

FCC SAR REPORT

Applicant: INFINIX MOBILITY LIMITED

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE
19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: X6815C

Trade mark Infinix

FCC ID: 2AIZN-X6815C

Applicable standards: FCC 47 CFR Part 2.1093

Date of Test: 22 Jul., 2022 ~ 04 Aug., 2022

Test Result: Maximum Reported 1-g SAR (W/kg)
Head: 1.244 Body: 0.850 Hotspot: 0.965

Authorized Signature:



Bruce Zhang
Laboratory Manager

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

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2 Version

Version No.	Date	Description
00	13 Sep., 2022	Original

Tested by:

Vieta Zhang

Date:

13 Sep., 2022

Test Engineer

Reviewed by:

Janet. Wei

Date:

13 Sep., 2022

Project Engineer

3 Contents

1	COVER PAGE.....	1
2	VERSION	2
3	CONTENTS	3
4	SAR RESULTS SUMMARY.....	5
5	GENERAL INFORMATION.....	8
5.1	CLIENT INFORMATION.....	8
5.2	GENERAL DESCRIPTION OF EUT	8
5.3	MAXIMUM RF OUTPUT POWER	10
5.4	ENVIRONMENT OF TEST SITE	12
5.5	TEST SAMPLE PLAN	12
5.6	TEST LOCATION	12
6	INTRODUCTION.....	13
6.1	INTRODUCTION	13
6.2	SAR DEFINITION	13
7	RF EXPOSURE LIMITS	14
7.1	UNCONTROLLED ENVIRONMENT.....	14
7.2	CONTROLLED ENVIRONMENT	14
7.3	RF EXPOSURE LIMITS	14
8	SAR MEASUREMENT SYSTEM.....	15
8.1	E-FIELD PROBE.....	16
8.2	DATA ACQUISITION ELECTRONICS (DAE).....	16
8.3	ROBOT	17
8.4	MEASUREMENT SERVER	17
8.5	LIGHT BEAM UNIT.....	17
8.6	PHANTOM.....	18
8.7	DEVICE HOLDER.....	19
8.8	DATA STORAGE AND EVALUATION	20
8.9	TEST EQUIPMENT LIST	22
9	TISSUE SIMULATING LIQUIDS	24
10	SAR SYSTEM VERIFICATION.....	26
11	EUT TESTING POSITION.....	28
11.1	HANDSET REFERENCE POINTS	28
11.2	POSITIONING FOR CHEEK / TOUCH	29
11.3	POSITIONING FOR EAR / 15° TILT	29
11.4	SAR EVALUATIONS NEAR THE MOUTH/JAW REGIONS OF THE SAM PHANTOM	30
11.5	BODY WORN ACCESSORY CONFIGURATIONS	30
11.6	WIRELESS ROUTER (HOTSPOT) CONFIGURATIONS	31
12	MEASUREMENT PROCEDURES	32
12.1	SPATIAL PEAK SAR EVALUATION	32
12.2	POWER REFERENCE MEASUREMENT.....	33
12.3	AREA & ZOOM SCAN PROCEDURES.....	33
12.4	VOLUME SCAN PROCEDURES	34
12.5	SAR AVERAGED METHODS	34
12.6	POWER DRIFT MONITORING	34
13	CONDUCTED RF OUTPUT POWER.....	35
13.1	GSM CONDUCTED POWER	35
13.2	WCDMA CONDUCTED POWER	37
13.3	LTE CONDUCTED POWER	40
13.4	NR CONDUCTED POWER.....	67
13.5	WLAN 2.4 GHz BAND CONDUCTED POWER	93
13.6	WLAN 5.2GHz BAND CONDUCTED POWER	94
13.7	WLAN 5.8GHz BAND CONDUCTED POWER	95
13.8	BLUETOOTH CONDUCTED POWER	96
13.9	NFC CONDUCTED POWER	97
14	EXPOSURE POSITIONS CONSIDERATION	98

14.1	EUT ANTENNA LOCATIONS.....	98
14.2	TEST POSITIONS CONSIDERATION	99
15	SAR TEST RESULTS SUMMARY	100
15.1	STANDALONE HEAD SAR DATA.....	100
15.2	STANDALONE BODY SAR	110
15.3	BODY SAR IN HOTSPOT MODE	116
15.4	REPEATED SAR MEASUREMENT	126
15.5	DUT HOLDER PERTURBATION UNCERTAINTY EVALUATION	127
15.6	MULTI-BAND SIMULTANEOUS TRANSMISSION CONSIDERATIONS.....	128
15.7	SAR SIMULTANEOUS TRANSMISSION ANALYSIS.....	129
15.8	MEASUREMENT UNCERTAINTY	134
15.9	MEASUREMENT CONCLUSION	135
16	REFERENCE.....	136
	APPENDIX A: PLOTS OF SAR SYSTEM CHECK	137
	APPENDIX B: PLOTS OF SAR TEST DATA	148
	APPENDIX C: SYSTEM CALIBRATION CERTIFICATE.....	206

