

TEST REPORT

Report No.: BCTC2501003549E

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY
CO.,LTD

Product Name: Smart Phone

Test Model: C61

Tested Date: 2025-01-03 to 2025-03-11

Issued Date: 2025-03-11

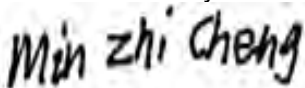
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2ANMU-25155

Product Name: Smart Phone
Trademark: OUKITEL
Model/Type Reference: C61
C61 E, C61 S, C61 Pro, C61 Plus, C61 Ultra, C61 GT
Prepared For: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
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Manufacturer: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
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Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng,
Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2025-01-03
Sample tested Date: 2025-01-03 to 2025-03-11
Issue Date: 2025-03-11
Test Standards: IEEE Std C95.1-2019
IEEE Std 1528-2013
FCC Part 2.1093
Test Results: PASS
Remark: This is SAR test report

Tested by:



Min Zhi Cheng / Project Handler

Approved by:



Zero Zhou / Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

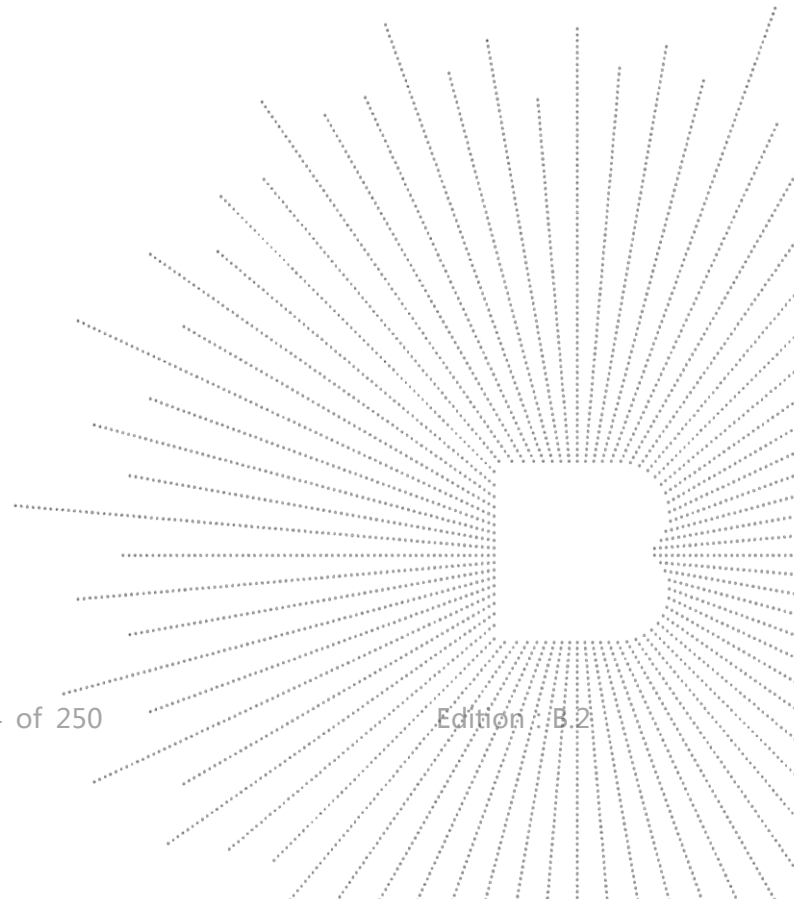
Table Of Content

Test Report Declaration	Page
1. Version	5
2. Test Standards	6
3. Test Summary	7
4. SAR Limits	8
5. Measurement Uncertainty	9
6. Product Information and Test Setup	10
6.1 Product Information	10
6.2 Test Setup Configuration	14
6.3 Support Equipment	14
6.4 Test Environment	14
7. Test Facility and Test Instrument Used	15
7.1 Test Facility	15
7.2 Test Instrument Used	16
8. Specific Absorption Rate (SAR)	17
8.1 Introduction	17
8.2 SAR Definition	17
9. SAR Measurement System	18
9.1 The Measurement System	18
9.2 Probe	18
9.3 Probe Calibration Process	20
9.4 Phantom	21
9.5 Device Holder	21
10. Tissue Simulating Liquids	22
10.1 Composition of Tissue Simulating Liquid	22
10.2 Limit	23
10.3 Tissue Calibration Result	24
11. System Check	25
11.1 Purpose of System Performance Check	25
11.2 System Setup	25
11.3 Validation Results	26
12. EUT Testing Position	27
12.1 Define Two Imaginary Lines on the Handset	27
12.2 Cheek Position	27
12.3 Tilted Position	28
12.4 Body Position	28
13. SAR Measurement Procedures	29
13.1 Measurement Procedures	29
13.2 Spatial Peak SAR Evaluation	29
13.3 Area & Zoom Scan Procedures	30
13.4 Volume Scan Procedures	31
13.5 SAR Averaged Methods	31
13.6 Power Drift Monitoring	31
14. SAR Test Result	32

14.1 Conducted RF Output Power.....	32
14.2 Transmit Antennas and SAR Measurement Position.....	75
14.3 Measured and Reported (Scaled) SAR Results	76
14.4 SAR Measurement Variability.....	85
14.5 Simultaneous Transmission Evaluation	86
15. Test Plots	88
15.1 System Performance Check.....	88
15.2 SAR Test Graph Results	104
16. CALIBRATION CERTIFICATES.....	140
17. EUT Photographs.....	243
18. Photographs Of The Liquid.....	244
19. EUT Test Setup Photographs.....	245

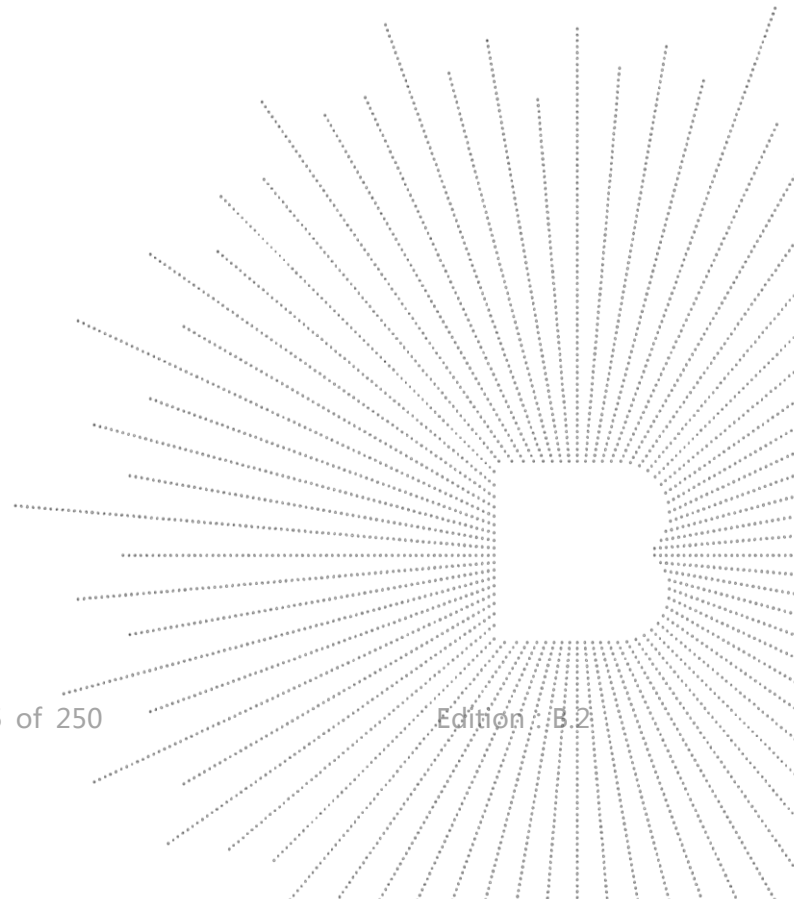
(Note: N/A Means Not Applicable)

TEST
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2501003549E	2025-02-28	Original	Valid



2. Test Standards

IEEE Std C95.1-2019: IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

IEEE Std 1528-2013: IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

FCC Part 2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices

KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies

KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz

KDB 865664 D02 RF Exposure Reporting v01r02: RF Exposure Compliance Reporting and Documentation Considerations

KDB 248227 D01 802.11 Wi-Fi SAR v02r02: SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

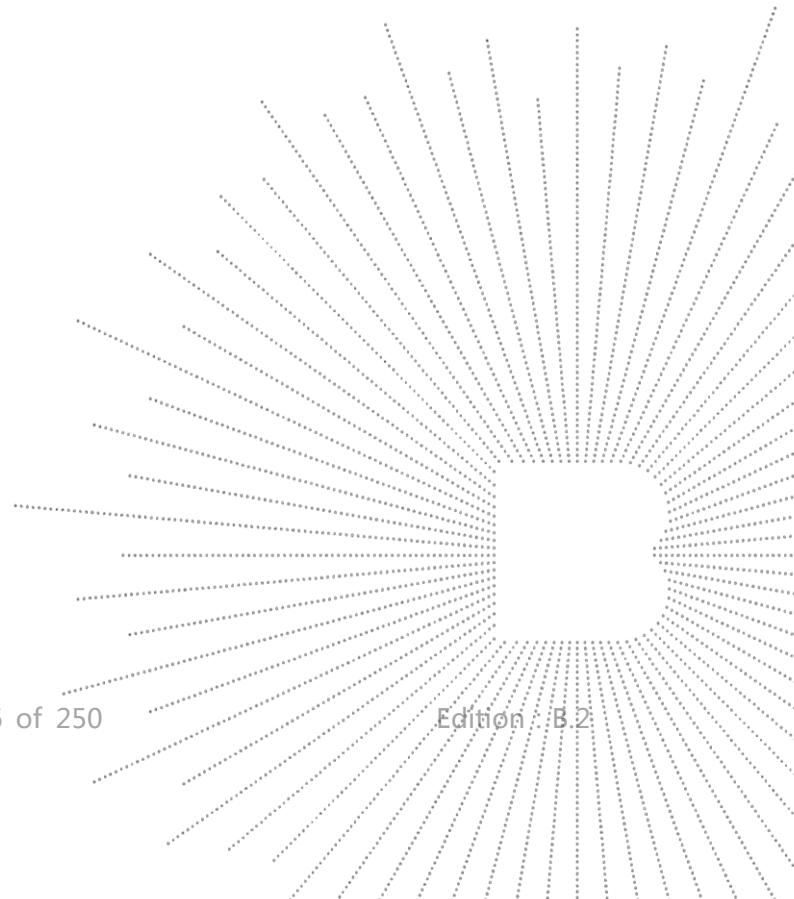
KDB 941225 D01 3G SAR Procedures: 3G SAR MEASUREMENT PROCEDURES

KDB 941225 D05 SAR for LTE Devices: SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES

KDB 941225 D06 Hotspot Mode v02r01: SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES

KDB 648474 D04 Handset SAR v01r03: SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS

CO., LTD.



3. Test Summary

The maximum results of Specific Absorption Rate (SAR) have found during testing are as follows:

Frequency Band	Report SAR1g (W/kg)			SAR1g Limit (W/kg)
	Head	Body (10mm Gap)	Hotspot (10mm Gap)	
Bluetooth	0.084	0.084		1.6
WIFI 2.4G	0.244	0.255	0.102	
WIFI 5G	0.456	0.481	0.583	
GSM	0.161	0.784	0.498	
WCDMA	0.168	0.999	0.748	
LTE	0.454	0.786	0.582	
Simultaneous Transmission	0.788	1.357	1.081	

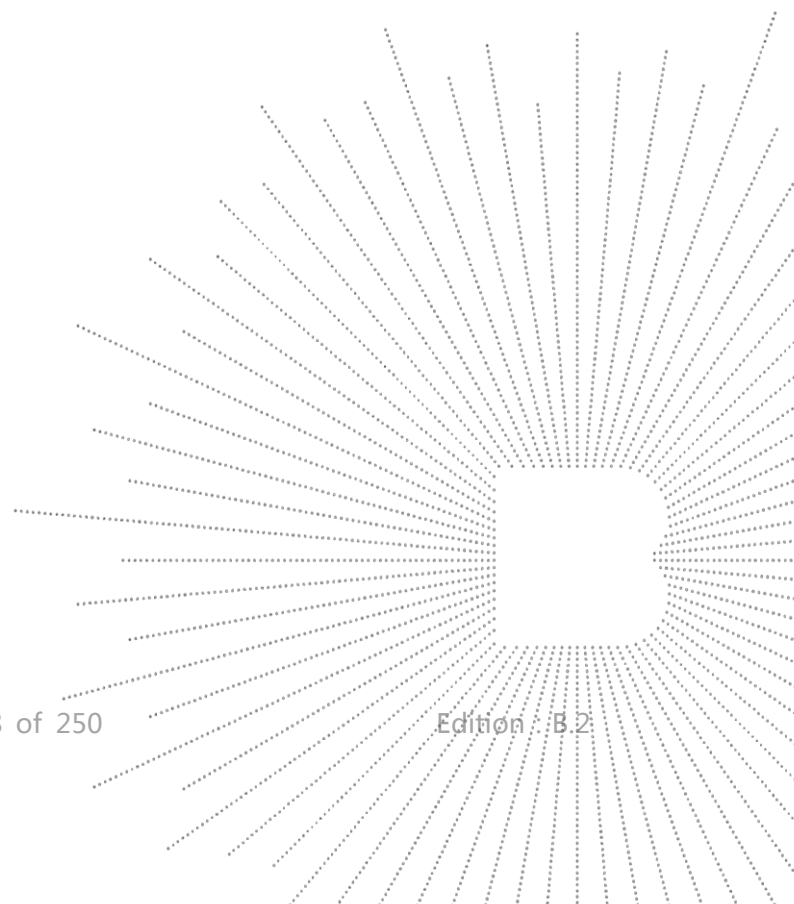
The device in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedure specified in IEEE 1528-2013.

