.11a	5500	6Mbps	13.12
	5580		13.25
	5700		13.81
802.11n20	5500	MCS0	11.95
	5580		12.66
	5700		13.76
802.11n40	5510	MCS0	11.61
	5550		12.29
	5670		13.77

Wi-Fi 5.8G:

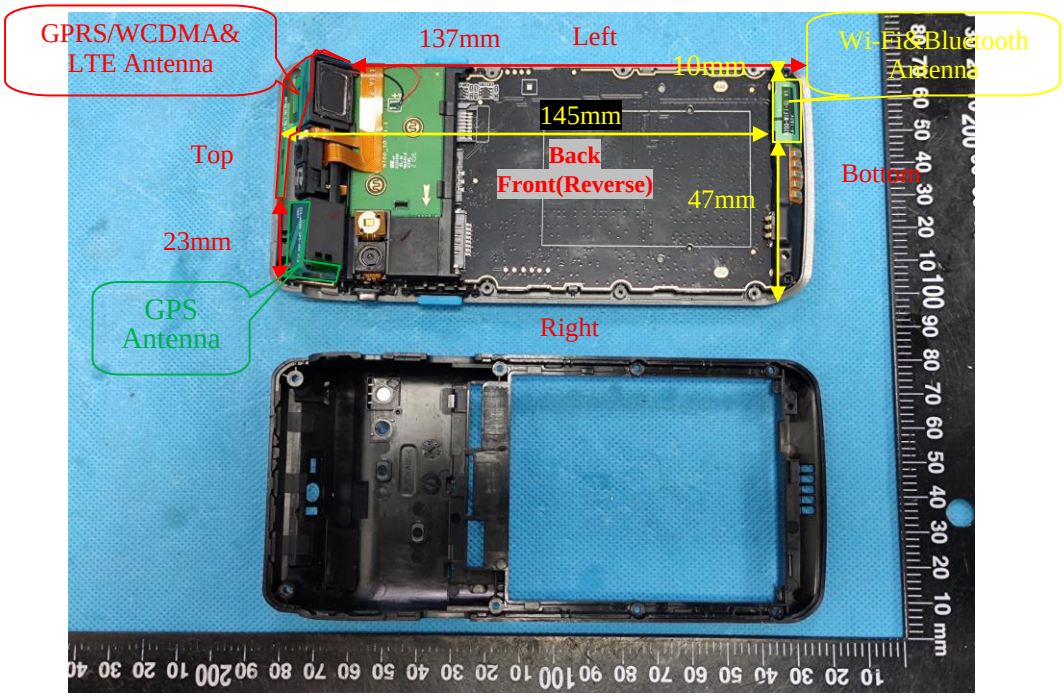
Mode	Channel frequency (MHz)	Data Rate	Max Average Output Power(dBm)
802.11a	5745	6Mbps	14.51
	5785		15.1
	5825		15.12
802.11n20	5745	MCS0	14.88
	5785		14.96
	5825		14.64
802.11n40	5755	MCS0	14.95
	5795		14.83

Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
BLE 1M	2402	1.91
	2440	0.58
	2480	1.12

7. Standalone SAR test exclusion considerations

Antennas Location:



7.1 Antenna Distance To Edge

Antenna Distance To Edge(mm)					
Antenna	**Back**	**Left**	**Right**	**Top**	**Bottom**
WWAN(GPRS/WCDMA/LTE)	< 5	< 5	23	< 5	137
Wi-Fi&Bluetooth Antenna	< 5	10	47	145	< 5

7.2 Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Distance (cm)	SAR-Based Exemption Threshold		Conducted output power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)	SAR Test Exclusion
			(mW)	(dBm)				
Wi-Fi 2.4G	2462	0.5	2.733	4.37	14.5	2.74	15.09	NO
Wi-Fi 5.2G	5240	0.5	1.492	1.74	12	2.74	12.59	NO
Wi-Fi 5.3G	5320	0.5	1.474	1.68	12	2.74	12.59	NO
Wi-Fi 5.6G	5700	0.5	1.395	1.45	13.9	2.74	14.49	NO
Wi-Fi 5.8G	5825	0.5	1.371	1.37	15.5	2.74	16.09	NO
Bluetooth	2480	0.5	2.717	4.34	2.0	2.74	2.59	YES

Note: *The bluetooth based peak power for calculation, and Wi-Fi based average power for calculation.*

NOTE:
According to 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.3 1- SAR-Based Exemption:

The SAR-based exemption formula of §1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{\text{th}}\ (\text{mW}) = \begin{cases} ERP_{20\ \text{cm}}(d/20\ \text{cm})^x & d \le 20\ \text{cm} \\ ERP_{20\ \text{cm}} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases} \qquad \text{(B.2)}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ \text{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).

$$ERP_{20\ \text{cm}}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases} \qquad \text{(B.1)}$$

7.3 Standalone SAR estimation:

Mode	Frequency (MHz)	Distance (cm)	P_{ant} (mW)	P_{th} (mW)	Estimated 1-g (W/kg)
BT Body	2480	0.5	1.58	2.717	0.93

Note: *The bluetooth based peak power for calculation. The final BT SAR value is based on the actual test value*

According to 447498 D04 Interim General RF Exposure Guidance v01, Appendix E:
SAR Estimations for Simultaneous Transmission Test Exemptions:

E.1 Estimated SAR

When an antenna qualifies for test exemption in single transmitter/antenna mode, its actual SAR value may not be available, because it was not required to be measured. In this case, the SAR contribution of that antenna to simultaneous transmission must be estimated relative to the SAR or MPE based exemption criteria for the applicable terms in the equation of § 1.1307(b)(3(ii)(B) (see also Appendix C), by multiplying the corresponding ratio by the SAR limit of 1.6 W/kg for 1-g SAR. This is referred to as *estimated SAR*.

For instance, a given antenna may qualify for a SAR-based exemption according to Section B.4, with $P_{ant} < P_{th}$, where P_{ant} is maximum time-averaged power or effective radiated power (ERP), whichever is greater, and P_{th} is defined in Formula (B.2). Then, per the preceding paragraph, the estimated SAR is computed as $SAR_{est} = 1.6 \cdot P_{ant} / P_{th}$ [W/kg].

When SAR is estimated, the peak SAR location is assumed to be at the feed-point or geometric center of the antenna, whichever provides a smaller antenna separation distance, and this location must be clearly identified in test reports. The estimated SAR is used only to determine simultaneous transmission SAR test exemption; it shall not be reported as the standalone SAR.

7.4 Standalone SAR test exclusion considerations:

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Test Exclusion Distance (mm)
GSM 850	848.8	28	631	133
PCS 1900	1909.8	26.5	446.7	84
WCDMA Band 2	1907.6	22.5	177.8	57
WCDMA Band 4	1752.6	22.5	177.8	56.5
WCDMA Band 5	846.6	22.5	177.8	52.7
LTE Band 4	1745	23	199.5	58.6
LTE Band 7	2560	23	199.5	60.6
LTE Band 12	711	24	251.2	65.5
LTE Band 13	782	24	251.2	65.7
LTE Band 25&2	1905	23	199.5	59.1
LTE Band 26&5	841.5	24	251.2	65.7
WLAN 2.4G	2462	14.5	28.2	14.8
WLAN 5.2G	5240	12	15.85	12.1
WLAN 5.3G	5320	12	15.85	12.2
WLAN 5.6G	5700	13.9	24.55	19.5
WLAN 5.8G	5825	15.5	35.48	28.6
Bluetooth	2480	2.0	1.58	<5

7.5 SAR test exclusion for the EUT edge considerations Result

Mode	Back	Left	Right	Top	Bottom
GSM 850	**Required**	**Required**	**Required**	**Required**	Exclusion
PCS 1900	**Required**	**Required**	**Required**	**Required**	Exclusion
WCDMA Band 2	**Required**	**Required**	**Required**	**Required**	Exclusion
WCDMA Band 4	**Required**	**Required**	**Required**	**Required**	Exclusion
WCDMA Band 5	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 2	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 4	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 7	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 13	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 26&5	**Required**	**Required**	**Required**	**Required**	Exclusion
WLAN 2.4G	**Required**	**Required**	Exclusion	Exclusion	**Required**
WLAN 5.2G	**Required**	**Required**	Exclusion	Exclusion	**Required**
WLAN 5.3G	**Required**	**Required**	Exclusion	Exclusion	**Required**
WLAN 5.6G	**Required**	**Required**	Exclusion	Exclusion	**Required**
WLAN 5.8G	**Required**	**Required**	Exclusion	Exclusion	**Required**
Bluetooth	**Required**	Exclusion	Exclusion	Exclusion	**Required**

Note:
Required:The distance is less than **Test Exclusion Distance**, the SAR test is required.
Exclusion: The distance is large than **Test Exclusion Distance**, SAR test is not required.

8. SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

8.1 SAR Test Data

Environmental Conditions

Temperature:	22.9-24.5 ℃	22.6-23.8 ℃	22.7-24.1 ℃	21.7-23.2 ℃	22.2-23.5 ℃	22.5-23.7 ℃
Relative Humidity:	37 %	42 %	35 %	32 %	47 %	31 %
ATM Pressure:	100 kPa	100 kPa	100.1 kPa	100.1 kPa	99.9 kPa	100.1 kPa
Test Date:	2022/06/18	2022/06/19	2022/06/20	2022/08/05	2022/08/06	2022/08/07

Testing was performed by Karl Gong, Ken Zong, Way Li.

Body-Supported :

GSM 850：

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.56	31	1.107	0.331	0.37	1#
	848.8	GPRS	/	/	/	/	/	/
Body Left (5mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.56	31	1.107	0.518	0.57	2#
	848.8	GPRS	/	/	/	/	/	/
Body Right (5mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.56	31	1.107	0.218	0.24	3#
	848.8	GPRS	/	/	/	/	/	/
Body Top (5mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.56	31	1.107	0.417	0.46	4#
	848.8	GPRS	/	/	/	/	/	/

The data above was performed on 2022/06/18

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same GSM antenna while testing SAR.
3. 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.
4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.
5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

PCS 1900：

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	29.35	29.5	1.035	0.22	0.23	5#
	1909.8	GPRS	/	/	/	/	/	/
Body Left (5mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	29.35	29.5	1.035	0.23	0.24	6#
	1909.8	GPRS	/	/	/	/	/	/
Body Right (5mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	29.35	29.5	1.035	0.015	0.02	7#
	1909.8	GPRS	/	/	/	/	/	/
Body Top (5mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	29.35	29.5	1.035	0.414	0.43	8#
	1909.8	GPRS	/	/	/	/	/	/

The data above was performed on 2022/06/19

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same GSM antenna while testing SAR.
3. 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.
4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.
5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

WCDMA Band 2:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	22.17	22.5	1.079	0.435	0.47	9#
	1907.6	RMC	/	/	/	/	/	/
Body Left (5mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	22.17	22.5	1.079	0.625	0.67	10#
	1907.6	RMC	/	/	/	/	/	/
Body Right (5mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	22.17	22.5	1.079	0.064	0.07	11#
	1907.6	RMC	/	/	/	/	/	/
Body Top (5mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	22.17	22.5	1.079	0.676	0.73	12#
	1907.6	RMC	/	/	/	/	/	/

The data above was performed on 2022/06/19

WCDMA Band 4:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.34	22.5	1.038	0.42	0.44	13#
	1752.6	RMC	/	/	/	/	/	/
Body Left (5mm)	1712.4	RMC	22.4	22.5	1.023	0.855	0.87	14#
	1732.6	RMC	22.34	22.5	1.038	0.799	0.83	15#
	1752.6	RMC	22.27	22.5	1.054	0.783	0.83	16#
Body Right (5mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.34	22.5	1.038	0.081	0.08	17#
	1752.6	RMC	/	/	/	/	/	/
Body Top (5mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.34	22.5	1.038	0.485	0.5	18#
	1752.6	RMC	/	/	/	/	/	/

The data above was performed on 2022/06/19

WCDMA Band 5:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.41	22.5	1.021	0.437	0.45	19#
	846.6	RMC	/	/	/	/	/	/
Body Left (5mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.41	22.5	1.021	0.564	0.58	20#
	846.6	RMC	/	/	/	/	/	/
Body Right (5mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.41	22.5	1.021	0.212	0.22	21#
	846.6	RMC	/	/	/	/	/	/
Body Top (5mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.41	22.5	1.021	0.698	0.71	22#
	846.6	RMC	/	/	/	/	/	/

The data above was performed on 2022/06/18

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model.
4. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA/DC-HSDPA when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.
5. 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.

LTE Band 4:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	22.78	23	1.052	0.666	0.7	23#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.71	23	1.346	0.507	0.68	24#
Body Left (5mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	22.78	23	1.052	0.674	0.71	25#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.71	23	1.346	0.499	0.67	26#
Body Right (5mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	22.78	23	1.052	0.064	0.07	27#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.71	23	1.346	0.048	0.06	28#
Body Top (5mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	22.78	23	1.052	0.718	0.76	29#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.71	23	1.346	0.544	0.73	30#

The data above was performed on 2022/06/19

LTE Band 7:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Left (5mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	22.84	23	1.038	0.16	0.17	31#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.74	23	1.337	0.129	0.17	32#
Body Left (5mm)	2510	20	1RB	22.56	23	1.107	0.623	0.69	33#
	2535	20	1RB	22.84	23	1.038	0.838	0.87	34#
	2560	20	1RB	22.86	23	1.033	1.09	1.13	35#
	2535	20	50%RB	22.54	23	1.112	0.71	0.79	36#
	2535	20	100%RB	21.58	23	1.387	0.514	0.71	37#
Body Right (5mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	22.84	23	1.038	0.194	0.2	38#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.74	23	1.337	0.059	0.08	39#
Body Top (5mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	22.84	23	1.038	0.457	0.47	40#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.74	23	1.337	0.355	0.47	41#

The data above was performed on 2022/06/20

LTE Band 12:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.8	24	1.047	0.013	0.01	42#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.48	24	1.127	0.011	0.01	43#
Body Left (5mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.8	24	1.047	0.029	0.03	44#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.48	24	1.127	0.015	0.02	45#
Body Right (5mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.8	24	1.047	<0.01	0.01	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.48	24	1.127	<0.01	0.01	/
Body Top (5mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.8	24	1.047	0.026	0.03	46#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.48	24	1.127	0.025	0.03	47#

The data above was performed on 2022/06/18

LTE Band 13:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	782	10	1RB	23.8	24	1.047	0.056	0.06	48#
	782	10	50%RB	23.66	24	1.081	0.045	0.05	49#
Body Left (5mm)	782	10	1RB	23.8	24	1.047	0.117	0.12	50#
	782	10	50%RB	23.66	24	1.081	0.143	0.15	51#
Body Right (5mm)	782	10	1RB	23.8	24	1.047	0.057	0.06	52#
	782	10	50%RB	23.66	24	1.081	0.046	0.05	53#
Body Top (5mm)	782	10	1RB	23.8	24	1.047	0.891	0.93	54#
	782	10	50%RB	23.66	24	1.081	0.716	0.77	55#
	782	10	100%RB	22.97	24	1.268	0.549	0.7	56#

The data above was performed on 2022/06/18

LTE Band 25&2:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	22.71	23	1.069	0.368	0.39	57#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.67	23	1.358	0.381	0.52	58#
Body Left (5mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	22.71	23	1.069	0.624	0.67	59#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.67	23	1.358	0.465	0.63	60#
Body Right (5mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	22.71	23	1.069	0.073	0.08	61#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.67	23	1.358	0.059	0.08	62#
Body Top (5mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	22.71	23	1.069	0.564	0.6	63#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.67	23	1.358	0.435	0.59	64#