4 SAR Results Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows:
<Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported 1-g SAR (W/kg)
Head	GSM 850	0.746	PCE	1.244
	GSM 1900	0.750		
	WCDMA Band II	0.951		
	WCDMA Band IV	1.244		
	WCDMA Band V	0.603		
	LTE Band 2	0.720		
	LTE Band 5	0.577		
	LTE Band 7	1.159		
	LTE Band 41& Band 38	0.792		
	LTE Band 66 & Band 4	0.795		
	NR n2	0.792		
	NR n5	0.387		
	NR n7	0.788		
	NR n41& NR n38	0.487		
	NR n66	0.774		
	NR n71	0.243		
	NRn77 (3450MHz~3550MHz) & NRn78 (3450MHz~3550MHz)	1.023		
	NRn77 (3700MHz~3980MHz) & NRn78 (3700MHz~3800MHz)	0.641		
	WLAN 2.4 GHz	0.118	DTS	
	Bluetooth	0.039	DSS	
WLAN 5.2 GHz	0.061	NII		
WLAN 5.8 GHz	0.130			
Body (10 mm Gap)	GSM 850	0.439	PCE	0.850
	GSM 1900	0.850		
	WCDMA Band II	0.293		
	WCDMA Band IV	0.331		
	WCDMA Band V	0.178		
	LTE Band 2	0.254		
	LTE Band 5	0.188		
	LTE Band 7	0.450		
	LTE Band 41& Band 38	0.350		
	LTE Band 66 & Band 4	0.213		
	NR n2	0.197		
	NR n5	0.166		
	NR n7	0.469		
	NR n41& NR n38	0.280		
	NR n66	0.226		
	NR n71	0.088		
	NRn77 (3450MHz~3550MHz) & NRn78	0.571		

	(3450MHz~3550MHz)			
	NRn77 (3700MHz~3980MHz) & NRn78 (3700MHz~3800MHz)	0.266		
	WLAN 2.4GHz	0.050		
	Bluetooth	0.010		
	WLAN 5.2 GHz	0.020		
	WLAN 5.8 GHz	0.182		
Hotspot (10 mm Gap)	GSM 850	0.354	PCE	0.965
	GSM 1900	0.850		
	WCDMA Band II	0.414		
	WCDMA Band IV	0.398		
	WCDMA Band V	0.154		
	LTE Band 2	0.374		
	LTE Band 5	0.162		
	LTE Band 7	0.488		
	LTE Band 41& Band 38	0.383		
	LTE Band 66 & Band 4	0.309		
	NR n2	0.381		
	NR n5	0.139		
	NR n7	0.469		
	NR n41& NR n38	0.280		
	NR n66	0.329		
	NR n71	0.069		
	NRn77 (3450MHz~3550MHz) & NRn78 (3450MHz~3550MHz)	0.965		
	NRn77 (3700MHz~3980MHz) & NRn78 (3700MHz~3800MHz)	0.541		
	WLAN 2.4 GHz	0.088		
	Bluetooth	0.010		
	WLAN 5.2 GHz	0.020		
	WLAN 5.8 GHz	0.182		

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported Simultaneous Transmission 1-g SAR (W/kg)
Left Cheek	EN-DC 5A_n78A	1.357	PCE	1.541
	WLAN 5GHz MIMO	0.184	DTS	
	NFC	0.000	DXX	

Note:

- The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r03, and scalar SAR summation of all possible simultaneous transmission scenarios are < 1.6W/kg.
- This device is 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 C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.
- For FDD-LTE Band 4 is full covered by FDD-LTE Band 66, so only FDD-LTE Band 66 was tested.
- For FDD-LTE Band 38 is full covered by FDD-LTE Band 41, so only FDD-LTE Band 41 was tested.
- For NR n38 is full covered by NR n41, so only NR n41 was tested.