4. SAR Limits

EXPOSURE LIMITS	FCC Limit (1g Tissue)	
	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average(averaged over the whole body)	0.08	0.4
Spatial Peak(averaged over any 1 g of tissue)	1.6	8.0
Spatial Peak(hands/wrists/ feet/anklesaveraged 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.

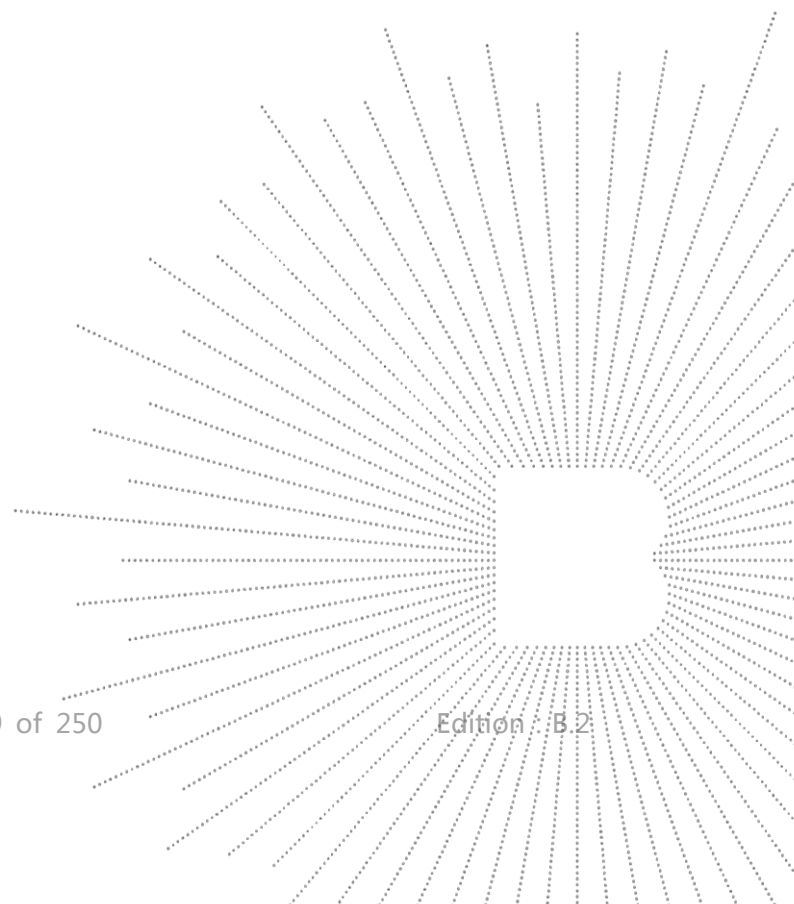
Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).



5. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k=2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.



6. Product Information and Test Setup

6.1 Product Information

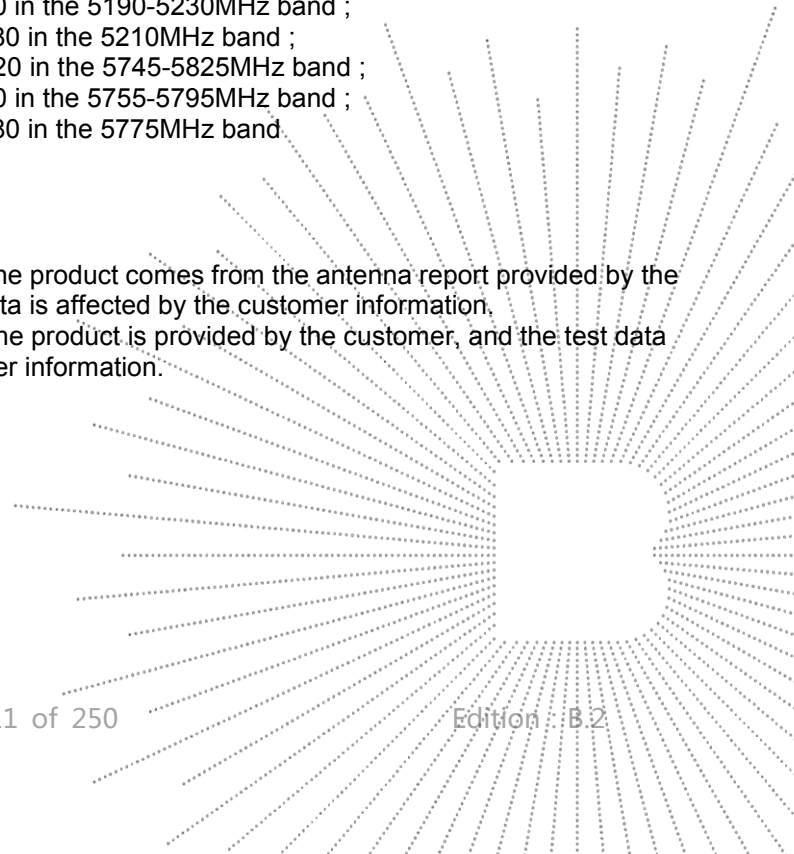
Model/Type reference:	C61 C61 E, C61 S, C61 Pro, C61 Plus, C61 Ultra, C61 GT
Model differences:	All the model are the same circuit and RF module, except model names.
Bluetooth Version:	5.0
Hardware Version:	SC6030_U_MB_V1.0.1
Software Version:	OUKITEL_C61_EEA_V03
Ratings:	DC 5V from Adapter/ DC 3.87V from battery
Adapter Information:	Model: HJ-0502000N2-US Input: 100-240V~ 50/60Hz 0.3A Output: 5.0V = 2.0A 10.0W
BDR, EDR	
Operation Frequency:	2402-2480MHz
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number Of Channel	79CH
Antenna installation:	Internal antenna
Antenna Gain:	1.03 dBi
	Remark:
	☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
BLE	
Operation Frequency:	2402-2480MHz
Type of Modulation:	GFSK
Number Of Channel	40CH
Antenna installation:	Internal antenna
Antenna Gain:	1.03 dBi
	Remark:
	☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.

WIFI 2.4G

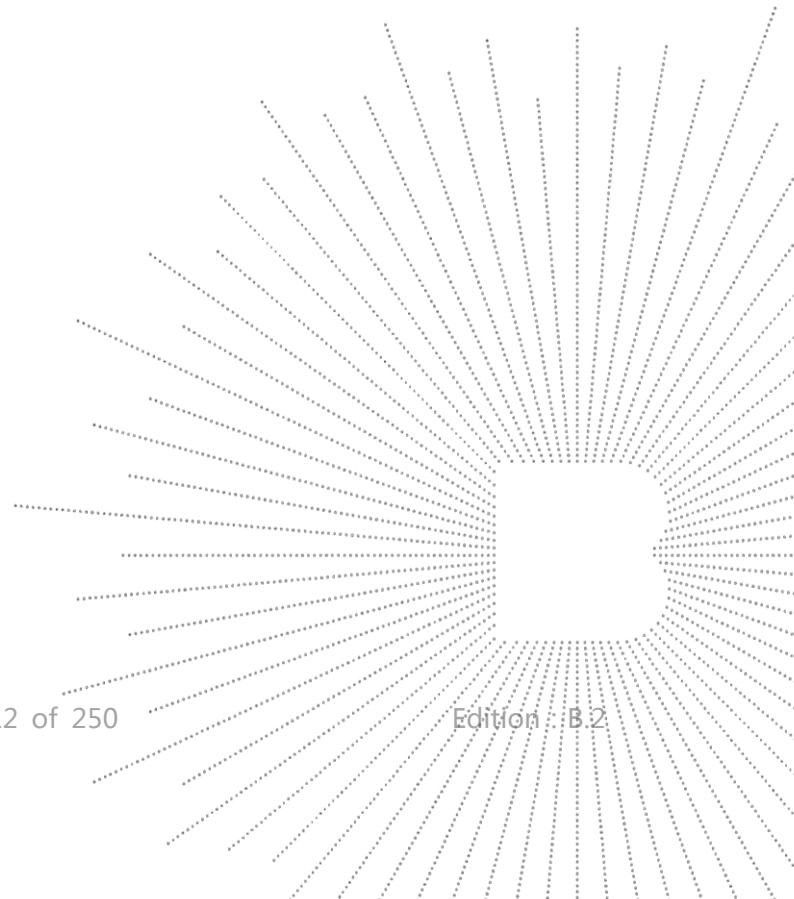
Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz
Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 150Mbps
Type of Modulation:	OFDM/DSSS
Number Of Channel	802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH
Antenna installation:	Internal antenna 1.03 dBi
Antenna Gain:	Remark: ☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.

WIFI 5G

IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80;
Operation Frequency:	5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11n(HT40); 5775MHz for 802.11 ac80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac; 4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ;
Number Of Channel	1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band.
Antenna installation:	Internal antenna 0.71 dBi
Antenna Gain:	Remark: ☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.



2G, 3G	
Operation Frequency:	GSM/GPRS/EGPRS 850: TX: 824~849MHz; RX: 869~894MHz; GSM/GPRS/EGPRS 1900: TX:1850~1910MHz; RX:1930~1990MHz; WCDMA Band II: TX: 1852.40~1907.60MHz; Rx: 1932.60~1987.40MHz; WCDMA Band IV: TX: 1712.40~1752.60MHz; RX: 2112.60 – 2452.40MHz WCDMA Band V: TX: 826.40~846.60MHz; RX: 871.40~ 891.60MHz;
GPRS Class:	Class 12
Max RF Output Power:	GSM/GPRS/EGPRS 850: 34.74 dBm, GSM/GPRS/EGPRS 1900: 32.42 dBm WCDMA Band II: 25.25 dBm WCDMA Band IV: 25.44 dBm WCDMA Band V: 24.59 dBm
Type of Modulation:	GSM with GMSK Modulation WCDMA Mode with BPSK Modulation HSDPA Mode with QPSK, 16QAM Modulation HSUPA Mode with QPSK, 16QAM Modulation
Type of Emission:	GSM/GPRS 850: 249KGXW EGPRS 850:250KG7W GSM/GPRS 1900: 250KGXW EGPRS 1900:247KG7W WCDMA Band II: 4M17F9W WCDMA Band IV: 4M17F9W WCDMA Band V: 4M16F9W
Antenna installation:	Internal antenna
Antenna Gain:	GSM850: -3.17 dBi GSM1900: 2.09 dBi WCDMA Band II: 2.09 dBi WCDMA Band IV: 1.09 dBi WCDMA Band V: -3.17 dBi Remark: ☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.



4G

Tx Frequency:	LTE Band 2: 1850 MHz ~ 1910 MHz
	LTE Band 4: 1710 MHz ~ 1755 MHz
	LTE Band 5: 824 MHz ~ 849 MHz
	LTE Band 7: 2500MHz-2570MHz
	LTE Band 12: 699 MHz ~ 716 MHz
	LTE Band 17: 704MHz ~ 716MHz
	LTE Band 25: 1850MHz~1915MHz
	LTE Band 26: 814MHz ~ 824MHz
	824MHz ~ 849MHz
	LTE Band 66: 1710MHz ~ 1780MHz
Rx Frequency:	LTE Band 2: 1930 MHz ~ 1990 MHz
	LTE Band 4: 2110 MHz ~ 2155 MHz
	LTE Band 5: 869 MHz ~ 894 MHz
	LTE Band 7: 2620MHz ~ 2690MHz
	LTE Band 12: 729 MHz ~ 746 MHz
	LTE Band 17: 734MHz ~ 746MHz
	LTE Band 25: 1930MHz~1995MHz
	LTE Band 26: 859MHz ~ 869MHz
	869MHz ~ 894MHz
	LTE Band 66: 2110MHz ~ 2200MHz
Bandwidth:	LTE Band 2: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz
	LTE Band 4: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz
	LTE Band 5: 1.4MHz /3MHz /5MHz /10MHz
	LTE Band 7: 5MHz /10MHz /15MHz /20MHz
	LTE Band 12: 1.4MHz /3MHz /5MHz /10MHz
	LTE Band 17: 5MHz /10MHz
	LTE Band 25: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz
	LTE Band 26: 1.4MHz /3MHz /5MHz /10MHz
	1.4MHz /3MHz /5MHz /10MHz /15MHz
	LTE Band 66: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz
The Max RF Output Power (EIRP/ERP)	LTE Band 2: 28.25 dBm
	LTE Band 4: 27.26 dBm
	LTE Band 5: 19.71 dBm
	LTE Band 7: 27.45 dBm
	LTE Band 12: 17.65 dBm
	LTE Band 17: 17.48 dBm
	LTE Band 25: 28.22 dBm
	LTE Band 26: 20.47 dBm
	20.73 dBm
	LTE Band 66: 27.36 dBm
99% Occupied Bandwidth:	LTE Band 2: 18M1W7D
	LTE Band 4: 18M0W7D
	LTE Band 5: 9M09G7D
	LTE Band 7: 18M0W7D
	LTE Band 12: 9M02W7D
	LTE Band 17: 8M99W7D
	LTE Band 25: 18M1W7D
	LTE Band 26: 8M98G7D
	13M5G7D
	LTE Band 66: 18M1G7D
Type of Modulation:	QPSK/16QAM
Antenna Type:	Internal Antenna
Antenna Gain:	LTE Band 2: 2.09 dBi
	LTE Band 4: 1.09 dBi
	LTE Band 5: -3.17 dBi

LTE Band 7: 2.41 dBi
 LTE Band 12: -4.94 dBi
 LTE Band 17: -4.94 dBi
 LTE Band 25: 2.09 dBi
 LTE Band 26: -3.17 dBi
 LTE Band 66: 1.09 dBi

Remark:

- ☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information.
☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.