The data above was performed on 2022/06/19

LTE Band 26&5:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	23.89	24	1.026	0.35	0.36	65#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.79	24	1.321	0.301	0.4	66#
Body Left (5mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	23.89	24	1.026	0.366	0.38	67#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.79	24	1.321	0.266	0.35	68#
Body Right (5mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	23.89	24	1.026	0.194	0.2	69#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.79	24	1.321	0.165	0.22	70#
Body Top (5mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	23.89	24	1.026	0.604	0.62	71#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.79	24	1.321	0.494	0.65	72#

The data above was performed on 2022/06/18

Note:

1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
2. KDB941225D05- 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.
3. When the SAR value is less than half of the limit, testing for other channels are optional.
4. Worst case SAR for 50% RB allocation is selected to be tested.
5. KDB941225D05- 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. KDB941225D05-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.
7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ 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. KDB941225D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

Wi-Fi 2.4G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.93	14.5	1.14	0.314	0.36	73#
	2462	802.11b	/	/	/	/	/	/
Body Left (5mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.93	16.7	1.14	0.144	0.16	74#
	2462	802.11b	/	/	/	/	/	/
Body Bottom (5mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.93	16.7	1.14	0.183	0.21	75#
	2462	802.11b	/	/	/	/	/	/

The data above was performed on 2022/06/20

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(801.11g/n20) 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.

Wi-Fi 5.2G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	11.46	12	1.132	0.069	0.08	76#
	5240	802.11a	/	/	/	/	/	/
Body Left (5mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	11.46	12	1.132	0.016	0.02	77#
	5240	802.11a	/	/	/	/	/	/
Body Bottom (5mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	11.46	12	1.132	0.06	0.07	78#
	5240	802.11a	/	/	/	/	/	/

The data above was performed on 2022/06/20

Wi-Fi 5.3G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	5260	802.11a	/	/	/	/	/	/
	5280	802.11a	11.51	12	1.119	0.1	0.11	79#
	5320	802.11a	/	/	/	/	/	/
Body Left (5mm)	5260	802.11a	/	/	/	/	/	/
	5280	802.11a	11.51	12	1.119	0.018	0.02	80#
	5320	802.11a	/	/	/	/	/	/
Body Bottom (5mm)	5260	802.11a	/	/	/	/	/	/
	5280	802.11a	11.51	12	1.119	0.04	0.04	81#
	5320	802.11a	/	/	/	/	/	/

The data above was performed on 2022/06/20

Wi-Fi 5.6G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	5500	802.11a	13.12	13.9	1.197	0.707	0.85	82#
	5580	802.11a	13.25	13.9	1.161	0.745	0.86	83#
	5700	802.11a	13.81	13.9	1.021	0.657	0.67	84#
Body Left (5mm)	5500	802.11a	/	/	/	/	/	/
	5580	802.11a	13.25	13.9	1.216	0.124	0.14	85#
	5700	802.11a	/	/	/	/	/	/
Body Bottom (5mm)	5500	802.11a	/	/	/	/	/	/
	5580	802.11a	13.25	13.9	1.216	0.28	0.33	86#
	5700	802.11a	/	/	/	/	/	/

The data above was performed on 2022/06/20

Wi-Fi 5.8G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	15.3	15.5	1.047	0.376	0.39	87#
	5825	802.11a	/	/	/	/	/	/
Body Left (5mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	15.3	15.5	1.047	0.02	0.02	88#
	5825	802.11a	/	/	/	/	/	/
Body Bottom (5mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	15.3	15.5	1.047	0.234	0.24	89#
	5825	802.11a	/	/	/	/	/	/

The data above was performed on 2022/06/20

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.

BLE:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (5mm)	2402	GFSK	/	/	/	/	/	/
	2440	GFSK	0.58	2	1.387	0.056	0.08	90#
	2480	GFSK	/	/	/	/	/	/
Body Bottom (5mm)	2402	GFSK	/	/	/	/	/	/
	2440	GFSK	0.58	2	1.387	0.037	0.05	91#
	2480	GFSK	/	/	/	/	/	/

The data above was performed on 2022/06/20

Handheld：

GSM 850：

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.56	31	1.107	0.402	0.45	92#
	848.8	GPRS	/	/	/	/	/	/
Handheld Left (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.56	31	1.107	0.443	0.49	93#
	848.8	GPRS	/	/	/	/	/	/
Handheld Right (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.56	31	1.107	0.179	0.2	94#
	848.8	GPRS	/	/	/	/	/	/
Handheld Top (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.56	31	1.107	0.459	0.51	95#
	848.8	GPRS	/	/	/	/	/	/

The data above was performed on 2022/08/05

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same GSM antenna while testing SAR.
3. 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.
4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.
5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

PCS 1900：

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	29.35	29.5	1.035	0.186	0.19	96#
	1909.8	GPRS	/	/	/	/	/	/
Handheld Left (0mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	29.35	29.5	1.035	0.346	0.36	97#
	1909.8	GPRS	/	/	/	/	/	/
Handheld Right (0mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	29.35	29.5	1.035	0.021	0.02	98#
	1909.8	GPRS	/	/	/	/	/	/
Handheld Top (0mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	29.35	29.5	1.035	0.314	0.32	99#
	1909.8	GPRS	/	/	/	/	/	/

The data above was performed on 2022/08/06

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same GSM antenna while testing SAR.
3. 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.
4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.
5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

WCDMA Band 2:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	22.17	22.5	1.079	0.277	0.3	100#
	1907.6	RMC	/	/	/	/	/	/
Handheld Left (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	22.17	22.5	1.079	0.329	0.35	101#
	1907.6	RMC	/	/	/	/	/	/
Handheld Right (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	22.17	22.5	1.079	0.052	0.06	102#
	1907.6	RMC	/	/	/	/	/	/
Handheld Top (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	22.17	22.5	1.079	0.434	0.47	103#
	1907.6	RMC	/	/	/	/	/	/

The data above was performed on 2022/08/06

WCDMA Band 4:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.34	22.5	1.038	0.487	0.51	104#
	1752.6	RMC	/	/	/	/	/	/
Handheld Left (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.34	22.5	1.038	0.694	0.72	105#
	1752.6	RMC	/	/	/	/	/	/
Handheld Right (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.34	22.5	1.038	0.063	0.07	106#
	1752.6	RMC	/	/	/	/	/	/
Handheld Top (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.34	22.5	1.038	0.747	0.78	107#
	1752.6	RMC	/	/	/	/	/	/

The data above was performed on 2022/08/07

WCDMA Band 5:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.41	22.5	1.021	0.574	0.59	108#
	846.6	RMC	/	/	/	/	/	/
Handheld Left (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.41	22.5	1.021	0.62	0.63	109#
	846.6	RMC	/	/	/	/	/	/
Handheld Right (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.41	22.5	1.021	0.197	0.2	110#
	846.6	RMC	/	/	/	/	/	/
Handheld Top (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.41	22.5	1.021	0.764	0.78	111#
	846.6	RMC	/	/	/	/	/	/

The data above was performed on 2022/08/05

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model.
4. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA/DC-HSDPA when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.
5. 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.