6. For NR n78 is full covered by NR n77, so only NR n77 was tested.

5 General Information

5.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

5.2 General Description of EUT

Product Name:	Mobile Phone			
Model No.:	X6815C			
Category of device	Portable device			
Operation Frequency:	2G :	GSM850: 824.2~848.8 MHz		PCS 1900: 1850.2~1909.8 MHz
	3G :	Band II: 1852.4~1907.6 MHz		Band V: 826.4~846.6 MHz
		Band IV: 1712.4~1752.6 MHz		
	4G :	Band 2 :1850MHz~1910MHz		Band 4 :1710MHz~1755MHz
		Band 5 :824MHz~849MHz		Band 7: 2500MHz~2570MHz
		Band 38: 2570MHz~2620MHz		Band 41: 2496MHz~2690MHz
		Band 66 :1710MHz~1780MHz		
	5G NR	n2: 1850MHz~1910MHz		n5: 824MHz~49MHz
		n7: 2500MHz~2570MHz		n38: 2570MHz~2620MHz
		n41: 2496MHz~2690MHz		n66: 1710 MHz~1780MHz
		n71: 663MHz~698MHz		n77: 3450MHz~3550MHz
		n77: 3700MHz~3980MHz		n78: 3450 MHz~3550MHz
		n78: 3700MHz~3800MHz		
	Wi-Fi:	2412MHz~2462MHz		5150MHz~5250MHz
5725MHz~5850MHz				
Bluetooth: 2402 MHz~2480 MHz				
NFC : 13.56MHz				
Modulation technology:	2G:	☒ Voice(GMSK)	☒ GPRS(GMSK)	☒ EGPRS(GMSK, 8PSK)
	3G:	☒ RMC(QPSK)	☒ HSUPA(QPSK)	☒ HSDPA(QPSK,16QAM)
	4G:	☒ QPSK	☒ 16QAM	☒ 64QAM
	5G NR:	☒ CP-OFDM(QPSK,16QAM,64QAM,256QAM)		
		☒ DFT-s-OFDM($\pi/2$ -BPSK,QPSK,16QAM,64QAM,256QAM)		
	Wi-Fi:	☒ 802.11b(DSSS)		☒ 802.11a/g/n/ax (OFDM)
	Bluetooth:	☒ BDR(GFSK)	☒ EDR($\pi/4$ -DQPSK, 8DPSK)	☒ LE(GFSK)
	NFC :	ASK		
SA: NR n2,n5, n7, n38, n41, n66, n71, n77, n78				

	NSA(EN-DC): DC_5A_n7A, DC_5A_n41A, DC_41A_n41A, DC_5A_n78A, DC_7A_n78A,DC_38A_n78A,DC_41A_n78A,DC_66A_n78A,DC_5A_n77A, DC_7A_n77A, DC_71A_n77A, DC_66A_n77A.	
Antenna Type:	Internal Antenna	
Antenna Gain:	GSM 850: -4.33dBi; PCS 1900: -1.30dBi WCDMA Band II: -1.30dBi;; WCDMA Band V: -4.33dBi WCDMA Band IV: -1.10dBi LTE Band 2: -1.30dBi; LTE Band 4: -1.10dBi LTE Band 5: -4.33dBi; LTE Band 7: -0.50dBi LTE Band 38: -0.50dBi; LTE Band 41: -0.50dBi; LTE Band 66: -1.10dBi n2: -1.30dBi; n5: -4.33dBi; n7: -0.50dBi n38: -0.50dBi; n41: -0.50dBi; n66: -1.10dBi n71: -4.93dBi; n77: -2.71dBi ; n78: -2.71dBi Bluetooth: 0.91dBi; 2.4G Wi-Fi: 0.91dBi; 5G Wi-Fi: -0.2dBi	
(E)GPRS Class:	(E)GPRS Class: 12	
Dimensions (L*W*H):	169 mm (L)× 77 mm (W)× 9 mm (H)	
Accessories information:	Adapter: Model: U330XSA Input: AC100-240V, 50/60Hz, 1.5A Output: DC 5.0V, 3.0A 15.0W or DC 10 .0V, 3.3A 33.0W	Battery: Rechargeable Li-ion Battery 3.87V/4900mAh
		Headset: Support headset

5.3 Maximum RF Output Power

Mode	Average Power (dBm)	
	GSM 850	GSM 1900
GSM (Voice)	33.91	30.96
GPRS (1 TX Slot)	33.84	30.97
GPRS (2 TX Slots)	33.00	30.01
GPRS (3 TX Slots)	31.11	27.94
GPRS (4 TX Slots)	30.05	26.87
EGPRS (1 TX Slot)	27.73	26.31
EGPRS (2 TX Slots)	26.60	25.10
EGPRS (3 TX Slots)	24.61	23.14
EGPRS (4 TX Slots)	23.53	22.03