6.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

6.3 Support Equipment

Cable of Product

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1	--	--	Applicant	---	Yes/No	--
2	--	--	BCTC	--	Yes/No	--

No.	Device Type	Brand	Model	Series No.	Note
1.	---	---	---	---	---
2.	--	--	--	--	--

Notes:

- All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6.4 Test Environment

1. Normal Test Conditions:

Humidity(%):	35-75
Atmospheric Pressure(kPa):	95-105
Temperature(°C):	18-25

2. Extreme Test Conditions:

N/A

7. Test Facility and Test Instrument Used

7.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850
A2LA certificate registration number is: CN1212
ISED Registered No.: 23583
ISED CAB identifier: CN0017

7.2 Test Instrument Used

Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
PC	DELL	\	\	N/A	N/A
SAR Measurement system	SATIMO	\	\	N/A	N/A
Signal Generator	Keysight	83711B	US37100131	May 16, 2024	May 15, 2025
Multimeter	Keithley	1160271	\	Nov. 10, 2024	Nov 09, 2025
S-parameter Network Analyzer	R&S	ZVB 8	101353	Dec. 07, 2024	Dec. 06, 2025
Communication test set	R&S	CMW500	126173	May 16, 2024	May 15, 2025
E SAR PROBE 6GHz	MVG	SSE2	2623-EPGO-420	July 18, 2024	July 17, 2025
DIPOLE 750	SATIMO	SID 750	SN 47/21 DIP 0G750-620	Nov. 25, 2024	Nov. 24, 2027
DIPOLE 835	SATIMO	SID 835	SN 47/21 DIP 0G835-621	Nov. 25, 2024	Nov. 24, 2027
DIPOLE 1800	SATIMO	SID 1800	SN 47/21 DIP 1G800-623	Nov. 25, 2024	Nov. 24, 2027
DIPOLE 1900	SATIMO	SID 1900	SN 47/21 DIP 1G900-624	Nov. 25, 2024	Nov. 24, 2027
DIPOLE 2450	SATIMO	SID 2450	SN 47/21 DIP 2G450-627	Nov. 25, 2024	Nov. 24, 2027
DIPOLE 2600	SATIMO	SID 2600	SN 47/21 DIP 2G600-628	Nov. 25, 2024	Nov. 24, 2027
DIPOLE 5000	SATIMO	SID 5000	SN 47/21 DIP 5G000-629	Nov. 25, 2024	Nov. 24, 2027
COMOSAR OPENCoaxial Probe	SATIMO	\	\	Nov. 18, 2024	Nov. 17, 2025
SAR Locator	SATIMO	\	\	Nov. 18, 2024	Nov. 17, 2025
Communication Antenna	SATIMO	\	\	Nov. 18, 2024	Nov. 17, 2025
FEATURE PHONEPOSITIONING DEVICE	SATIMO	\	\	N/A	N/A
DUMMY PROBE	SATIMO	\	\	N/A	N/A
SAM Phantom	MVG	\	SN 13/09 SAM68	N/A	N/A
Liquid measurement Kit	HP	85033D	3423A08186	N/A	N/A
Power meter	Keysight	E4419	A00065	May 16, 2024	May 15, 2025
Power sensor	Keysight	E9300A	US39211659	May 16, 2024	May 15, 2025
Power sensor	Keysight	E9300A	US39211305	May 16, 2024	May 15, 2025
Directional Coupler	Krytar 158020	131467	\	Nov. 10, 2024	Nov 09, 2025
Thermometer	BTE	\	\	Dec. 02, 2024	Dec. 01, 2025
Broad Band Tissue Simulation Liquid	Schmid	\	\	N/A	N/A

Note:

Per KDB865664D01 requirements for dipole calibration, the test laboratory has adopted three year extended calibration interval. Each measured dipole is expected to evaluate with following criteria at least on annual interval.

1. There is no physical damage on the dipole;
2. System check with specific dipole is within 10% of calibrated values;
3. The most recent return-loss results, measured at least annually, deviates by no more than 20% from the previous measurement;
4. The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within 5Ω from the previous measurement.

8. Specific Absorption Rate (SAR)

8.1 Introduction

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

8.2 SAR Definition

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

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

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

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the

electrical field in the tissue by

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

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

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

9. SAR Measurement System

9.1 The Measurement System

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

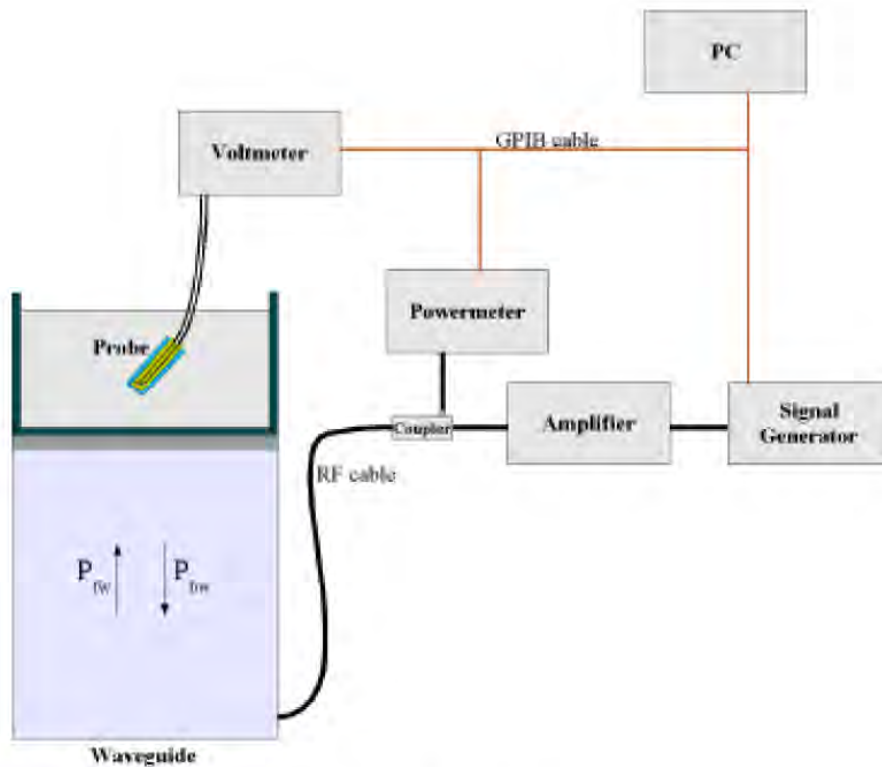
9.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 46/21 EPGO362 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 5 mm
- Distance between probe tip and sensor center: 2.10mm
- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)
- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.50 dB
- Calibration range: 835 to 2500MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and surface normal line: less than 30°

Probe calibration is realized, in compliance with EN 62209-1 and IEEE 1528 STD, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1 annex technique using reference guide at the five frequencies.



$$SAR = \frac{4(p_{fw} - p_{pbw})}{ab\delta} \cos^2 \left(\pi \frac{y}{a} \right) c^{(2\pi/\delta)}$$

Where :

Pfw = Forward Power

Pbw = Backward Power

a and b = Waveguide dimensions

l = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N) = SAR(N)/Vlin(N). (N=1,2,3)$$

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

$$Vlin(N) = V(N) * (1 + V(N)/DCP(N)) \quad (N=1,2,3)$$

where DCP is the diode compression point in mV.

9.3 Probe Calibration Process

Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an with CALISAR, Antenna proprietary calibration system.

Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1mW/cm².

Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

Where:

$$SAR = C \frac{\Delta T}{\Delta t}$$

Δt = exposure time (30 seconds),

C = heat capacity of tissue (brain or muscle),

ΔT = temperature increase due to RF exposure.

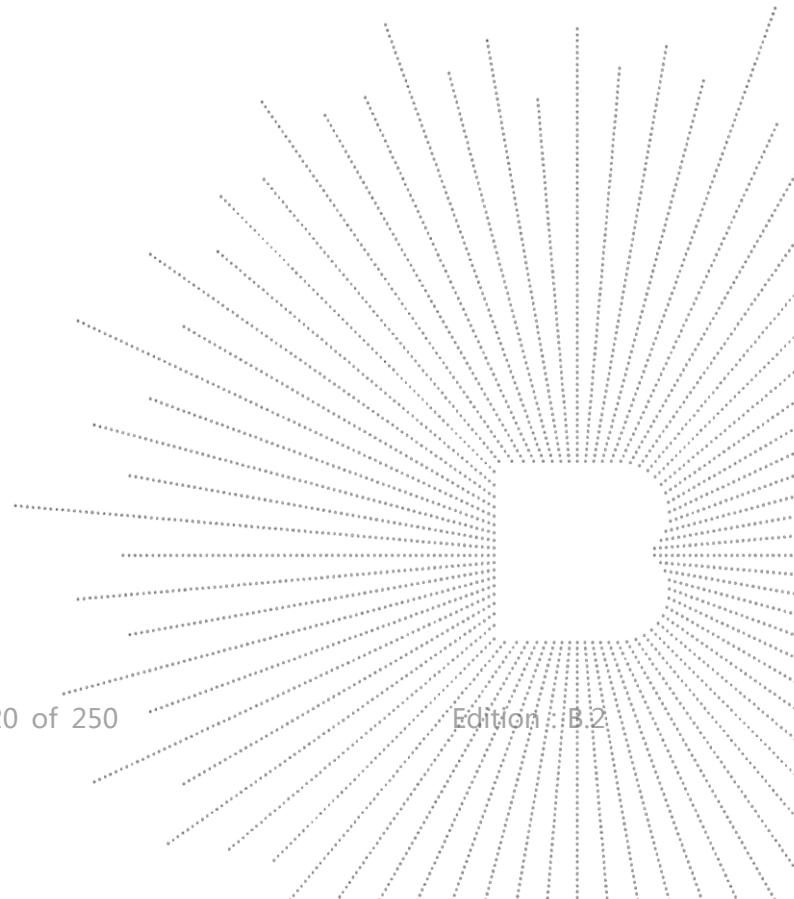
SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

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

Where:

σ = simulated tissue conductivity,

ρ = Tissue density (1.25 g/cm³ for brain tissue)

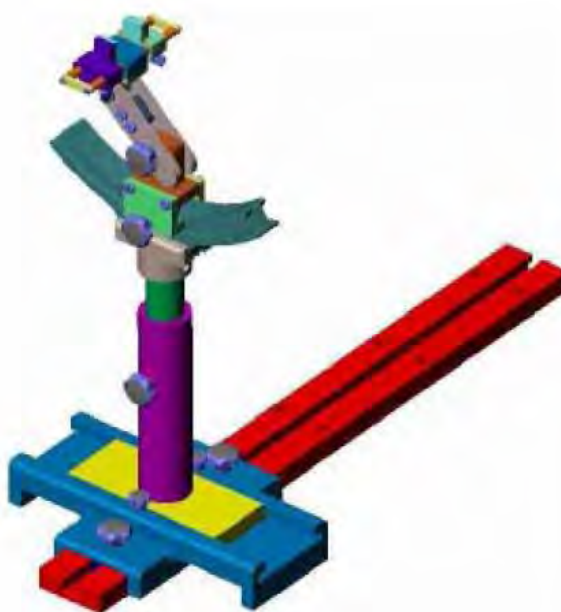


9.4 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

9.5 Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

10. Tissue Simulating Liquids

10.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



Liquid Height for Body SAR

The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	1,2-Propane diol (%)	HEC (%)	Preventol (%)	DGBE (%)
Head/Body						
835	40.3	1.4	57.9	0.2	0.2	0
900	40.3	1.4	57.9	0.2	0.2	0
1800-2000	55.2	0.3	0	0	0	44.5
2450	55.0	0.1	0	0	0	44.9
2600	54.9	0.1	0	0	0	45.0

Frequency (MHz)	Water (%)	Hexyl Carbitol (%)	Triton X-100 (%)
Head/Body			
5000-6000	65.52	17.24	17.24

10.2 Limit

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters

computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Target Frequency (MHz)	Head	
	Conductivity (σ)	Permittivity (ϵ_r)
150	0.76	52.3
300	0.87	45.3
450	0.87	43.5
750	0.89	41.9
835	0.90	41.5
900	0.97	41.5
915	0.98	41.5
1450	1.20	40.5
1610	1.29	40.3
1800-2000	1.40	40.0
2450	1.80	39.2
2600	1.96	39.0
3000	2.40	38.5
5200	4.66	36.0
5400	4.86	35.8
5600	5.07	35.5
5800	5.27	35.3

10.3 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an R&S ZVB 8. Dielectric Probe Kit and an Agilent Network Analyzer.