LTE Band 4:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	22.78	23	1.052	0.466	0.49	112#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.71	23	1.346	0.351	0.47	113#
Handheld Left (0mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	22.78	23	1.052	0.471	0.5	114#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.71	23	1.346	0.351	0.47	115#
Handheld Right (0mm)	826.4	20	1RB	/	/	/	/	/	/
	836.6	20	1RB	22.78	23	1.052	0.067	0.07	116#
	846.6	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.71	23	1.346	0.047	0.06	117#
Handheld Top (0mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	22.78	23	1.052	0.736	0.77	118#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.71	23	1.346	0.53	0.71	119#

The data above was performed on 2022/08/07

LTE Band 7:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	22.84	23	1.038	0.241	0.25	120#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.74	23	1.337	0.193	0.26	121#
Handheld Left (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	22.84	23	1.038	0.708	0.73	122#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	22.54	23	1.112	0.579	0.64	123#
Handheld Right (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	22.84	23	1.038	0.118	0.12	124#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.74	23	1.337	0.099	0.13	125#
Handheld Top (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	22.84	23	1.038	0.832	0.86	126#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.74	23	1.337	0.66	0.88	127#

The data above was performed on 2022/08/06

LTE Band 12:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.8	24	1.047	0.016	0.02	128#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.48	24	1.127	0.014	0.02	129#
Handheld Left (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.8	24	1.047	0.028	0.03	130#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.48	24	1.127	0.021	0.02	131#
Handheld Right (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.8	24	1.047	<0.01	0.01	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.48	24	1.127	<0.01	0.01	/
Handheld Top (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.8	24	1.047	0.081	0.08	132#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.48	24	1.127	0.063	0.07	133#

The data above was performed on 2022/08/05

LTE Band 13:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	782	10	1RB	23.8	24	1.047	0.098	0.1	134#
	782	10	50%RB	23.66	24	1.081	0.083	0.09	135#
Handheld Left (0mm)	782	10	1RB	23.8	24	1.047	0.102	0.11	136#
	782	10	50%RB	23.66	24	1.081	0.085	0.09	137#
Handheld Right (0mm)	782	10	1RB	23.8	24	1.047	0.052	0.05	138#
	782	10	50%RB	23.66	24	1.081	0.043	0.05	139#
Handheld Top (0mm)	782	10	1RB	23.8	24	1.047	0.442	0.46	140#
	782	10	50%RB	23.66	24	1.081	0.374	0.4	141#

The data above was performed on 2022/08/05

LTE Band 25&2:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	22.71	23	1.069	0.382	0.41	142#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.67	23	1.358	0.3	0.41	143#
Handheld Left (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	22.71	23	1.069	0.366	0.39	144#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.67	23	1.358	0.28	0.38	145#
Handheld Right (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	22.71	23	1.069	0.064	0.07	146#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.67	23	1.358	0.042	0.06	147#
Handheld Top (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	22.71	23	1.069	0.653	0.7	148#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.67	23	1.358	0.507	0.69	149#

The data above was performed on 2022/08/06

LTE Band 26&5:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	23.89	24	1.026	0.426	0.44	150#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.79	24	1.321	0.363	0.48	151#
Handheld Left (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	23.89	24	1.026	0.454	0.47	152#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.79	24	1.321	0.388	0.51	153#
Handheld Right (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	23.89	24	1.026	0.148	0.15	154#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.79	24	1.321	0.132	0.17	155#
Handheld Top (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	23.89	24	1.026	0.743	0.76	156#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.79	24	1.321	0.584	0.77	157#

The data above was performed on 2022/08/05

Note:

1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
2. KDB941225D05- 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.
3. When the SAR value is less than half of the limit, testing for other channels are optional.
4. Worst case SAR for 50% RB allocation is selected to be tested.
5. KDB941225D05- 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. KDB941225D05-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.
7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ 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. KDB941225D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

Wi-Fi 2.4G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.93	14.5	1.14	0.366	0.42	158#
	2462	802.11b	/	/	/	/	/	/
Handheld Left (0mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.93	14.5	1.14	0.149	0.17	159#
	2462	802.11b	/	/	/	/	/	/
Handheld Bottom (0mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.93	14.5	1.14	0.209	0.24	160#
	2462	802.11b	/	/	/	/	/	/

The data above was performed on 2022/08/06

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(801.11g/n20) 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.

Wi-Fi 5.2G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	11.46	12	1.132	0.046	0.05	161#
	5240	802.11a	/	/	/	/	/	/
Handheld Left (0mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	11.46	12	1.132	0.027	0.03	162#
	5240	802.11a	/	/	/	/	/	/
Handheld Bottom (0mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	11.46	12	1.132	0.047	0.05	163#
	5240	802.11a	/	/	/	/	/	/

The data above was performed on 2022/08/07

Wi-Fi 5.3G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	5260	802.11a	/	/	/	/	/	/
	5280	802.11a	11.51	12	1.119	0.063	0.07	164#
	5320	802.11a	/	/	/	/	/	/
Handheld Left (0mm)	5260	802.11a	/	/	/	/	/	/
	5280	802.11a	11.51	12	1.119	0.027	0.03	165#
	5320	802.11a	/	/	/	/	/	/
Handheld Bottom (0mm)	5260	802.11a	/	/	/	/	/	/
	5280	802.11a	11.51	12	1.119	0.068	0.08	166#
	5320	802.11a	/	/	/	/	/	/

The data above was performed on 2022/08/07

Wi-Fi 5.6G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	5500	802.11a	/	/	/	/	/	/
	5580	802.11a	13.25	13.9	1.161	0.374	0.43	167#
	5700	802.11a	/	/	/	/	/	/
Handheld Left (0mm)	5500	802.11a	/	/	/	/	/	/
	5580	802.11a	13.25	13.9	1.216	0.089	0.1	168#
	5700	802.11a	/	/	/	/	/	/
Handheld Bottom (0mm)	5500	802.11a	/	/	/	/	/	/
	5580	802.11a	13.25	13.9	1.216	0.116	0.13	169#
	5700	802.11a	/	/	/	/	/	/

The data above was performed on 2022/08/07

Wi-Fi 5.8G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	15.3	15.5	1.047	0.092	0.1	170#
	5825	802.11a	/	/	/	/	/	/
Handheld Left (0mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	15.3	15.5	1.047	0.032	0.03	171#
	5825	802.11a	/	/	/	/	/	/
Handheld Bottom (0mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	15.3	15.5	1.047	0.142	0.15	172#
	5825	802.11a	/	/	/	/	/	/

The data above was performed on 2022/08/07

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.

BLE:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10g SAR (W/kg), Limit=4.0W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld Back (0mm)	2402	GFSK	/	/	/	/	/	/
	2440	GFSK	0.58	2	1.387	0.123	0.17	173#
	2480	GFSK	/	/	/	/	/	/
Handheld Bottom (0mm)	2402	GFSK	/	/	/	/	/	/
	2440	GFSK	0.58	2	1.387	0.064	0.09	174#
	2480	GFSK	/	/	/	/	/	/

The data above was performed on 2022/08/06

9. SAR 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 (~ 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	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
750MHz (650-850MHz)	LTE Band 13	782	Body Top	0.891	0.867	1.03
1750MHz (1650-1850MHz)	WCDMA Band 4	1712.4	Body Left	0.855	0.841	1.02
2450MHz (2400-2550MHz)	LTE Band 7	2535	Body Left	0.838	0.823	1.02
2600MHz (2550-2700MHz)	LTE Band 7	2560	Body Left	1.09	1.04	1.05
5600MHz (5490-5700MHz)	Wi-Fi 5.6G	5580	Body Back	0.745	0.732	1.02

Handheld

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
/	/	/	/	/	/	/

Note:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.
2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
3. 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.

10. SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	**Simultaneous?**	**Hotspot?**
WWAN(GSM/WCDMA/LTE) + Bluetooth	√	×
WWAN(GSM/WCDMA/LTE) + WLAN 2.4G/5G	√	×
WLAN + Bluetooth	×	×

Simultaneous and Hotspot SAR test exclusion considerations:

Body-Supported Mode:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
GSM 850+ Bluetooth	Body Back	0.37	0.08	0.45
PCS 1900+ Bluetooth	Body Back	0.23	0.08	0.31
WCDMA Band 2+ Bluetooth	Body Back	0.47	0.08	0.55
WCDMA Band 4+ Bluetooth	Body Back	0.44	0.08	0.52
WCDMA Band 5+ Bluetooth	Body Back	0.45	0.08	0.53
LTE Band 4+ Bluetooth	Body Back	0.7	0.08	0.78
LTE Band 7+ Bluetooth	Body Back	0.17	0.08	0.25
LTE Band 12+ Bluetooth	Body Back	0.01	0.08	0.09
LTE Band 13+ Bluetooth	Body Back	0.01	0.08	0.09
LTE Band 25&2+ Bluetooth	Body Back	0.52	0.08	0.6
LTE Band 26&5+ Bluetooth	Body Back	0.4	0.08	0.48