Mode	Average Power (dBm)		
	WCDMA Band II	WCDMA Band IV	WCDMA Band V
AMR 12.2 kbps	24.34	23.22	23.12
RMC 12.2 kbps	24.27	23.22	23.01
HSDPA Sub-test 1	23.30	22.21	22.26
HSDPA Sub-test 2	22.76	21.71	21.74
HSDPA Sub-test 3	22.79	21.76	21.79
HSDPA Sub-test 4	22.74	21.70	21.77
HSUPA Sub-test 1	21.23	20.17	20.26
HSUPA Sub-test 2	21.73	20.68	20.78
HSUPA Sub-test 3	22.25	21.19	21.29
HSUPA Sub-test 4	21.25	20.17	20.30
HSUPA Sub-test 5	23.24	22.21	22.28

Mode	Average Power (dBm)				
	LTE Band 2	LTE Band 5	LTE Band 7	LTE Band 41	LTE Band 66
BW/1.4 MHz	23.46	23.61	/	/	23.64
BW/3.0 MHz	23.53	23.53	/	/	23.57
BW/5.0 MHz	23.64	23.81	22.63	22.55	23.81
BW/10 MHz	23.53	23.63	22.52	22.46	23.61
BW/15 MHz	23.45	/	22.45	22.46	23.56
BW/20 MHz	23.57	/	22.57	22.44	23.59

Mode	Average Power (dBm)							
	NR Band n2	NR Band n5	NR Band n7	NR Band n41	NR Band n66	NR Band n71	NR Band n77 3450-3550	NR Band n77 3700-3980
BW/10MHz	22.15	22.83	20.82	25.39	22.52	22.71	25.68	25.22
BW/15MHz	22.12	22.79	20.87	25.35	22.37	22.62	25.62	25.22
BW/20 MHz	22.07	22.59	22.40	25.42	22.60	22.67	25.70	25.18
BW/30MHz	/	/	/	25.33	/	/	25.75	25.24
BW/40MHz	/	/	/	25.27	22.04	/	25.86	25.29
BW/50MHz	/	/	/	25.37	/	/	25.89	25.31
BW/60MHz	/	/	/	25.40	/	/	25.80	25.28
BW/80MHz	/	/	/	25.65	/	/	25.71	25.32
BW/90MHz	/	/	/	25.53	/	/	25.63	25.26
BW/100MHz	/	/	/	25.59	/	/	25.56	25.24

ANT1

WLAN 2.4 GHz Band Average Power (dBm)						
Mode/Band	b	g	n (HT-20)	n (HT-40)	ax20	ax40
WLAN 2.4GHz	16.07	13.36	12.91	12.46	10.06	9.56

ANT2

WLAN 2.4 GHz Band Average Power (dBm)						
Mode/Band	b	g	n (HT-20)	n (HT-40)	ax20	ax40
WLAN 2.4GHz	16.32	13.74	12.03	11.38	8.46	8.57

ANT1

WLAN 5.2 GHz Band Average Power (dBm)									
Mode/Band	a	ac 20	ac 40	ac 80	ax20	ax40	ax80	n 20	n 40
WLAN 5.2GHz	12.10	10.33	9.25	8.88	9.00	8.66	8.44	10.49	9.28

ANT2

WLAN 5.2 GHz Band Average Power (dBm)									
Mode/Band	a	ac 20	ac 40	ac 80	ax20	ax40	ax80	n 20	n 40
WLAN 5.2GHz	12.44	9.34	7.99	7.40	7.40	7.28	6.98	9.25	7.89

ANT1

WLAN 5.8 GHz Band Average Power (dBm)									
Mode/Band	a	ac 20	ac 40	ac 80	ax20	ax40	ax80	n 20	n 40
WLAN 5.8GHz	13.50	10.24	9.86	8.79	7.17	9.15	8.25	11.30	9.78

ANT2

WLAN 5.8 GHz Band Average Power (dBm)									
Mode/Band	a	ac 20	ac 40	ac 80	ax20	ax40	ax80	n 20	n 40
WLAN 5.8GHz	12.56	9.68	8.69	8.25	7.07	7.91	7.62	10.66	8.82