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

Frequency (MHz)	Liquid	Target (σ)	Target (ϵ_r)	Measured (σ)	Measured (ϵ_r)	Delta (σ)%	Delta (ϵ_r)%	Limit (%)	Temp . TSL (°C)	Date
750	Head	0.89	41.90	0.887	40.365	-0.34	-3.66	±5	23.2	26/2/2025
835	Head	0.90	41.50	0.883	39.855	-1.89	-3.96	±5	23.4	27/2/2025
1800	Head	1.40	40.00	1.385	39.836	-1.07	-0.41	±5	23.2	28/2/2025
1900	Head	1.40	40.00	1.425	38.688	1.79	-3.28	±5	23.9	3/3/2025
2450	Head	1.80	39.20	1.791	37.825	-0.50	-3.51	±5	22.9	10/3/2025
2600	Head	1.96	39.00	1.891	40.194	-3.52	3.06	±5	23.2	26/2/2025
5200	Head	4.66	36.00	4.568	35.806	-1.97	-0.54	±5	22.9	10/3/2025
5800	Head	5.27	35.30	5.329	34.697	1.12	-1.71	±5	22.9	10/3/2025

Remark:

1. The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized.
2. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

CO. LTD

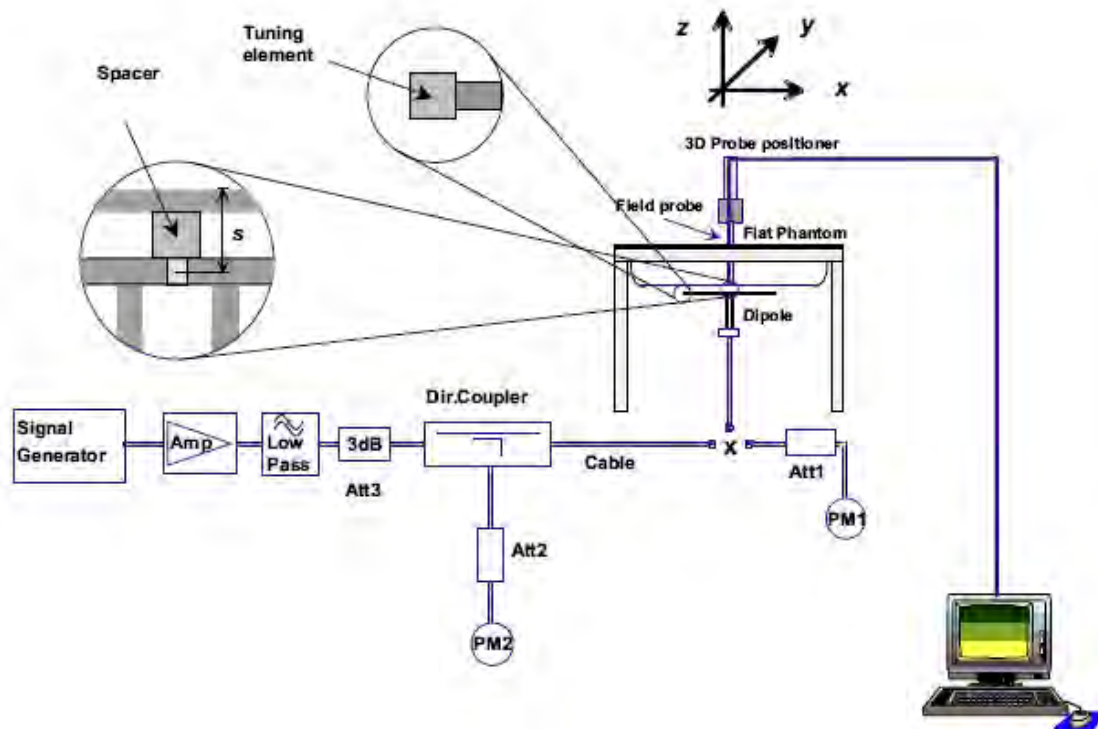
11. System Check

11.1 Purpose of System Performance Check

At the device test frequencies. System check verifies the measurement repeatability of a SAR system before compliance testing and is not a validation of all system specifications. The latter is not required for testing a device but is mandatory before the system is deployed. The system check detects possible short-term drift and unacceptable measurement errors or uncertainties in the system.

11.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 600MHz-6000MHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The output power on dipole port must be calibrated to 20 dBm (100 mW) before dipole is connected.



System Verification Setup Block Diagram



Setup Photo of Dipole Antenna

11.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. The following table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

Frequency (MHz)	Power	Measured SAR _{1g} (W/Kg)	Normalize to 1 Watt	Drift (%)	1W Target	Difference Percentage (%)	Limit (%)	Liquid Temp	Date
					SAR _{1g} (W/Kg)				
750	250 mW	2.152	8.607	0.632	8.58	0.315	±10	23.4	26/2/2025
835	250 mW	2.543	10.171	3.040	10.01	1.608	±10	23.3	27/2/2025
1800	250 mW	9.675	38.699	-0.455	39.74	-2.620	±10	23.0	28/2/2025
1900	250 mW	10.321	41.284	0.282	41.26	0.058	±10	23.5	3/3/2025
2450	250 mW	14.432	57.727	-2.271	55.16	4.654	±10	23.1	10/3/2025
2600	250 mW	14.685	58.741	-0.617	56.50	3.966	±10	23.4	26/2/2025
5200	250 mW	18.555	74.221	2.472	76.41	-2.865	±10	23.1	10/3/2025
5800	250 mW	19.140	76.559	3.193	76.49	0.090	±10	23.1	10/3/2025

12. EUT Testing Position

12.1 Define Two Imaginary Lines on the Handset

(a) The vertical centerline passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.

(b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

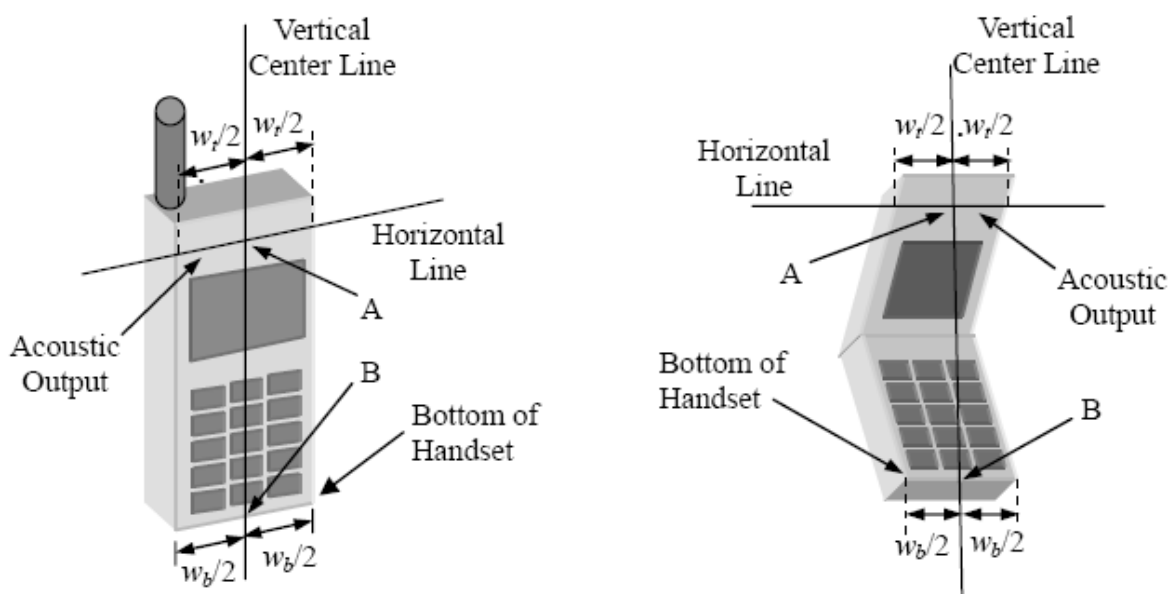


Illustration for Handset Vertical and Horizontal Reference Lines

12.2 Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see below).

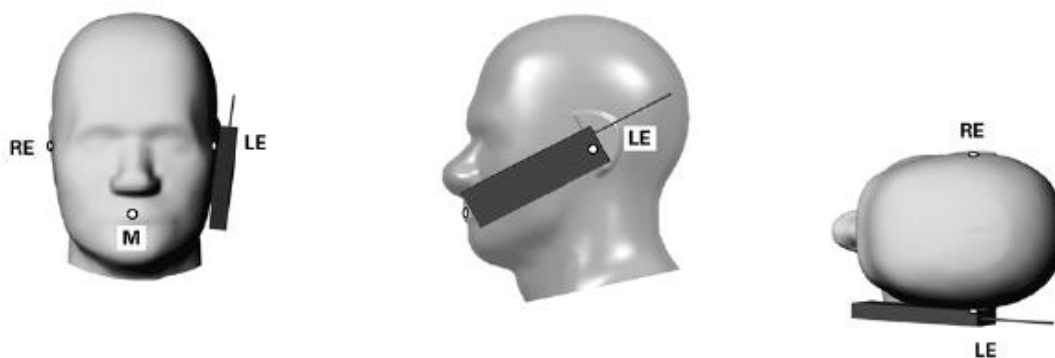


Illustration for Cheek Position

12.3 Tilted Position

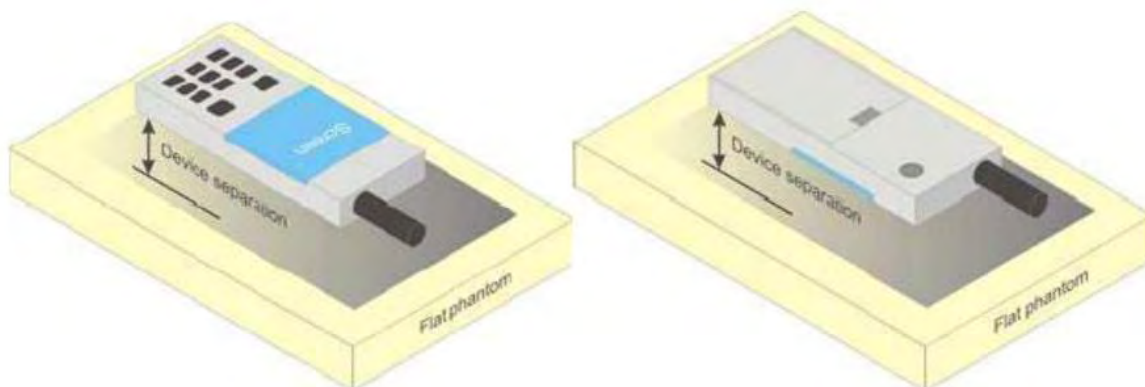
- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see below).



Illustration for Tilted Position

12.4 Body Position

A typical example of a body-worn device is a Mobile Phone , wireless enabled PDA or other battery operated wireless device with the ability to transmit while mounted on a person's body using a carry accessory approved by the wireless device manufacturer.



Test positions for body-worn devices

13. SAR Measurement Procedures

13.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex D demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

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

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

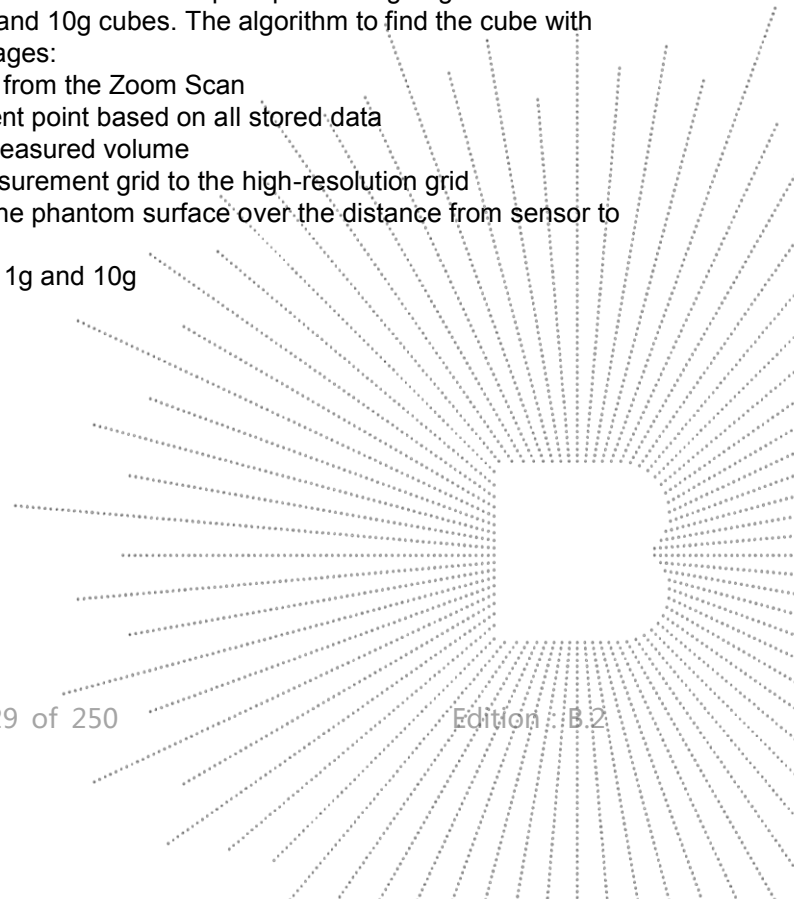
13.2 Spatial Peak SAR Evaluation

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

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

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

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



13.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 mm $\pm$ 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm $\pm$ 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° $\pm$ 1°	20° $\pm$ 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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
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 1 st 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 <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> 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.				