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 2.4G	Body Back	0.37	0.36	0.73
	Body Left	0.57	0.16	0.73
	Body Right	0.24	NA	NA
	Body Top	0.46	NA	NA
	Body Bottom	NA	0.21	NA
PCS 1900+ Wi-Fi 2.4G	Body Back	0.23	0.36	0.59
	Body Left	0.24	0.16	0.4
	Body Right	0.02	NA	NA
	Body Top	0.43	NA	NA
	Body Bottom	NA	0.21	NA
WCDMA Band 2+ Wi-Fi 2.4G	Body Back	0.47	0.36	0.83
	Body Left	0.67	0.16	0.83
	Body Right	0.07	NA	NA
	Body Top	0.73	NA	NA
	Body Bottom	NA	0.21	NA
WCDMA Band 4+ Wi-Fi 2.4G	Body Back	0.44	0.36	0.8
	Body Left	0.87	0.16	1.03
	Body Right	0.08	NA	NA
	Body Top	0.5	NA	NA
	Body Bottom	NA	0.21	NA
WCDMA Band 5+ Wi-Fi 2.4G	Body Back	0.45	0.36	0.81
	Body Left	0.58	0.16	0.74
	Body Right	0.22	NA	NA
	Body Top	0.71	NA	NA
	Body Bottom	NA	0.21	NA
LTE Band 4+ Wi-Fi 2.4G	Body Back	0.7	0.36	1.06
	Body Left	0.71	0.16	0.87
	Body Right	0.07	NA	NA
	Body Top	0.76	NA	NA
	Body Bottom	NA	0.21	NA
LTE Band 7+ Wi-Fi 2.4G	Body Back	0.17	0.36	0.53
	Body Left	1.13	0.16	**1.29**
	Body Right	0.2	NA	NA
	Body Top	0.47	NA	NA
	Body Bottom	NA	0.21	NA
LTE Band 12+ Wi-Fi 2.4G	Body Back	0.01	0.36	0.37
	Body Left	0.03	0.16	0.19
	Body Right	0.01	NA	NA
	Body Top	0.03	NA	NA
	Body Bottom	NA	0.21	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 2.4G	Body Back	0.06	0.36	0.42
	Body Left	0.15	0.16	0.31
	Body Right	0.06	NA	NA
	Body Top	0.93	NA	NA
	Body Bottom	NA	0.21	NA
LTE Band 25&2+ Wi-Fi 2.4G	Body Back	0.52	0.36	0.88
	Body Left	0.67	0.16	0.83
	Body Right	0.08	NA	NA
	Body Top	0.6	NA	NA
	Body Bottom	NA	0.21	NA
LTE Band 26&5+ Wi-Fi 2.4G	Body Back	0.4	0.36	0.76
	Body Left	0.38	0.16	0.54
	Body Right	0.22	NA	NA
	Body Top	0.65	NA	NA
	Body Bottom	NA	0.21	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 5.2G	Body Back	0.37	0.08	0.45
	Body Left	0.57	0.02	0.59
	Body Right	0.24	NA	NA
	Body Top	0.46	NA	NA
	Body Bottom	NA	0.07	NA
PCS 1900+ Wi-Fi 5.2G	Body Back	0.23	0.08	0.31
	Body Left	0.24	0.02	0.26
	Body Right	0.02	NA	NA
	Body Top	0.43	NA	NA
	Body Bottom	NA	0.07	NA
WCDMA Band 2+ Wi-Fi 5.2G	Body Back	0.47	0.08	0.55
	Body Left	0.67	0.02	0.69
	Body Right	0.07	NA	NA
	Body Top	0.73	NA	NA
	Body Bottom	NA	0.07	NA
WCDMA Band 4+ Wi-Fi 5.2G	Body Back	0.44	0.08	0.52
	Body Left	0.87	0.02	0.89
	Body Right	0.08	NA	NA
	Body Top	0.5	NA	NA
	Body Bottom	NA	0.07	NA
WCDMA Band 5+ Wi-Fi 5.2G	Body Back	0.45	0.08	0.53
	Body Left	0.58	0.02	0.6
	Body Right	0.22	NA	NA
	Body Top	0.71	NA	NA
	Body Bottom	NA	0.07	NA
LTE Band 4+ Wi-Fi 5.2G	Body Back	0.7	0.08	0.78
	Body Left	0.71	0.02	0.73
	Body Right	0.07	NA	NA
	Body Top	0.76	NA	NA
	Body Bottom	NA	0.07	NA
LTE Band 7+ Wi-Fi 5.2G	Body Back	0.17	0.08	0.25
	Body Left	1.13	0.02	**1.15**
	Body Right	0.2	NA	NA
	Body Top	0.47	NA	NA
	Body Bottom	NA	0.07	NA
LTE Band 12+ Wi-Fi 5.2G	Body Back	0.01	0.08	0.09
	Body Left	0.03	0.02	0.05
	Body Right	0.01	NA	NA
	Body Top	0.03	NA	NA
	Body Bottom	NA	0.07	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 5.2G	Body Back	0.06	0.08	0.14
	Body Left	0.15	0.02	0.17
	Body Right	0.06	NA	NA
	Body Top	0.93	NA	NA
	Body Bottom	NA	0.07	NA
LTE Band 25&2+ Wi-Fi 5.2G	Body Back	0.52	0.08	0.6
	Body Left	0.67	0.02	0.69
	Body Right	0.08	NA	NA
	Body Top	0.6	NA	NA
	Body Bottom	NA	0.07	NA
LTE Band 26&5+ Wi-Fi 5.2G	Body Back	0.4	0.08	0.48
	Body Left	0.38	0.02	0.4
	Body Right	0.22	NA	NA
	Body Top	0.65	NA	NA
	Body Bottom	NA	0.07	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 5.3G	Body Back	0.37	0.11	0.48
	Body Left	0.57	0.02	0.59
	Body Right	0.24	NA	NA
	Body Top	0.46	NA	NA
	Body Bottom	NA	0.04	NA
PCS 1900+ Wi-Fi 5.3G	Body Back	0.23	0.11	0.34
	Body Left	0.24	0.02	0.26
	Body Right	0.02	NA	NA
	Body Top	0.43	NA	NA
	Body Bottom	NA	0.04	NA
WCDMA Band 2+ Wi-Fi 5.3G	Body Back	0.47	0.11	0.58
	Body Left	0.67	0.02	0.69
	Body Right	0.07	NA	NA
	Body Top	0.73	NA	NA
	Body Bottom	NA	0.04	NA
WCDMA Band 4+ Wi-Fi 5.3G	Body Back	0.44	0.11	0.55
	Body Left	0.87	0.02	0.89
	Body Right	0.08	NA	NA
	Body Top	0.5	NA	NA
	Body Bottom	NA	0.04	NA
WCDMA Band 5+ Wi-Fi 5.3G	Body Back	0.45	0.11	0.56
	Body Left	0.58	0.02	0.6
	Body Right	0.22	NA	NA
	Body Top	0.71	NA	NA
	Body Bottom	NA	0.04	NA
LTE Band 4+ Wi-Fi 5.3G	Body Back	0.7	0.11	0.81
	Body Left	0.71	0.02	0.73
	Body Right	0.07	NA	NA
	Body Top	0.76	NA	NA
	Body Bottom	NA	0.04	NA
LTE Band 7+ Wi-Fi 5.3G	Body Back	0.17	0.11	0.28
	Body Left	1.13	0.02	**1.15**
	Body Right	0.2	NA	NA
	Body Top	0.47	NA	NA
	Body Bottom	NA	0.04	NA
LTE Band 12+ Wi-Fi 5.3G	Body Back	0.01	0.11	0.12
	Body Left	0.03	0.02	0.05
	Body Right	0.01	NA	NA
	Body Top	0.03	NA	NA
	Body Bottom	NA	0.04	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 5.3G	Body Back	0.06	0.11	0.17
	Body Left	0.15	0.02	0.17
	Body Right	0.06	NA	NA
	Body Top	0.93	NA	NA
	Body Bottom	NA	0.04	NA
LTE Band 25&2+ Wi-Fi 5.3G	Body Back	0.52	0.11	0.63
	Body Left	0.67	0.02	0.69
	Body Right	0.08	NA	NA
	Body Top	0.6	NA	NA
	Body Bottom	NA	0.04	NA
LTE Band 26&5+ Wi-Fi 5.3G	Body Back	0.4	0.11	0.51
	Body Left	0.38	0.02	0.4
	Body Right	0.22	NA	NA
	Body Top	0.65	NA	NA
	Body Bottom	NA	0.04	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 5.6G	Body Back	0.37	0.86	1.23
	Body Left	0.57	0.14	0.71
	Body Right	0.24	NA	NA
	Body Top	0.46	NA	NA
	Body Bottom	NA	0.33	NA
PCS 1900+ Wi-Fi 5.6G	Body Back	0.23	0.86	1.09
	Body Left	0.24	0.14	0.38
	Body Right	0.02	NA	NA
	Body Top	0.43	NA	NA
	Body Bottom	NA	0.33	NA
WCDMA Band 2+ Wi-Fi 5.6G	Body Back	0.47	0.86	1.33
	Body Left	0.67	0.14	0.81
	Body Right	0.07	NA	NA
	Body Top	0.73	NA	NA
	Body Bottom	NA	0.33	NA
WCDMA Band 4+ Wi-Fi 5.6G	Body Back	0.44	0.86	1.3
	Body Left	0.87	0.14	1.01
	Body Right	0.08	NA	NA
	Body Top	0.5	NA	NA
	Body Bottom	NA	0.33	NA
WCDMA Band 5+ Wi-Fi 5.6G	Body Back	0.45	0.86	1.31
	Body Left	0.58	0.14	0.72
	Body Right	0.22	NA	NA
	Body Top	0.71	NA	NA
	Body Bottom	NA	0.33	NA
LTE Band 4+ Wi-Fi 5.6G	Body Back	0.7	0.86	**1.56**
	Body Left	0.71	0.14	0.85
	Body Right	0.07	NA	NA
	Body Top	0.76	NA	NA
	Body Bottom	NA	0.33	NA
LTE Band 7+ Wi-Fi 5.6G	Body Back	0.17	0.86	1.03
	Body Left	1.13	0.14	1.27
	Body Right	0.2	NA	NA
	Body Top	0.47	NA	NA
	Body Bottom	NA	0.33	NA
LTE Band 12+ Wi-Fi 5.6G	Body Back	0.01	0.86	0.87
	Body Left	0.03	0.14	0.17
	Body Right	0.01	NA	NA
	Body Top	0.03	NA	NA
	Body Bottom	NA	0.33	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 5.6G	Body Back	0.06	0.86	0.84
	Body Left	0.15	0.14	0.3
	Body Right	0.06	NA	NA
	Body Top	0.93	NA	NA
	Body Bottom	NA	0.33	NA
LTE Band 25&2+ Wi-Fi 5.6G	Body Back	0.52	0.86	1.3
	Body Left	0.67	0.14	0.82
	Body Right	0.08	NA	NA
	Body Top	0.6	NA	NA
	Body Bottom	NA	0.33	NA
LTE Band 26&5+ Wi-Fi 5.6G	Body Back	0.4	0.86	1.18
	Body Left	0.38	0.14	0.53
	Body Right	0.22	NA	NA
	Body Top	0.65	NA	NA
	Body Bottom	NA	0.33	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 5.8G	Body Back	0.37	0.39	0.76
	Body Left	0.57	0.02	0.59
	Body Right	0.24	NA	NA
	Body Top	0.46	NA	NA
	Body Bottom	NA	0.24	NA
PCS 1900+ Wi-Fi 5.8G	Body Back	0.23	0.39	0.62
	Body Left	0.24	0.02	0.26
	Body Right	0.02	NA	NA
	Body Top	0.43	NA	NA
	Body Bottom	NA	0.24	NA
WCDMA Band 2+ Wi-Fi 5.8G	Body Back	0.47	0.39	0.86
	Body Left	0.67	0.02	0.69
	Body Right	0.07	NA	NA
	Body Top	0.73	NA	NA
	Body Bottom	NA	0.24	NA
WCDMA Band 4+ Wi-Fi 5.8G	Body Back	0.44	0.39	0.83
	Body Left	0.87	0.02	0.89
	Body Right	0.08	NA	NA
	Body Top	0.5	NA	NA
	Body Bottom	NA	0.24	NA
WCDMA Band 5+ Wi-Fi 5.8G	Body Back	0.45	0.39	0.84
	Body Left	0.58	0.02	0.6
	Body Right	0.22	NA	NA
	Body Top	0.71	NA	NA
	Body Bottom	NA	0.24	NA
LTE Band 4+ Wi-Fi 5.8G	Body Back	0.7	0.39	1.09
	Body Left	0.71	0.02	0.73
	Body Right	0.07	NA	NA
	Body Top	0.76	NA	NA
	Body Bottom	NA	0.24	NA
LTE Band 7+ Wi-Fi 5.8G	Body Back	0.17	0.39	0.56
	Body Left	1.13	0.02	**1.15**
	Body Right	0.2	NA	NA
	Body Top	0.47	NA	NA
	Body Bottom	NA	0.24	NA
LTE Band 12+ Wi-Fi 5.8G	Body Back	0.01	0.39	0.4
	Body Left	0.03	0.02	0.05
	Body Right	0.01	NA	NA
	Body Top	0.03	NA	NA
	Body Bottom	NA	0.24	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 1.6W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 5.8G	Body Back	0.06	0.39	0.45
	Body Left	0.15	0.02	0.17
	Body Right	0.06	NA	NA
	Body Top	0.8	NA	NA
	Body Bottom	NA	0.24	NA
LTE Band 25&2+ Wi-Fi 5.8G	Body Back	0.52	0.39	0.91
	Body Left	0.67	0.02	0.69
	Body Right	0.08	NA	NA
	Body Top	0.6	NA	NA
	Body Bottom	NA	0.24	NA
LTE Band 26&5+ Wi-Fi 5.8G	Body Back	0.4	0.39	0.79
	Body Left	0.38	0.02	0.4
	Body Right	0.22	NA	NA
	Body Top	0.65	NA	NA
	Body Bottom	NA	0.24	NA

Conclusion:
Sum of SAR:**ΣSAR ≤ 1.6 W/kg** for 1g Body SAR,therefore simultaneous transmission SAR with Volume Scans is **not required**.