Bluetooth Average Power (dBm)							
Mode/Band	1 Mbps (GFSK)	2 Mbps ($\pi/4$ DQPSK)	3 Mbps (8DPSK)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=2
Bluetooth	3.22	2.66	3.05	3.02	2.91	3.00	2.98

NFC Band Average Power (dBm)	
Mode/Band	ASK
NFC	-38.74

5.4 Environment of Test Site

Temperature:	18°C ~25 °C
Humidity:	35%~75% RH
Atmospheric Pressure:	1010 mbar

5.5 Test Sample Plan

Sample Number	Used for Test Items
2#	SAR
<i>Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.</i>	

5.6 Test Location

JianYan Testing Group Shenzhen Co., Ltd.
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community,Xinqiao Street,
Bao'an District, Shenzhen, Guangdong,People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

6 Introduction

6.1 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.

6.2 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:

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

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

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

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.

7 RF Exposure Limits

7.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

7.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

7.3 RF Exposure Limits

SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
SPATIAL PEAK SAR Brain	1.6	8.0
SPATIAL AVERAGE SAR Whole Body	0.08	0.4
SPATIAL PEAK SAR Hands, Feet, Ankles, Wrists	4.0	20

Note:

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

8 SAR Measurement System

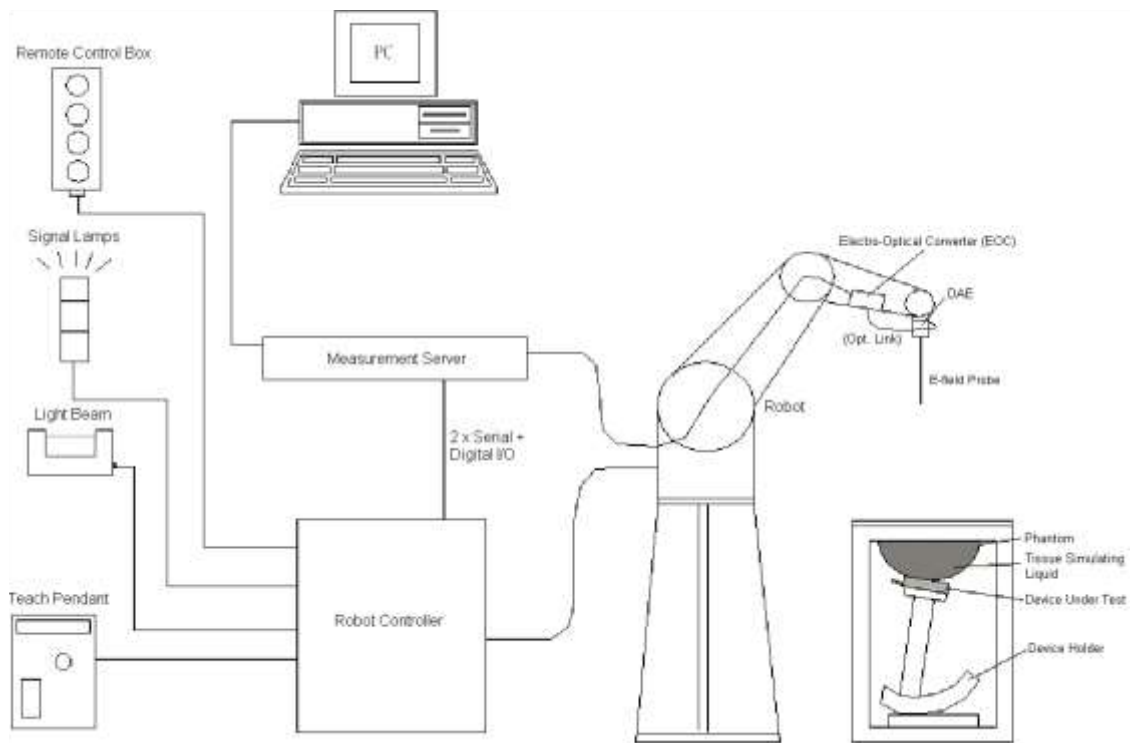


Fig. 8.1 SPEAG DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Component details are described in the following sub-sections.

8.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

➤ E-Field Probe Specification <EX3DV4 Probe>

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency Directivity	10 MHz to 6 GHz; Linearity: ± 0.2 dB ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 330 mm (Tip: 20mm) Tip diameter: 2.5 mm (Body: 12mm) Typical distance from probe tip to dipole centers: 1 mm	

Fig. 8.2 Photo of E-Field Probe

➤ E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y and Norm Z), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix E of this report.