13.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

13.5 SAR Averaged Methods

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10g and 1 g requires a very fine resolution in the three dimensional scanned data array.

13.6 Power Drift Monitoring

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

14. SAR Test Result

14.1 Conducted RF Output Power

BDR, EDR			
Mode	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
1-DH1	2402	1.30	2.0
1-DH1	2441	1.77	
1-DH1	2480	0.14	
2-DH1	2402	1.68	2.5
2-DH1	2441	2.30	
2-DH1	2480	0.30	
3-DH1	2402	1.79	3.0
3-DH1	2441	2.63	
3-DH1	2480	0.62	

BLE			
Mode	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
BLE 1M	2402	0.89	1.5
BLE 1M	2440	1.23	
BLE 1M	2480	-0.38	
BLE 2M	2402	0.63	1.0
BLE 2M	2440	0.98	
BLE 2M	2480	-0.61	

Note:

Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Turn up Power (dBm)	Turn up Power (mW)	Separation Distance (mm)	Frequency (GHz)	Result	Exclusion Thresholds
3.0	2.00	5	2.48	0.63	3.0

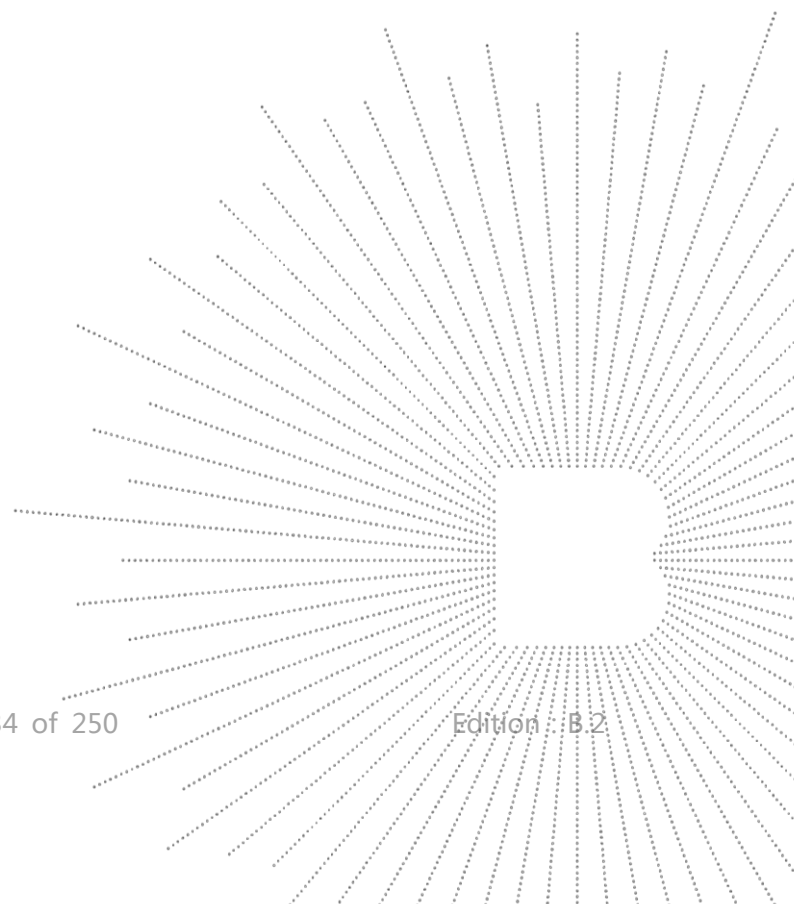
Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm; a distance of 5 mm is applied to determine SAR test exclusion.

According to the calculation results in the table above, Bluetooth SAR does not need to be tested.

WIFI 2.4G			
Mode	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
b	2412	10.69	14.0
b	2437	13.83	
b	2462	9.86	
g	2412	9.18	12.5
g	2437	12.22	
g	2462	8.48	
n20	2412	8.26	11.5
n20	2437	11.09	
n20	2462	7.23	
n40	2422	7.53	9.5
n40	2437	9.27	
n40	2452	6.15	

WIFI 5.1G			
Mode	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
a	5180	12.87	14.0
a	5200	13.89	
a	5240	12.97	
n20	5180	12.76	13.0
n20	5200	12.26	
n20	5240	11.66	
n40	5190	11.80	12.0
n40	5230	11.05	
ac20	5180	12.70	13.0
ac20	5200	12.70	
ac20	5240	12.07	
ac40	5190	11.89	12.0
ac40	5230	10.98	
ac80	5210	9.68	10.0

WIFI 5.8G			
Mode	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
a	5745	11.89	12.0
a	5785	11.92	
a	5825	11.75	
n20	5745	11.06	11.5
n20	5785	10.95	
n20	5825	10.82	
n40	5755	10.28	10.5
n40	5795	9.96	
ac20	5745	11.10	11.5
ac20	5785	10.93	
ac20	5825	10.73	
ac40	5755	10.02	10.5
ac40	5795	9.97	
ac80	5775	8.00	8.5



GSM - Burst Average Power (dBm)								
Band	GSM850				GSM1900			
Channel	128	190	251	Tune-up	512	661	810	Tune-up
Frequency (MHz)	824.2	836.6	848.8		1850.2	1880	1909.8	
GSM	34.49	34.60	34.61	35.0	32.03	32.35	32.42	32.5
GPRS slots-1	34.60	34.74	34.73	35.0	31.99	32.29	32.28	32.5
GPRS slots-2	31.99	31.72	31.80	32.0	29.20	29.20	29.06	29.5
GPRS slots-3	30.09	29.77	29.85	30.5	27.48	27.52	27.27	28.0
GPRS slots-4	27.96	27.62	27.71	28.0	25.31	25.36	25.18	25.5
EGPRS slots-1	34.54	34.69	34.68	35.0	27.40	27.88	27.65	28.0
EGPRS slots-2	31.98	31.74	31.85	32.0	26.53	26.50	26.57	27.0
EGPRS slots-3	30.14	29.84	29.89	30.5	23.97	24.15	23.93	24.5
EGPRS slots-4	28.02	27.78	27.86	28.5	21.79	22.39	21.75	22.5

GSM - Source-Based Time-Average Power (dBm)						
Band	GSM850			GSM1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM	25.49	25.60	25.61	23.03	23.35	23.42
GPRS slots-1	25.60	25.74	25.73	22.99	23.29	23.28
GPRS slots-2	25.99	25.72	25.80	23.20	23.20	23.06
GPRS slots-3	25.84	25.52	25.60	23.23	23.27	23.02
GPRS slots-4	24.96	24.62	24.71	22.31	22.36	22.18
EGPRS slots-1	25.54	25.69	25.68	18.40	18.88	18.65
EGPRS slots-2	25.98	25.74	25.85	20.53	20.50	20.57
EGPRS slots-3	25.89	25.59	25.64	19.72	19.90	19.68
EGPRS slots-4	25.02	24.78	24.86	18.79	19.39	18.75

Notes:

Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.00dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.00dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.00dB

Band	WCDMA Band II				WCDMA Band IV			
Channel	9262	9400	9538	Tune-up	1312	1450	1513	Tune-up
Frequency (MHz)	1852.4	1880.0	1907.6		1712.4	1740	1752.6	
RMC 12.2K	25.00	25.24	25.25	25.5	25.08	25.21	25.44	25.5
HSDPA Subtest-1	25.12	25.02	25.20	25.5	24.87	24.99	25.17	25.5
HSDPA Subtest-2	24.85	24.64	24.91		24.64	24.51	25.02	
HSDPA Subtest-3	24.60	24.36	24.43		24.34	24.27	24.31	
HSDPA Subtest-4	24.42	24.30	24.48		23.94	24.37	24.35	
HSUPA Subtest-1	25.09	24.72	24.93	25.5	24.67	24.70	25.01	25.5
HSUPA Subtest-2	25.06	24.99	25.13		24.77	24.97	25.23	
HSUPA Subtest-3	24.83	24.60	24.73		24.17	24.57	24.95	
HSUPA Subtest-4	25.03	25.00	25.23		24.81	25.01	25.23	
HSUPA Subtest-5	24.50	24.47	24.77		24.42	24.80	24.83	

Band	WCDMA Band V							
Channel	4132	4182	4233	Tune-up				
Frequency (MHz)	826.4	836.4	846.6					
RMC 12.2K	24.25	24.37	24.17	24.5				
HSDPA Subtest-1	24.18	24.59	24.31	25.0				
HSDPA Subtest-2	23.89	24.45	23.97					
HSDPA Subtest-3	23.61	24.09	23.92					
HSDPA Subtest-4	22.96	23.68	23.64					
HSUPA Subtest-1	24.01	24.27	24.14	24.5				
HSUPA Subtest-2	24.05	24.56	24.28					
HSUPA Subtest-3	23.58	24.11	23.83					
HSUPA Subtest-4	24.04	24.58	24.29					
HSUPA Subtest-5	23.59	24.57	23.93					

Note:

1. Per KDB 941225 D01 v03, the 12.2kbps RMC mode was selected for SAR testing (the primary mode).
2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	25.54	2.09	27.63	PASS
Band2	1.4	18607	1	#Mid	QPSK	25.58	2.09	27.67	PASS
Band2	1.4	18607	1	#Max	QPSK	25.57	2.09	27.66	PASS
Band2	1.4	18607	3	#0	QPSK	25.53	2.09	27.62	PASS
Band2	1.4	18607	3	#Mid	QPSK	25.59	2.09	27.68	PASS
Band2	1.4	18607	3	#Max	QPSK	25.51	2.09	27.60	PASS
Band2	1.4	18607	6	#0	QPSK	24.65	2.09	26.74	PASS
Band2	1.4	18607	1	#0	16QAM	24.79	2.09	26.88	PASS
Band2	1.4	18607	1	#Mid	16QAM	24.80	2.09	26.89	PASS
Band2	1.4	18607	1	#Max	16QAM	24.84	2.09	26.93	PASS
Band2	1.4	18607	3	#0	16QAM	24.94	2.09	27.03	PASS
Band2	1.4	18607	3	#Mid	16QAM	24.90	2.09	26.99	PASS
Band2	1.4	18607	3	#Max	16QAM	24.88	2.09	26.97	PASS
Band2	1.4	18607	6	#0	16QAM	23.72	2.09	25.81	PASS
Band2	1.4	18900	1	#0	QPSK	26.07	2.09	28.16	PASS
Band2	1.4	18900	1	#Mid	QPSK	26.13	2.09	28.22	PASS
Band2	1.4	18900	1	#Max	QPSK	26.16	2.09	28.25	PASS
Band2	1.4	18900	3	#0	QPSK	25.94	2.09	28.03	PASS
Band2	1.4	18900	3	#Mid	QPSK	25.84	2.09	27.93	PASS
Band2	1.4	18900	3	#Max	QPSK	25.94	2.09	28.03	PASS
Band2	1.4	18900	6	#0	QPSK	24.99	2.09	27.08	PASS
Band2	1.4	18900	1	#0	16QAM	25.10	2.09	27.19	PASS
Band2	1.4	18900	1	#Mid	16QAM	25.05	2.09	27.14	PASS
Band2	1.4	18900	1	#Max	16QAM	25.12	2.09	27.21	PASS
Band2	1.4	18900	3	#0	16QAM	25.01	2.09	27.10	PASS
Band2	1.4	18900	3	#Mid	16QAM	24.94	2.09	27.03	PASS
Band2	1.4	18900	3	#Max	16QAM	24.96	2.09	27.05	PASS
Band2	1.4	18900	6	#0	16QAM	23.85	2.09	25.94	PASS
Band2	1.4	19193	1	#0	QPSK	26.03	2.09	28.12	PASS
Band2	1.4	19193	1	#Mid	QPSK	26.05	2.09	28.14	PASS
Band2	1.4	19193	1	#Max	QPSK	26.03	2.09	28.12	PASS
Band2	1.4	19193	3	#0	QPSK	26.05	2.09	28.14	PASS
Band2	1.4	19193	3	#Mid	QPSK	26.05	2.09	28.14	PASS
Band2	1.4	19193	3	#Max	QPSK	26.06	2.09	28.15	PASS
Band2	1.4	19193	6	#0	QPSK	24.96	2.09	27.05	PASS
Band2	1.4	19193	1	#0	16QAM	25.08	2.09	27.17	PASS
Band2	1.4	19193	1	#Mid	16QAM	25.11	2.09	27.20	PASS
Band2	1.4	19193	1	#Max	16QAM	25.15	2.09	27.24	PASS
Band2	1.4	19193	3	#0	16QAM	24.99	2.09	27.08	PASS
Band2	1.4	19193	3	#Mid	16QAM	24.99	2.09	27.08	PASS
Band2	1.4	19193	3	#Max	16QAM	25.05	2.09	27.14	PASS
Band2	1.4	19193	6	#0	16QAM	24.24	2.09	26.33	PASS
Band2	3	18615	1	#0	QPSK	25.53	2.09	27.62	PASS
Band2	3	18615	1	#Mid	QPSK	25.57	2.09	27.66	PASS
Band2	3	18615	1	#Max	QPSK	25.47	2.09	27.56	PASS
Band2	3	18615	8	#0	QPSK	24.51	2.09	26.60	PASS
Band2	3	18615	8	#Mid	QPSK	24.47	2.09	26.56	PASS
Band2	3	18615	8	#Max	QPSK	24.48	2.09	26.57	PASS
Band2	3	18615	15	#0	QPSK	24.54	2.09	26.63	PASS
Band2	3	18615	1	#0	16QAM	25.69	2.09	27.78	PASS
Band2	3	18615	1	#Mid	16QAM	25.67	2.09	27.76	PASS
Band2	3	18615	1	#Max	16QAM	25.59	2.09	27.68	PASS
Band2	3	18615	8	#0	16QAM	23.47	2.09	25.56	PASS
Band2	3	18615	8	#Mid	16QAM	23.47	2.09	25.56	PASS