Handheld Mode:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
GSM 850+ Bluetooth	Handheld Back	0.45	0.42	0.87
PCS 1900+ Bluetooth	Handheld Back	0.19	0.42	0.61
WCDMA Band 2+ Bluetooth	Handheld Back	0.3	0.42	0.72
WCDMA Band 4+ Bluetooth	Handheld Back	0.51	0.42	0.93
WCDMA Band 5+ Bluetooth	Handheld Back	0.59	0.42	**1.01**
LTE Band 4+ Bluetooth	Handheld Back	0.49	0.42	0.91
LTE Band 7+ Bluetooth	Handheld Back	0.26	0.42	0.68
LTE Band 12+ Bluetooth	Handheld Back	0.02	0.42	0.44
LTE Band 13+ Bluetooth	Handheld Back	0.1	0.42	0.52
LTE Band 25&2+ Bluetooth	Handheld Back	0.41	0.42	0.83
LTE Band 26&5+ Bluetooth	Handheld Back	0.48	0.42	0.9

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 2.4G	Handheld Back	0.45	0.42	0.87
	Handheld Left	0.49	0.17	0.66
	Handheld Right	0.2	NA	NA
	Handheld Top	0.51	NA	NA
	Handheld Bottom	NA	0.24	NA
PCS 1900+ Wi-Fi 2.4G	Handheld Back	0.19	0.42	0.61
	Handheld Left	0.36	0.17	0.53
	Handheld Right	0.02	NA	NA
	Handheld Top	0.32	NA	NA
	Handheld Bottom	NA	0.24	NA
WCDMA Band 2+ Wi-Fi 2.4G	Handheld Back	0.3	0.42	0.72
	Handheld Left	0.35	0.17	0.52
	Handheld Right	0.06	NA	NA
	Handheld Top	0.47	NA	NA
	Handheld Bottom	NA	0.24	NA
WCDMA Band 4+ Wi-Fi 2.4G	Handheld Back	0.51	0.42	0.93
	Handheld Left	0.72	0.17	0.89
	Handheld Right	0.07	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.24	NA
WCDMA Band 5+ Wi-Fi 2.4G	Handheld Back	0.59	0.42	**1.01**
	Handheld Left	0.63	0.17	0.8
	Handheld Right	0.2	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.24	NA
LTE Band 4+ Wi-Fi 2.4G	Handheld Back	0.49	0.42	0.91
	Handheld Left	0.5	0.17	0.67
	Handheld Right	0.07	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.24	NA
LTE Band 7+ Wi-Fi 2.4G	Handheld Back	0.26	0.42	0.68
	Handheld Left	0.73	0.17	0.9
	Handheld Right	0.13	NA	NA
	Handheld Top	0.88	NA	NA
	Handheld Bottom	NA	0.24	NA
LTE Band 12+ Wi-Fi 2.4G	Handheld Back	0.02	0.42	0.44
	Handheld Left	0.03	0.17	0.2
	Handheld Right	0.01	NA	NA
	Handheld Top	0.08	NA	NA
	Handheld Bottom	NA	0.24	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 2.4G	Handheld Back	0.1	0.42	0.52
	Handheld Left	0.11	0.17	0.28
	Handheld Right	0.05	NA	NA
	Handheld Top	0.46	NA	NA
	Handheld Bottom	NA	0.24	NA
LTE Band 25&2+ Wi-Fi 2.4G	Handheld Back	0.41	0.42	0.83
	Handheld Left	0.39	0.17	0.56
	Handheld Right	0.07	NA	NA
	Handheld Top	0.7	NA	NA
	Handheld Bottom	NA	0.24	NA
LTE Band 26&5+ Wi-Fi 2.4G	Handheld Back	0.48	0.42	0.9
	Handheld Left	0.51	0.17	0.68
	Handheld Right	0.17	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.24	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 5.2G	Handheld Back	0.45	0.05	0.5
	Handheld Left	0.49	0.03	0.52
	Handheld Right	0.2	NA	NA
	Handheld Top	0.51	NA	NA
	Handheld Bottom	NA	0.05	NA
PCS 1900+ Wi-Fi 5.2G	Handheld Back	0.19	0.05	0.24
	Handheld Left	0.36	0.03	0.39
	Handheld Right	0.02	NA	NA
	Handheld Top	0.32	NA	NA
	Handheld Bottom	NA	0.05	NA
WCDMA Band 2+ Wi-Fi 5.2G	Handheld Back	0.3	0.05	0.35
	Handheld Left	0.35	0.03	0.38
	Handheld Right	0.06	NA	NA
	Handheld Top	0.47	NA	NA
	Handheld Bottom	NA	0.05	NA
WCDMA Band 4+ Wi-Fi 5.2G	Handheld Back	0.51	0.05	0.56
	Handheld Left	0.72	0.03	0.75
	Handheld Right	0.07	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.05	NA
WCDMA Band 5+ Wi-Fi 5.2G	Handheld Back	0.59	0.05	0.64
	Handheld Left	0.63	0.03	0.66
	Handheld Right	0.2	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.05	NA
LTE Band 4+ Wi-Fi 5.2G	Handheld Back	0.49	0.05	0.54
	Handheld Left	0.5	0.03	0.53
	Handheld Right	0.07	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.05	NA
LTE Band 7+ Wi-Fi 5.2G	Handheld Back	0.26	0.05	0.31
	Handheld Left	0.73	0.03	**0.76**
	Handheld Right	0.13	NA	NA
	Handheld Top	0.88	NA	NA
	Handheld Bottom	NA	0.05	NA
LTE Band 12+ Wi-Fi 5.2G	Handheld Back	0.02	0.05	0.07
	Handheld Left	0.03	0.03	0.06
	Handheld Right	0.01	NA	NA
	Handheld Top	0.08	NA	NA
	Handheld Bottom	NA	0.05	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 5.2G	Handheld Back	0.1	0.05	0.15
	Handheld Left	0.11	0.03	0.14
	Handheld Right	0.05	NA	NA
	Handheld Top	0.46	NA	NA
	Handheld Bottom	NA	0.05	NA
LTE Band 25&2+ Wi-Fi 5.2G	Handheld Back	0.41	0.05	0.46
	Handheld Left	0.39	0.03	0.42
	Handheld Right	0.07	NA	NA
	Handheld Top	0.7	NA	NA
	Handheld Bottom	NA	0.05	NA
LTE Band 26&5+ Wi-Fi 5.2G	Handheld Back	0.48	0.05	0.53
	Handheld Left	0.51	0.03	0.54
	Handheld Right	0.17	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.05	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 5.3G	Handheld Back	0.45	0.07	0.52
	Handheld Left	0.49	0.03	0.52
	Handheld Right	0.2	NA	NA
	Handheld Top	0.51	NA	NA
	Handheld Bottom	NA	0.08	NA
PCS 1900+ Wi-Fi 5.3G	Handheld Back	0.19	0.07	0.26
	Handheld Left	0.36	0.03	0.39
	Handheld Right	0.02	NA	NA
	Handheld Top	0.32	NA	NA
	Handheld Bottom	NA	0.08	NA
WCDMA Band 2+ Wi-Fi 5.3G	Handheld Back	0.3	0.07	0.37
	Handheld Left	0.35	0.03	0.38
	Handheld Right	0.06	NA	NA
	Handheld Top	0.47	NA	NA
	Handheld Bottom	NA	0.08	NA
WCDMA Band 4+ Wi-Fi 5.3G	Handheld Back	0.51	0.07	0.58
	Handheld Left	0.72	0.03	0.75
	Handheld Right	0.07	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.08	NA
WCDMA Band 5+ Wi-Fi 5.3G	Handheld Back	0.59	0.07	0.66
	Handheld Left	0.63	0.03	0.66
	Handheld Right	0.2	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.08	NA
LTE Band 4+ Wi-Fi 5.3G	Handheld Back	0.49	0.07	0.56
	Handheld Left	0.5	0.03	0.53
	Handheld Right	0.07	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.08	NA
LTE Band 7+ Wi-Fi 5.3G	Handheld Back	0.26	0.07	0.33
	Handheld Left	0.73	0.03	**0.76**
	Handheld Right	0.13	NA	NA
	Handheld Top	0.88	NA	NA
	Handheld Bottom	NA	0.08	NA
LTE Band 12+ Wi-Fi 5.3G	Handheld Back	0.02	0.07	0.09
	Handheld Left	0.03	0.03	0.06
	Handheld Right	0.01	NA	NA
	Handheld Top	0.08	NA	NA
	Handheld Bottom	NA	0.08	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 5.3G	Handheld Back	0.1	0.07	0.17
	Handheld Left	0.11	0.03	0.14
	Handheld Right	0.05	NA	NA
	Handheld Top	0.46	NA	NA
	Handheld Bottom	NA	0.08	NA
LTE Band 25&2+ Wi-Fi 5.3G	Handheld Back	0.41	0.07	0.48
	Handheld Left	0.39	0.03	0.42
	Handheld Right	0.07	NA	NA
	Handheld Top	0.7	NA	NA
	Handheld Bottom	NA	0.08	NA
LTE Band 26&5+ Wi-Fi 5.3G	Handheld Back	0.48	0.07	0.55
	Handheld Left	0.51	0.03	0.54
	Handheld Right	0.17	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.08	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 5.6G	Handheld Back	0.45	0.43	0.88
	Handheld Left	0.49	0.1	0.59
	Handheld Right	0.2	NA	NA
	Handheld Top	0.51	NA	NA
	Handheld Bottom	NA	0.13	NA
PCS 1900+ Wi-Fi 5.6G	Handheld Back	0.19	0.43	0.62
	Handheld Left	0.36	0.1	0.46
	Handheld Right	0.02	NA	NA
	Handheld Top	0.32	NA	NA
	Handheld Bottom	NA	0.13	NA
WCDMA Band 2+ Wi-Fi 5.6G	Handheld Back	0.3	0.43	0.73
	Handheld Left	0.35	0.1	0.45
	Handheld Right	0.06	NA	NA
	Handheld Top	0.47	NA	NA
	Handheld Bottom	NA	0.13	NA
WCDMA Band 4+ Wi-Fi 5.6G	Handheld Back	0.51	0.43	0.94
	Handheld Left	0.72	0.1	0.82
	Handheld Right	0.07	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.13	NA
WCDMA Band 5+ Wi-Fi 5.6G	Handheld Back	0.59	0.43	**1.02**
	Handheld Left	0.63	0.1	0.73
	Handheld Right	0.2	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.13	NA
LTE Band 4+ Wi-Fi 5.6G	Handheld Back	0.49	0.43	0.92
	Handheld Left	0.5	0.1	0.6
	Handheld Right	0.07	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.13	NA
LTE Band 7+ Wi-Fi 5.6G	Handheld Back	0.26	0.43	0.69
	Handheld Left	0.73	0.1	0.83
	Handheld Right	0.13	NA	NA
	Handheld Top	0.88	NA	NA
	Handheld Bottom	NA	0.13	NA
LTE Band 12+ Wi-Fi 5.6G	Handheld Back	0.02	0.43	0.45
	Handheld Left	0.03	0.1	0.13
	Handheld Right	0.01	NA	NA
	Handheld Top	0.08	NA	NA
	Handheld Bottom	NA	0.13	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 5.6G	Handheld Back	0.1	0.43	0.53
	Handheld Left	0.11	0.1	0.21
	Handheld Right	0.05	NA	NA
	Handheld Top	0.46	NA	NA
	Handheld Bottom	NA	0.13	NA
LTE Band 25&2+ Wi-Fi 5.6G	Handheld Back	0.41	0.43	0.84
	Handheld Left	0.39	0.1	0.49
	Handheld Right	0.07	NA	NA
	Handheld Top	0.7	NA	NA
	Handheld Bottom	NA	0.13	NA
LTE Band 26&5+ Wi-Fi 5.6G	Handheld Back	0.48	0.43	0.91
	Handheld Left	0.51	0.1	0.61
	Handheld Right	0.17	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.13	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
GSM 850+ Wi-Fi 5.8G	Handheld Back	0.45	0.1	0.55
	Handheld Left	0.49	0.03	0.52
	Handheld Right	0.2	NA	NA
	Handheld Top	0.51	NA	NA
	Handheld Bottom	NA	0.15	NA
PCS 1900+ Wi-Fi 5.8G	Handheld Back	0.19	0.1	0.29
	Handheld Left	0.36	0.03	0.39
	Handheld Right	0.02	NA	NA
	Handheld Top	0.32	NA	NA
	Handheld Bottom	NA	0.15	NA
WCDMA Band 2+ Wi-Fi 5.8G	Handheld Back	0.3	0.1	0.4
	Handheld Left	0.35	0.03	0.38
	Handheld Right	0.06	NA	NA
	Handheld Top	0.47	NA	NA
	Handheld Bottom	NA	0.15	NA
WCDMA Band 4+ Wi-Fi 5.8G	Handheld Back	0.51	0.1	0.61
	Handheld Left	0.72	0.03	0.75
	Handheld Right	0.07	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.15	NA
WCDMA Band 5+ Wi-Fi 5.8G	Handheld Back	0.59	0.1	0.69
	Handheld Left	0.63	0.03	0.66
	Handheld Right	0.2	NA	NA
	Handheld Top	0.78	NA	NA
	Handheld Bottom	NA	0.15	NA
LTE Band 4+ Wi-Fi 5.8G	Handheld Back	0.49	0.1	0.59
	Handheld Left	0.5	0.03	0.53
	Handheld Right	0.07	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.15	NA
LTE Band 7+ Wi-Fi 5.8G	Handheld Back	0.26	0.1	0.36
	Handheld Left	0.73	0.03	**0.76**
	Handheld Right	0.13	NA	NA
	Handheld Top	0.88	NA	NA
	Handheld Bottom	NA	0.15	NA
LTE Band 12+ Wi-Fi 5.8G	Handheld Back	0.02	0.1	0.12
	Handheld Left	0.03	0.03	0.06
	Handheld Right	0.01	NA	NA
	Handheld Top	0.08	NA	NA
	Handheld Bottom	NA	0.15	NA