8.2 Data Acquisition Electronics (DAE)

The Data acquisition electronics (DAE) consists 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 and 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 input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig. 8.3 Photo of DAE

8.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; nobelt drives)
- Jerk-free straight movements
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Fig. 8.4 Photo of Robot

8.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY 5: 400MHz, Intel Celeron), chip-disk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board. The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Fig. 8.5 Photo of Server for DASY5

8.5 Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



Fig. 8.6 Photo of Light Beam

8.6 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume Dimensions	Approx. 25 liters Length: 1000mm; Width: 500mm; Height: adjustable feet
Measurement Areas	Left Head, Right Head, Flat phantom



Fig. 8.7 Photo of SAM Twin Phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom >

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.

ELI4 has been optimized regarding its performance and can be integrated into a SPEAG standard phantom table. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom can be used with the following tissue simulating liquids:

- Water-sugar based liquids can be left permanently in the phantom. Always cover the liquid if the system is not in use; otherwise the parameters will change due to water evaporation.
- DGBE based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the phantom resistiveness

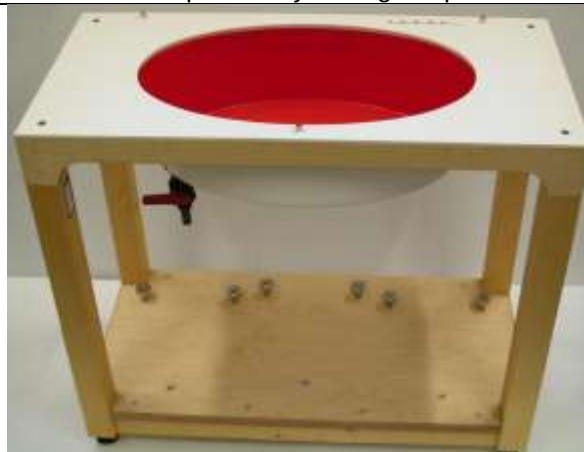


Fig.8.8 Photo of ELI4 Phantom

8.7 Device Holder

<Device Holder for SAM Twin Phantom>

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards. The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP).

Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-low POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Fig. 8.9 Photo of Device Holder

8.8 Data storage and Evaluation

➤ Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verifications of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

➤ Data Evaluation

The DASY post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe Parameters:	- Sensitivity	$\text{Norm}_i, a_{i0}, a_{i1}, a_{i2}$
	- Conversion	ConvF_i
	- Diode compression point	dcp_i
Device Parameters:	- Frequency	f
	- Crest	cf
Media Parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With V_i = compensated signal of channel i, (i = x, y, z)
 U_i = input signal of channel i, (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcpⁱ = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated:

$$\text{E- Field Probes: } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-Field Probes: } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

With V_i = compensated signal of channel i, (i = x, y, z)
 Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V/ (V/m)}^2$
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency (GHz)
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

With SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in (mho/m) or (Siemens/m)
 ρ = equipment tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