Band2	3	18615	8	#Max	16QAM	23.44	2.09	25.53	PASS
Band2	3	18615	15	#0	16QAM	23.67	2.09	25.76	PASS
Band2	3	18900	1	#0	QPSK	25.77	2.09	27.86	PASS
Band2	3	18900	1	#Mid	QPSK	25.88	2.09	27.97	PASS
Band2	3	18900	1	#Max	QPSK	25.84	2.09	27.93	PASS
Band2	3	18900	8	#0	QPSK	24.83	2.09	26.92	PASS
Band2	3	18900	8	#Mid	QPSK	24.87	2.09	26.96	PASS
Band2	3	18900	8	#Max	QPSK	24.83	2.09	26.92	PASS
Band2	3	18900	15	#0	QPSK	24.85	2.09	26.94	PASS
Band2	3	18900	1	#0	16QAM	24.41	2.09	26.50	PASS
Band2	3	18900	1	#Mid	16QAM	24.39	2.09	26.48	PASS
Band2	3	18900	1	#Max	16QAM	24.41	2.09	26.50	PASS
Band2	3	18900	8	#0	16QAM	24.00	2.09	26.09	PASS
Band2	3	18900	8	#Mid	16QAM	23.91	2.09	26.00	PASS
Band2	3	18900	8	#Max	16QAM	23.87	2.09	25.96	PASS
Band2	3	18900	15	#0	16QAM	23.97	2.09	26.06	PASS
Band2	3	19185	1	#0	QPSK	26.16	2.09	28.25	PASS
Band2	3	19185	1	#Mid	QPSK	26.06	2.09	28.15	PASS
Band2	3	19185	1	#Max	QPSK	26.09	2.09	28.18	PASS
Band2	3	19185	8	#0	QPSK	25.02	2.09	27.11	PASS
Band2	3	19185	8	#Mid	QPSK	24.99	2.09	27.08	PASS
Band2	3	19185	8	#Max	QPSK	25.06	2.09	27.15	PASS
Band2	3	19185	15	#0	QPSK	24.96	2.09	27.05	PASS
Band2	3	19185	1	#0	16QAM	24.96	2.09	27.05	PASS
Band2	3	19185	1	#Mid	16QAM	24.95	2.09	27.04	PASS
Band2	3	19185	1	#Max	16QAM	25.02	2.09	27.11	PASS
Band2	3	19185	8	#0	16QAM	24.03	2.09	26.12	PASS
Band2	3	19185	8	#Mid	16QAM	24.09	2.09	26.18	PASS
Band2	3	19185	8	#Max	16QAM	24.06	2.09	26.15	PASS
Band2	3	19185	15	#0	16QAM	24.20	2.09	26.29	PASS
Band2	5	18625	1	#0	QPSK	25.51	2.09	27.60	PASS
Band2	5	18625	1	#Mid	QPSK	26.05	2.09	28.14	PASS
Band2	5	18625	1	#Max	QPSK	26.06	2.09	28.15	PASS
Band2	5	18625	12	#0	QPSK	24.57	2.09	26.66	PASS
Band2	5	18625	12	#Mid	QPSK	24.49	2.09	26.58	PASS
Band2	5	18625	12	#Max	QPSK	24.54	2.09	26.63	PASS
Band2	5	18625	25	#0	QPSK	24.48	2.09	26.57	PASS
Band2	5	18625	1	#0	16QAM	26.05	2.09	28.14	PASS
Band2	5	18625	1	#Mid	16QAM	24.56	2.09	26.65	PASS
Band2	5	18625	1	#Max	16QAM	26.05	2.09	28.14	PASS
Band2	5	18625	12	#0	16QAM	23.49	2.09	25.58	PASS
Band2	5	18625	12	#Mid	16QAM	23.48	2.09	25.57	PASS
Band2	5	18625	12	#Max	16QAM	23.51	2.09	25.60	PASS
Band2	5	18625	25	#0	16QAM	23.71	2.09	25.80	PASS
Band2	5	18900	1	#0	QPSK	26.04	2.09	28.13	PASS
Band2	5	18900	1	#Mid	QPSK	26.05	2.09	28.14	PASS
Band2	5	18900	1	#Max	QPSK	26.03	2.09	28.12	PASS
Band2	5	18900	12	#0	QPSK	24.90	2.09	26.99	PASS
Band2	5	18900	12	#Mid	QPSK	24.91	2.09	27.00	PASS
Band2	5	18900	12	#Max	QPSK	25.00	2.09	27.09	PASS
Band2	5	18900	25	#0	QPSK	24.92	2.09	27.01	PASS
Band2	5	18900	1	#0	16QAM	26.05	2.09	28.14	PASS
Band2	5	18900	1	#Mid	16QAM	25.00	2.09	27.09	PASS
Band2	5	18900	1	#Max	16QAM	26.05	2.09	28.14	PASS
Band2	5	18900	12	#0	16QAM	23.78	2.09	25.87	PASS
Band2	5	18900	12	#Mid	16QAM	23.70	2.09	25.79	PASS
Band2	5	18900	12	#Max	16QAM	23.82	2.09	25.91	PASS

Band2	5	18900	25	#0	16QAM	23.95	2.09	26.04	PASS
Band2	5	19175	1	#0	QPSK	25.88	2.09	27.97	PASS
Band2	5	19175	1	#Mid	QPSK	26.05	2.09	28.14	PASS
Band2	5	19175	1	#Max	QPSK	25.80	2.09	27.89	PASS
Band2	5	19175	12	#0	QPSK	25.03	2.09	27.12	PASS
Band2	5	19175	12	#Mid	QPSK	25.08	2.09	27.17	PASS
Band2	5	19175	12	#Max	QPSK	25.00	2.09	27.09	PASS
Band2	5	19175	25	#0	QPSK	25.13	2.09	27.22	PASS
Band2	5	19175	1	#0	16QAM	25.54	2.09	27.63	PASS
Band2	5	19175	1	#Mid	16QAM	26.05	2.09	28.14	PASS
Band2	5	19175	1	#Max	16QAM	26.06	2.09	28.15	PASS
Band2	5	19175	12	#0	16QAM	24.03	2.09	26.12	PASS
Band2	5	19175	12	#Mid	16QAM	24.01	2.09	26.10	PASS
Band2	5	19175	12	#Max	16QAM	24.07	2.09	26.16	PASS
Band2	5	19175	25	#0	16QAM	24.16	2.09	26.25	PASS
Band2	10	18650	1	#0	QPSK	26.05	2.09	28.14	PASS
Band2	10	18650	1	#Mid	QPSK	26.06	2.09	28.15	PASS
Band2	10	18650	1	#Max	QPSK	26.05	2.09	28.14	PASS
Band2	10	18650	25	#0	QPSK	24.57	2.09	26.66	PASS
Band2	10	18650	25	#Mid	QPSK	24.56	2.09	26.65	PASS
Band2	10	18650	25	#Max	QPSK	24.53	2.09	26.62	PASS
Band2	10	18650	50	#0	QPSK	24.49	2.09	26.58	PASS
Band2	10	18650	1	#0	16QAM	25.54	2.09	27.63	PASS
Band2	10	18650	1	#Mid	16QAM	26.05	2.09	28.14	PASS
Band2	10	18650	1	#Max	16QAM	25.48	2.09	27.57	PASS
Band2	10	18650	25	#0	16QAM	23.62	2.09	25.71	PASS
Band2	10	18650	25	#Mid	16QAM	23.58	2.09	25.67	PASS
Band2	10	18650	25	#Max	16QAM	23.48	2.09	25.57	PASS
Band2	10	18650	50	#0	16QAM	23.55	2.09	25.64	PASS
Band2	10	18900	1	#0	QPSK	25.77	2.09	27.86	PASS
Band2	10	18900	1	#Mid	QPSK	25.79	2.09	27.88	PASS
Band2	10	18900	1	#Max	QPSK	26.05	2.09	28.14	PASS
Band2	10	18900	25	#0	QPSK	24.97	2.09	27.06	PASS
Band2	10	18900	25	#Mid	QPSK	24.86	2.09	26.95	PASS
Band2	10	18900	25	#Max	QPSK	25.00	2.09	27.09	PASS
Band2	10	18900	50	#0	QPSK	24.96	2.09	27.05	PASS
Band2	10	18900	1	#0	16QAM	25.44	2.09	27.53	PASS
Band2	10	18900	1	#Mid	16QAM	26.05	2.09	28.14	PASS
Band2	10	18900	1	#Max	16QAM	25.54	2.09	27.63	PASS
Band2	10	18900	25	#0	16QAM	23.87	2.09	25.96	PASS
Band2	10	18900	25	#Mid	16QAM	24.01	2.09	26.10	PASS
Band2	10	18900	25	#Max	16QAM	24.01	2.09	26.10	PASS
Band2	10	18900	50	#0	16QAM	23.99	2.09	26.08	PASS
Band2	10	19150	1	#0	QPSK	26.05	2.09	28.14	PASS
Band2	10	19150	1	#Mid	QPSK	26.06	2.09	28.15	PASS
Band2	10	19150	1	#Max	QPSK	24.96	2.09	27.05	PASS
Band2	10	19150	25	#0	QPSK	25.13	2.09	27.22	PASS
Band2	10	19150	25	#Mid	QPSK	25.04	2.09	27.13	PASS
Band2	10	19150	25	#Max	QPSK	25.06	2.09	27.15	PASS
Band2	10	19150	50	#0	QPSK	25.05	2.09	27.14	PASS
Band2	10	19150	1	#0	16QAM	25.22	2.09	27.31	PASS
Band2	10	19150	1	#Mid	16QAM	26.05	2.09	28.14	PASS
Band2	10	19150	1	#Max	16QAM	26.06	2.09	28.15	PASS
Band2	10	19150	25	#0	16QAM	24.17	2.09	26.26	PASS
Band2	10	19150	25	#Mid	16QAM	24.15	2.09	26.24	PASS
Band2	10	19150	25	#Max	16QAM	24.10	2.09	26.19	PASS
Band2	10	19150	50	#0	16QAM	24.05	2.09	26.14	PASS