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR≤ 4.0W/kg
		SAR1	SAR2	
LTE Band 13+ Wi-Fi 5.8G	Handheld Back	0.1	0.1	0.2
	Handheld Left	0.11	0.03	0.14
	Handheld Right	0.05	NA	NA
	Handheld Top	0.46	NA	NA
	Handheld Bottom	NA	0.15	NA
LTE Band 25&2+ Wi-Fi 5.8G	Handheld Back	0.41	0.1	0.51
	Handheld Left	0.39	0.03	0.42
	Handheld Right	0.07	NA	NA
	Handheld Top	0.7	NA	NA
	Handheld Bottom	NA	0.15	NA
LTE Band 26&5+ Wi-Fi 5.8G	Handheld Back	0.48	0.1	0.58
	Handheld Left	0.51	0.03	0.54
	Handheld Right	0.17	NA	NA
	Handheld Top	0.77	NA	NA
	Handheld Bottom	NA	0.15	NA

Conclusion:
Sum of SAR:**ΣSAR ≤ 4.0 W/kg** for 10g Handheld SAR,therefore simultaneous transmission SAR with Volume Scans is **not required**.

11. SAR Plots

Please Refer to the Attachment.

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

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.3	6.3
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Linearity	4.7	R	√3	1	1	2.7	2.7
Detection limits	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions– reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
Test sample related							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	√3	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.1	23.7

Measurement uncertainty evaluation for IEC62209-1 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.3	6.3
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Linearity	4.7	R	√3	1	1	2.7	2.7
Detection limits	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
RF ambient conditions– reflections	1.0	R	√3	1	1	0.6	0.6
Post-processing	2.0	R	√3	1	1	1.2	1.2
Test sample related							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	√3	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.0	23.6

APPENDIX B EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

APPENDIX C CALIBRATION CERTIFICATES

Please Refer to the Attachment.

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