8.9 Test Equipment List

Manufacturer	Equipment Description	Model	Management Number	Cal. Information	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1118	05.28.2020	05.27.2023
SPEAG	835MHz System Validation Kit	D835V2	4d154	06.08.2022	06.07.2025
SPEAG	1750MHz System Validation Kit	D1750V2	1177	02.10.2021	02.09.2024
SPEAG	1900MHz System Validation Kit	D1900V2	5d175	06.07.2022	06.06.2025
SPEAG	2450MHz System Validation Kit	D2450V2	910	06.06.2022	06.05.2025
SPEAG	2600MHz System Validation Kit	D2600V2	1114	10.28.2021	10.27.2024
SPEAG	3500MHz System Validation Kit	D3500V2	1118	02.04.2021	02.03.2024
SPEAG	3700MHz System Validation Kit	D3700V2	1089	02.04.2021	02.03.2024
SPEAG	3900MHz System Validation Kit	D3900V2	1064	02.09.2021	02.08.2024
SPEAG	5GHz System Validation Kit	D5GHzV2	1320	02.05.2021	02.04.2024
SPEAG	Data Acquisition Electronics	DAE4	1373	06.06.2022	06.05.2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7601	12.28.2021	12.27.2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	3826	07.28.2021	07.27.2022
SPEAG	DASY 52 Measurement Software	DASY 52	Version 52.10.4.1527	N.C.R	N.C.R
SPEAG	DASY 52 File Conversion Software	SEMCAD X	Version 14.6.14 (7483)	N.C.R	N.C.R
SPEAG	Phantom	Twin Phantom	1765	N.C.R	N.C.R
SPEAG	Phantom	ELI V5.0	1208	N.C.R	N.C.R
SPEAG	Phone Positioner	N/A	N/A	N.C.R	N.C.R
Stäubli	Robot	TX60L	F13/5P6VB1/A/01	N.C.R	N.C.R
KEYSIGHT	UXM 5G Wireless Test Platform	E7515B	MY60192444	10.27.2021	10.26.2022
Anritsu	Universal Radio Communication Analyzer	MT8820C	WXJ008-5	03.03.2021	03.02.2023
R&S	Universal Radio Communication Tester	CMU200	WXJ008-2	03.30.2022	03.29.2024
KEYSIGHT	Network Analyzer	E5071C	WXJ091	03.30.2022	03.29.2023
KEYSIGHT	EPM Series Power Meter	N1914A	WXJ075	06.29.2022	06.28.2023
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-1	06.29.2022	06.28.2023
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-2	06.29.2022	06.28.2023
KEYSIGHT	Signal Generator	N5173B	WXJ006-3	06.29.2022	06.28.2023
Huber Suhner	RF Cable	SUCOFLEX	12341	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	17268	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	2080	See Note 3	
Weinschel	Attenuator	23-3-34	BL5513	See Note 3	
Anritsu	Directional Coupler	MP654A	100217491	See Note 3	
SPEAG	Dielectric Assessment Kit	3.5 Probe	1119	See Note 4	
SPEAG	DAK Measurement Software	DAK	Version: DAK 3.5	N.C.R	
TXC	Broadband Amplifier	BBA018000	WXG008-11	See Note 5	

Note:

- The calibration certificate of DASY can be referred to appendix C of this report.
- Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
- The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Speag.
- In system check we need to monitor the level on the spectrum analyzer, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1 W input power according to the ratio of 1

W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the spectrum analyzer is critical and we do have calibration for it

6. Attenuator insertion loss is calibrated by the network Analyzer, which the calibration is valid, before system check.
7. N.C.R means No Calibration Requirement.

9 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, 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, which is shown in Fig. 9.1, for body SAR testing, the liquid height from the center of the flat phantom to liquid top surface is larger than 15 cm, which is shown in Fig. 9.2.

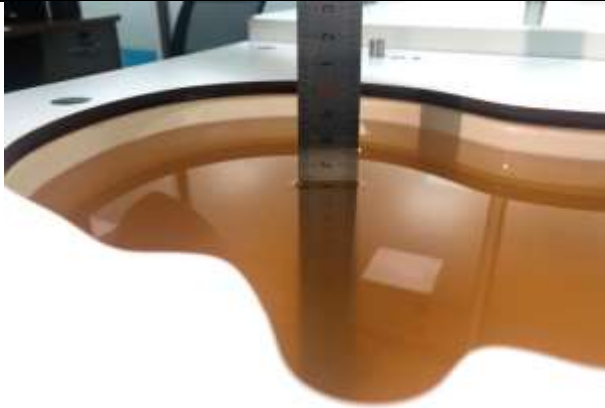


Fig. 9.1 Photo of Liquid Height for Head SAR

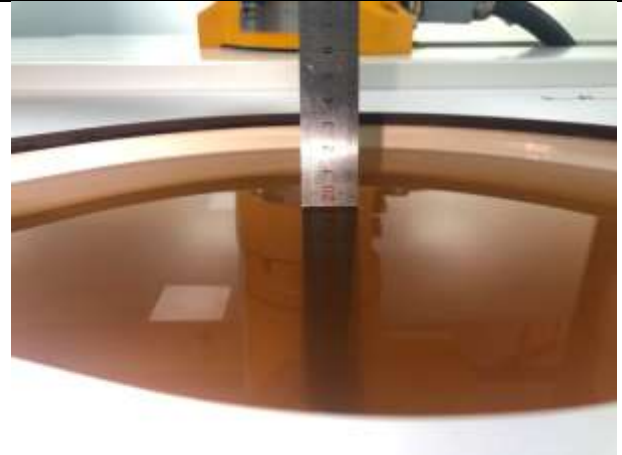


Fig. 9.2 Photo of Liquid Height for Body SAR

The relative permittivity and conductivity of the tissue material should be within $\pm 5\%$ of the values given in the table below recommended by the FCC OET 65 supplement C and RSS 102 Issue 5.