Band2	15	18675	1	#0	QPSK	26.05	2.09	28.14	PASS
Band2	15	18675	1	#Mid	QPSK	26.06	2.09	28.15	PASS
Band2	15	18675	1	#Max	QPSK	25.45	2.09	27.54	PASS
Band2	15	18675	36	#0	QPSK	24.63	2.09	26.72	PASS
Band2	15	18675	36	#Mid	QPSK	24.55	2.09	26.64	PASS
Band2	15	18675	36	#Max	QPSK	24.49	2.09	26.58	PASS
Band2	15	18675	75	#0	QPSK	24.50	2.09	26.59	PASS
Band2	15	18675	1	#0	16QAM	25.56	2.09	27.65	PASS
Band2	15	18675	1	#Mid	16QAM	25.53	2.09	27.62	PASS
Band2	15	18675	1	#Max	16QAM	26.05	2.09	28.14	PASS
Band2	15	18675	36	#0	16QAM	23.61	2.09	25.70	PASS
Band2	15	18675	36	#Mid	16QAM	23.51	2.09	25.60	PASS
Band2	15	18675	36	#Max	16QAM	23.65	2.09	25.74	PASS
Band2	15	18675	75	#0	16QAM	23.58	2.09	25.67	PASS
Band2	15	18900	1	#0	QPSK	26.05	2.09	28.14	PASS
Band2	15	18900	1	#Mid	QPSK	26.06	2.09	28.15	PASS
Band2	15	18900	1	#Max	QPSK	25.84	2.09	27.93	PASS
Band2	15	18900	36	#0	QPSK	24.84	2.09	26.93	PASS
Band2	15	18900	36	#Mid	QPSK	24.86	2.09	26.95	PASS
Band2	15	18900	36	#Max	QPSK	24.92	2.09	27.01	PASS
Band2	15	18900	75	#0	QPSK	24.90	2.09	26.99	PASS
Band2	15	18900	1	#0	16QAM	26.05	2.09	28.14	PASS
Band2	15	18900	1	#Mid	16QAM	25.57	2.09	27.66	PASS
Band2	15	18900	1	#Max	16QAM	25.62	2.09	27.71	PASS
Band2	15	18900	36	#0	16QAM	23.92	2.09	26.01	PASS
Band2	15	18900	36	#Mid	16QAM	24.04	2.09	26.13	PASS
Band2	15	18900	36	#Max	16QAM	24.05	2.09	26.14	PASS
Band2	15	18900	75	#0	16QAM	23.86	2.09	25.95	PASS
Band2	15	19125	1	#0	QPSK	25.90	2.09	27.99	PASS
Band2	15	19125	1	#Mid	QPSK	26.05	2.09	28.14	PASS
Band2	15	19125	1	#Max	QPSK	26.06	2.09	28.15	PASS
Band2	15	19125	36	#0	QPSK	25.04	2.09	27.13	PASS
Band2	15	19125	36	#Mid	QPSK	25.07	2.09	27.16	PASS
Band2	15	19125	36	#Max	QPSK	25.03	2.09	27.12	PASS
Band2	15	19125	75	#0	QPSK	24.99	2.09	27.08	PASS
Band2	15	19125	1	#0	16QAM	26.05	2.09	28.14	PASS
Band2	15	19125	1	#Mid	16QAM	26.06	2.09	28.15	PASS
Band2	15	19125	1	#Max	16QAM	24.96	2.09	27.05	PASS
Band2	15	19125	36	#0	16QAM	24.00	2.09	26.09	PASS
Band2	15	19125	36	#Mid	16QAM	24.04	2.09	26.13	PASS
Band2	15	19125	36	#Max	16QAM	24.00	2.09	26.09	PASS
Band2	15	19125	75	#0	16QAM	24.12	2.09	26.21	PASS
Band2	20	18700	1	#0	QPSK	25.68	2.09	27.77	PASS
Band2	20	18700	1	#Mid	QPSK	25.63	2.09	27.72	PASS
Band2	20	18700	1	#Max	QPSK	25.92	2.09	28.01	PASS
Band2	20	18700	50	#0	QPSK	24.54	2.09	26.63	PASS
Band2	20	18700	50	#Mid	QPSK	24.54	2.09	26.63	PASS
Band2	20	18700	50	#Max	QPSK	24.63	2.09	26.72	PASS
Band2	20	18700	100	#0	QPSK	24.57	2.09	26.66	PASS
Band2	20	18700	1	#0	16QAM	26.05	2.09	28.14	PASS
Band2	20	18700	1	#Mid	16QAM	24.59	2.09	26.68	PASS
Band2	20	18700	1	#Max	16QAM	24.82	2.09	26.91	PASS
Band2	20	18700	50	#0	16QAM	23.64	2.09	25.73	PASS
Band2	20	18700	50	#Mid	16QAM	23.66	2.09	25.75	PASS
Band2	20	18700	50	#Max	16QAM	23.68	2.09	25.77	PASS
Band2	20	18700	100	#0	16QAM	23.59	2.09	25.68	PASS
Band2	20	18900	1	#0	QPSK	26.05	2.09	28.14	PASS

Band2	20	18900	1	#Mid	QPSK	26.06	2.09	28.15	PASS
Band2	20	18900	1	#Max	QPSK	24.96	2.09	27.05	PASS
Band2	20	18900	50	#0	QPSK	24.85	2.09	26.94	PASS
Band2	20	18900	50	#Mid	QPSK	24.99	2.09	27.08	PASS
Band2	20	18900	50	#Max	QPSK	24.76	2.09	26.85	PASS
Band2	20	18900	100	#0	QPSK	24.98	2.09	27.07	PASS
Band2	20	18900	1	#0	16QAM	24.00	2.09	26.09	PASS
Band2	20	18900	1	#Mid	16QAM	24.53	2.09	26.62	PASS
Band2	20	18900	1	#Max	16QAM	24.57	2.09	26.66	PASS
Band2	20	18900	50	#0	16QAM	23.84	2.09	25.93	PASS
Band2	20	18900	50	#Mid	16QAM	23.95	2.09	26.04	PASS
Band2	20	18900	50	#Max	16QAM	23.87	2.09	25.96	PASS
Band2	20	18900	100	#0	16QAM	23.91	2.09	26.00	PASS
Band2	20	19100	1	#0	QPSK	26.05	2.09	28.14	PASS
Band2	20	19100	1	#Mid	QPSK	26.06	2.09	28.15	PASS
Band2	20	19100	1	#Max	QPSK	24.96	2.09	27.05	PASS
Band2	20	19100	50	#0	QPSK	24.94	2.09	27.03	PASS
Band2	20	19100	50	#Mid	QPSK	25.05	2.09	27.14	PASS
Band2	20	19100	50	#Max	QPSK	25.08	2.09	27.17	PASS
Band2	20	19100	100	#0	QPSK	25.01	2.09	27.10	PASS
Band2	20	19100	1	#0	16QAM	25.16	2.09	27.25	PASS
Band2	20	19100	1	#Mid	16QAM	25.23	2.09	27.32	PASS
Band2	20	19100	1	#Max	16QAM	26.05	2.09	28.14	PASS
Band2	20	19100	50	#0	16QAM	24.01	2.09	26.10	PASS
Band2	20	19100	50	#Mid	16QAM	24.09	2.09	26.18	PASS
Band2	20	19100	50	#Max	16QAM	24.14	2.09	26.23	PASS
Band2	20	19100	100	#0	16QAM	24.07	2.09	26.16	PASS

STING
ED

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	Verdict
Band4	1.4	19957	1	#0	QPSK	25.76	1.09	26.85	PASS
Band4	1.4	19957	1	#Mid	QPSK	25.81	1.09	26.90	PASS
Band4	1.4	19957	1	#Max	QPSK	25.78	1.09	26.87	PASS
Band4	1.4	19957	3	#0	QPSK	25.73	1.09	26.82	PASS
Band4	1.4	19957	3	#Mid	QPSK	25.67	1.09	26.76	PASS
Band4	1.4	19957	3	#Max	QPSK	25.64	1.09	26.73	PASS
Band4	1.4	19957	6	#0	QPSK	24.66	1.09	25.75	PASS
Band4	1.4	19957	1	#0	16QAM	25.62	1.09	26.71	PASS
Band4	1.4	19957	1	#Mid	16QAM	25.62	1.09	26.71	PASS
Band4	1.4	19957	1	#Max	16QAM	25.65	1.09	26.74	PASS
Band4	1.4	19957	3	#0	16QAM	24.92	1.09	26.01	PASS
Band4	1.4	19957	3	#Mid	16QAM	24.94	1.09	26.03	PASS
Band4	1.4	19957	3	#Max	16QAM	24.96	1.09	26.05	PASS
Band4	1.4	19957	6	#0	16QAM	23.93	1.09	25.02	PASS
Band4	1.4	20175	1	#0	QPSK	25.71	1.09	26.80	PASS
Band4	1.4	20175	1	#Mid	QPSK	25.77	1.09	26.86	PASS
Band4	1.4	20175	1	#Max	QPSK	25.75	1.09	26.84	PASS
Band4	1.4	20175	3	#0	QPSK	25.80	1.09	26.89	PASS
Band4	1.4	20175	3	#Mid	QPSK	25.71	1.09	26.80	PASS
Band4	1.4	20175	3	#Max	QPSK	25.79	1.09	26.88	PASS
Band4	1.4	20175	6	#0	QPSK	24.72	1.09	25.81	PASS
Band4	1.4	20175	1	#0	16QAM	24.75	1.09	25.84	PASS
Band4	1.4	20175	1	#Mid	16QAM	24.81	1.09	25.90	PASS
Band4	1.4	20175	1	#Max	16QAM	24.88	1.09	25.97	PASS
Band4	1.4	20175	3	#0	16QAM	24.73	1.09	25.82	PASS
Band4	1.4	20175	3	#Mid	16QAM	24.70	1.09	25.79	PASS
Band4	1.4	20175	3	#Max	16QAM	24.74	1.09	25.83	PASS
Band4	1.4	20175	6	#0	16QAM	23.99	1.09	25.08	PASS
Band4	1.4	20393	1	#0	QPSK	26.17	1.09	27.26	PASS
Band4	1.4	20393	1	#Mid	QPSK	26.12	1.09	27.21	PASS
Band4	1.4	20393	1	#Max	QPSK	26.16	1.09	27.25	PASS
Band4	1.4	20393	3	#0	QPSK	25.98	1.09	27.07	PASS
Band4	1.4	20393	3	#Mid	QPSK	26.03	1.09	27.12	PASS
Band4	1.4	20393	3	#Max	QPSK	25.96	1.09	27.05	PASS
Band4	1.4	20393	6	#0	QPSK	24.95	1.09	26.04	PASS
Band4	1.4	20393	1	#0	16QAM	24.53	1.09	25.62	PASS
Band4	1.4	20393	1	#Mid	16QAM	24.59	1.09	25.68	PASS
Band4	1.4	20393	1	#Max	16QAM	24.66	1.09	25.75	PASS
Band4	1.4	20393	3	#0	16QAM	24.89	1.09	25.98	PASS
Band4	1.4	20393	3	#Mid	16QAM	24.94	1.09	26.03	PASS
Band4	1.4	20393	3	#Max	16QAM	24.89	1.09	25.98	PASS
Band4	1.4	20393	6	#0	16QAM	24.06	1.09	25.15	PASS
Band4	3	19965	1	#0	QPSK	25.66	1.09	26.75	PASS
Band4	3	19965	1	#Mid	QPSK	25.69	1.09	26.78	PASS
Band4	3	19965	1	#Max	QPSK	25.57	1.09	26.66	PASS
Band4	3	19965	8	#0	QPSK	24.70	1.09	25.79	PASS
Band4	3	19965	8	#Mid	QPSK	24.76	1.09	25.85	PASS
Band4	3	19965	8	#Max	QPSK	24.60	1.09	25.69	PASS
Band4	3	19965	15	#0	QPSK	24.82	1.09	25.91	PASS
Band4	3	19965	1	#0	16QAM	25.78	1.09	26.87	PASS
Band4	3	19965	1	#Mid	16QAM	25.77	1.09	26.86	PASS
Band4	3	19965	1	#Max	16QAM	25.65	1.09	26.74	PASS
Band4	3	19965	8	#0	16QAM	23.71	1.09	24.80	PASS
Band4	3	19965	8	#Mid	16QAM	23.66	1.09	24.75	PASS

Band4	3	19965	8	#Max	16QAM	23.54	1.09	24.63	PASS
Band4	3	19965	15	#0	16QAM	23.87	1.09	24.96	PASS
Band4	3	20175	1	#0	QPSK	25.73	1.09	26.82	PASS
Band4	3	20175	1	#Mid	QPSK	25.73	1.09	26.82	PASS
Band4	3	20175	1	#Max	QPSK	25.77	1.09	26.86	PASS
Band4	3	20175	8	#0	QPSK	24.61	1.09	25.70	PASS
Band4	3	20175	8	#Mid	QPSK	24.66	1.09	25.75	PASS
Band4	3	20175	8	#Max	QPSK	24.72	1.09	25.81	PASS
Band4	3	20175	15	#0	QPSK	24.81	1.09	25.90	PASS
Band4	3	20175	1	#0	16QAM	24.72	1.09	25.81	PASS
Band4	3	20175	1	#Mid	16QAM	24.78	1.09	25.87	PASS
Band4	3	20175	1	#Max	16QAM	24.78	1.09	25.87	PASS
Band4	3	20175	8	#0	16QAM	23.77	1.09	24.86	PASS
Band4	3	20175	8	#Mid	16QAM	23.84	1.09	24.93	PASS
Band4	3	20175	8	#Max	16QAM	23.87	1.09	24.96	PASS
Band4	3	20175	15	#0	16QAM	23.78	1.09	24.87	PASS
Band4	3	20385	1	#0	QPSK	26.13	1.09	27.22	PASS
Band4	3	20385	1	#Mid	QPSK	26.08	1.09	27.17	PASS
Band4	3	20385	1	#Max	QPSK	26.13	1.09	27.22	PASS
Band4	3	20385	8	#0	QPSK	24.94	1.09	26.03	PASS
Band4	3	20385	8	#Mid	QPSK	24.97	1.09	26.06	PASS
Band4	3	20385	8	#Max	QPSK	24.92	1.09	26.01	PASS
Band4	3	20385	15	#0	QPSK	24.95	1.09	26.04	PASS
Band4	3	20385	1	#0	16QAM	24.51	1.09	25.60	PASS
Band4	3	20385	1	#Mid	16QAM	24.57	1.09	25.66	PASS
Band4	3	20385	1	#Max	16QAM	24.64	1.09	25.73	PASS
Band4	3	20385	8	#0	16QAM	24.09	1.09	25.18	PASS
Band4	3	20385	8	#Mid	16QAM	24.07	1.09	25.16	PASS
Band4	3	20385	8	#Max	16QAM	24.14	1.09	25.23	PASS
Band4	3	20385	15	#0	16QAM	23.97	1.09	25.06	PASS
Band4	5	19975	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	5	19975	1	#Mid	QPSK	26.17	1.09	27.26	PASS
Band4	5	19975	1	#Max	QPSK	26.12	1.09	27.21	PASS
Band4	5	19975	12	#0	QPSK	24.81	1.09	25.90	PASS
Band4	5	19975	12	#Mid	QPSK	24.63	1.09	25.72	PASS
Band4	5	19975	12	#Max	QPSK	24.69	1.09	25.78	PASS
Band4	5	19975	25	#0	QPSK	24.66	1.09	25.75	PASS
Band4	5	19975	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	5	19975	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	5	19975	1	#Max	16QAM	26.12	1.09	27.21	PASS
Band4	5	19975	12	#0	16QAM	23.71	1.09	24.80	PASS
Band4	5	19975	12	#Mid	16QAM	23.53	1.09	24.62	PASS
Band4	5	19975	12	#Max	16QAM	23.56	1.09	24.65	PASS
Band4	5	19975	25	#0	16QAM	23.73	1.09	24.82	PASS
Band4	5	20175	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	5	20175	1	#Mid	QPSK	26.17	1.09	27.26	PASS
Band4	5	20175	1	#Max	QPSK	26.12	1.09	27.21	PASS
Band4	5	20175	12	#0	QPSK	24.76	1.09	25.85	PASS
Band4	5	20175	12	#Mid	QPSK	24.76	1.09	25.85	PASS
Band4	5	20175	12	#Max	QPSK	24.78	1.09	25.87	PASS
Band4	5	20175	25	#0	QPSK	24.76	1.09	25.85	PASS
Band4	5	20175	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	5	20175	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	5	20175	1	#Max	16QAM	24.88	1.09	25.97	PASS
Band4	5	20175	12	#0	16QAM	23.56	1.09	24.65	PASS
Band4	5	20175	12	#Mid	16QAM	23.61	1.09	24.70	PASS
Band4	5	20175	12	#Max	16QAM	23.61	1.09	24.70	PASS



Band4	5	20175	25	#0	16QAM	23.83	1.09	24.92	PASS
Band4	5	20375	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	5	20375	1	#Mid	QPSK	25.72	1.09	26.81	PASS
Band4	5	20375	1	#Max	QPSK	23.99	1.09	25.08	PASS
Band4	5	20375	12	#0	QPSK	24.98	1.09	26.07	PASS
Band4	5	20375	12	#Mid	QPSK	24.82	1.09	25.91	PASS
Band4	5	20375	12	#Max	QPSK	24.92	1.09	26.01	PASS
Band4	5	20375	25	#0	QPSK	24.96	1.09	26.05	PASS
Band4	5	20375	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	5	20375	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	5	20375	1	#Max	16QAM	26.12	1.09	27.21	PASS
Band4	5	20375	12	#0	16QAM	24.01	1.09	25.10	PASS
Band4	5	20375	12	#Mid	16QAM	23.97	1.09	25.06	PASS
Band4	5	20375	12	#Max	16QAM	23.94	1.09	25.03	PASS
Band4	5	20375	25	#0	16QAM	24.03	1.09	25.12	PASS
Band4	10	20000	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	10	20000	1	#Mid	QPSK	25.62	1.09	26.71	PASS
Band4	10	20000	1	#Max	QPSK	23.99	1.09	25.08	PASS
Band4	10	20000	25	#0	QPSK	24.66	1.09	25.75	PASS
Band4	10	20000	25	#Mid	QPSK	24.71	1.09	25.80	PASS
Band4	10	20000	25	#Max	QPSK	24.62	1.09	25.71	PASS
Band4	10	20000	50	#0	QPSK	24.61	1.09	25.70	PASS
Band4	10	20000	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	10	20000	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	10	20000	1	#Max	16QAM	26.12	1.09	27.21	PASS
Band4	10	20000	25	#0	16QAM	23.66	1.09	24.75	PASS
Band4	10	20000	25	#Mid	16QAM	23.72	1.09	24.81	PASS
Band4	10	20000	25	#Max	16QAM	23.74	1.09	24.83	PASS
Band4	10	20000	50	#0	16QAM	23.73	1.09	24.82	PASS
Band4	10	20175	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	10	20175	1	#Mid	QPSK	26.17	1.09	27.26	PASS
Band4	10	20175	1	#Max	QPSK	26.12	1.09	27.21	PASS
Band4	10	20175	25	#0	QPSK	24.77	1.09	25.86	PASS
Band4	10	20175	25	#Mid	QPSK	24.81	1.09	25.90	PASS
Band4	10	20175	25	#Max	QPSK	24.73	1.09	25.82	PASS
Band4	10	20175	50	#0	QPSK	24.83	1.09	25.92	PASS
Band4	10	20175	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	10	20175	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	10	20175	1	#Max	16QAM	26.12	1.09	27.21	PASS
Band4	10	20175	25	#0	16QAM	23.77	1.09	24.86	PASS
Band4	10	20175	25	#Mid	16QAM	23.81	1.09	24.90	PASS
Band4	10	20175	25	#Max	16QAM	23.79	1.09	24.88	PASS
Band4	10	20175	50	#0	16QAM	23.86	1.09	24.95	PASS
Band4	10	20350	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	10	20350	1	#Mid	QPSK	26.03	1.09	27.12	PASS
Band4	10	20350	1	#Max	QPSK	23.99	1.09	25.08	PASS
Band4	10	20350	25	#0	QPSK	25.04	1.09	26.13	PASS
Band4	10	20350	25	#Mid	QPSK	25.02	1.09	26.11	PASS
Band4	10	20350	25	#Max	QPSK	25.00	1.09	26.09	PASS
Band4	10	20350	50	#0	QPSK	25.05	1.09	26.14	PASS
Band4	10	20350	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	10	20350	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	10	20350	1	#Max	16QAM	26.12	1.09	27.21	PASS
Band4	10	20350	25	#0	16QAM	24.07	1.09	25.16	PASS
Band4	10	20350	25	#Mid	16QAM	24.10	1.09	25.19	PASS
Band4	10	20350	25	#Max	16QAM	24.03	1.09	25.12	PASS
Band4	10	20350	50	#0	16QAM	24.04	1.09	25.13	PASS

Band4	15	20025	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	15	20025	1	#Mid	QPSK	26.17	1.09	27.26	PASS
Band4	15	20025	1	#Max	QPSK	25.69	1.09	26.78	PASS
Band4	15	20025	36	#0	QPSK	24.63	1.09	25.72	PASS
Band4	15	20025	36	#Mid	QPSK	24.72	1.09	25.81	PASS
Band4	15	20025	36	#Max	QPSK	24.61	1.09	25.70	PASS
Band4	15	20025	75	#0	QPSK	24.60	1.09	25.69	PASS
Band4	15	20025	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	15	20025	1	#Mid	16QAM	25.79	1.09	26.88	PASS
Band4	15	20025	1	#Max	16QAM	23.99	1.09	25.08	PASS
Band4	15	20025	36	#0	16QAM	23.65	1.09	24.74	PASS
Band4	15	20025	36	#Mid	16QAM	23.68	1.09	24.77	PASS
Band4	15	20025	36	#Max	16QAM	23.66	1.09	24.75	PASS
Band4	15	20025	75	#0	16QAM	23.74	1.09	24.83	PASS
Band4	15	20175	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	15	20175	1	#Mid	QPSK	26.17	1.09	27.26	PASS
Band4	15	20175	1	#Max	QPSK	26.12	1.09	27.21	PASS
Band4	15	20175	36	#0	QPSK	24.69	1.09	25.78	PASS
Band4	15	20175	36	#Mid	QPSK	24.70	1.09	25.79	PASS
Band4	15	20175	36	#Max	QPSK	24.79	1.09	25.88	PASS
Band4	15	20175	75	#0	QPSK	24.73	1.09	25.82	PASS
Band4	15	20175	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	15	20175	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	15	20175	1	#Max	16QAM	26.12	1.09	27.21	PASS
Band4	15	20175	36	#0	16QAM	23.78	1.09	24.87	PASS
Band4	15	20175	36	#Mid	16QAM	23.88	1.09	24.97	PASS
Band4	15	20175	36	#Max	16QAM	23.86	1.09	24.95	PASS
Band4	15	20175	75	#0	16QAM	23.74	1.09	24.83	PASS
Band4	15	20325	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	15	20325	1	#Mid	QPSK	26.17	1.09	27.26	PASS
Band4	15	20325	1	#Max	QPSK	26.12	1.09	27.21	PASS
Band4	15	20325	36	#0	QPSK	24.79	1.09	25.88	PASS
Band4	15	20325	36	#Mid	QPSK	24.83	1.09	25.92	PASS
Band4	15	20325	36	#Max	QPSK	24.89	1.09	25.98	PASS
Band4	15	20325	75	#0	QPSK	24.87	1.09	25.96	PASS
Band4	15	20325	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	15	20325	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	15	20325	1	#Max	16QAM	25.99	1.09	27.08	PASS
Band4	15	20325	36	#0	16QAM	23.89	1.09	24.98	PASS
Band4	15	20325	36	#Mid	16QAM	23.93	1.09	25.02	PASS
Band4	15	20325	36	#Max	16QAM	23.98	1.09	25.07	PASS
Band4	15	20325	75	#0	16QAM	24.04	1.09	25.13	PASS
Band4	20	20050	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	20	20050	1	#Mid	QPSK	25.78	1.09	26.87	PASS
Band4	20	20050	1	#Max	QPSK	23.99	1.09	25.08	PASS
Band4	20	20050	50	#0	QPSK	24.74	1.09	25.83	PASS
Band4	20	20050	50	#Mid	QPSK	24.72	1.09	25.81	PASS
Band4	20	20050	50	#Max	QPSK	24.59	1.09	25.68	PASS
Band4	20	20050	100	#0	QPSK	24.72	1.09	25.81	PASS
Band4	20	20050	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	20	20050	1	#Mid	16QAM	24.77	1.09	25.86	PASS
Band4	20	20050	1	#Max	16QAM	23.99	1.09	25.08	PASS
Band4	20	20050	50	#0	16QAM	23.76	1.09	24.85	PASS
Band4	20	20050	50	#Mid	16QAM	23.79	1.09	24.88	PASS
Band4	20	20050	50	#Max	16QAM	23.70	1.09	24.79	PASS
Band4	20	20050	100	#0	16QAM	23.75	1.09	24.84	PASS
Band4	20	20175	1	#0	QPSK	23.99	1.09	25.08	PASS

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Band4	20	20175	1	#Mid	QPSK	26.17	1.09	27.26	PASS
Band4	20	20175	1	#Max	QPSK	26.12	1.09	27.21	PASS
Band4	20	20175	50	#0	QPSK	24.69	1.09	25.78	PASS
Band4	20	20175	50	#Mid	QPSK	24.77	1.09	25.86	PASS
Band4	20	20175	50	#Max	QPSK	24.80	1.09	25.89	PASS
Band4	20	20175	100	#0	QPSK	24.72	1.09	25.81	PASS
Band4	20	20175	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	20	20175	1	#Mid	16QAM	26.17	1.09	27.26	PASS
Band4	20	20175	1	#Max	16QAM	26.12	1.09	27.21	PASS
Band4	20	20175	50	#0	16QAM	23.74	1.09	24.83	PASS
Band4	20	20175	50	#Mid	16QAM	23.79	1.09	24.88	PASS
Band4	20	20175	50	#Max	16QAM	23.87	1.09	24.96	PASS
Band4	20	20175	100	#0	16QAM	23.82	1.09	24.91	PASS
Band4	20	20300	1	#0	QPSK	23.99	1.09	25.08	PASS
Band4	20	20300	1	#Mid	QPSK	26.17	1.09	27.26	PASS
Band4	20	20300	1	#Max	QPSK	26.12	1.09	27.21	PASS
Band4	20	20300	50	#0	QPSK	24.90	1.09	25.99	PASS
Band4	20	20300	50	#Mid	QPSK	24.84	1.09	25.93	PASS
Band4	20	20300	50	#Max	QPSK	25.02	1.09	26.11	PASS
Band4	20	20300	100	#0	QPSK	24.85	1.09	25.94	PASS
Band4	20	20300	1	#0	16QAM	23.99	1.09	25.08	PASS
Band4	20	20300	1	#Mid	16QAM	25.35	1.09	26.44	PASS
Band4	20	20300	1	#Max	16QAM	23.99	1.09	25.08	PASS
Band4	20	20300	50	#0	16QAM	23.94	1.09	25.03	PASS
Band4	20	20300	50	#Mid	16QAM	24.02	1.09	25.11	PASS
Band4	20	20300	50	#Max	16QAM	24.09	1.09	25.18	PASS
Band4	20	20300	100	#0	16QAM	23.86	1.09	24.95	PASS