Target Frequency (MHz)	ϵ_r	σ (S/m)
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
835	41.5	0.90
900	41.5	0.97
915	41.5	0.98
1450	40.5	1.20
1610	40.3	1.29
1800-2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5800	35.3	5.27

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

The dielectric parameters of liquids were verified prior to the SAR evaluation using a Speag Dielectric Probe Kit and an Agilent Network Analyzer.

The following table shows the measuring results for simulating liquid.

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target(σ)	Permittivity Target(ϵ_r)	Delta (σ)%	Delta (ϵ_r)%	Limit (%)	Date (mm/dd/yy)
750	21.1	0.89	40.20	0.89	41.90	0.00	-4.06	±5	08.17.2022
835	21.1	0.92	39.97	0.90	41.50	2.22	-3.69	±5	08.18.2022
1750	21	1.33	38.24	1.37	40.10	-3.21	-4.64	±5	07.29.2022
1900	21	1.37	38.26	1.40	40.00	-2.14	-4.35	±5	08.01.2022
2450	21.5	1.72	37.56	1.80	39.20	-4.44	-4.18	±5	08.04.2022
2600	21.5	1.87	37.27	1.96	39.00	-4.59	-4.44	±5	08.09.2022
3500	21.3	2.90	36.67	2.91	37.90	-0.34	-3.25	±5	07.22.2022
3700	21.3	3.09	36.37	3.12	37.70	-1.12	-3.53	±5	07.26.2022
5200	21.2	4.78	35.85	4.67	35.74	2.31	0.30	±5	08.12.2022
5800	21.2	5.47	34.85	5.27	35.30	3.80	-1.27	±5	08.15.2022

10 SAR System Verification

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

➤ Purpose of System Performance check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

➤ 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 that comes from a signal generator. 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 equipment setup is shown below:

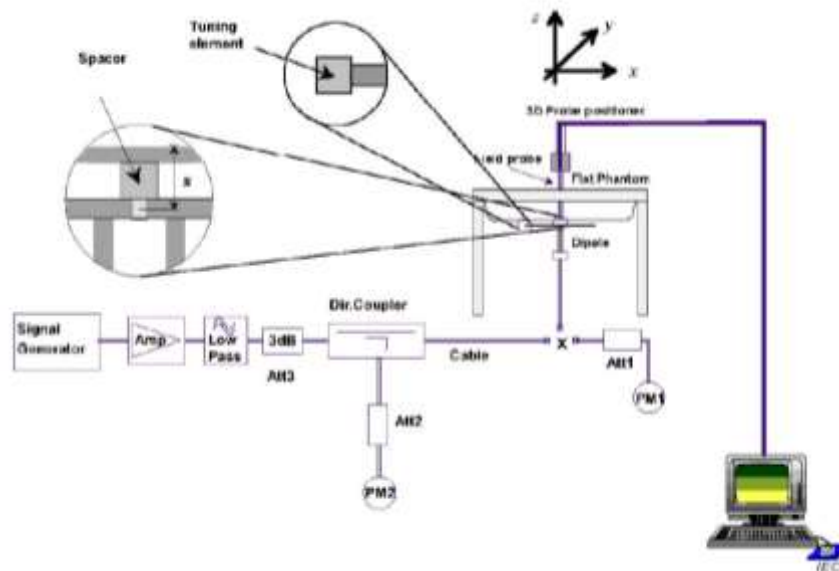


Fig.10.1 System Verification Setup Diagram

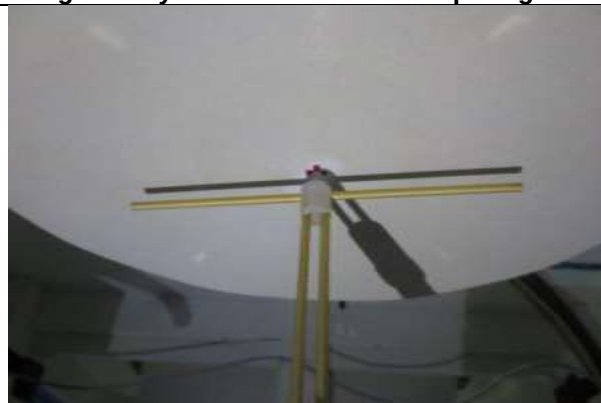


Fig.10.2 Photo of Dipole setup

➤

➤ System Verification Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix C of this report.

Date (mm/dd/yy)	Frequency (MHz)	Power fed onto dipole (mW)	Measured 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Target 1g SAR (W/kg)	Deviation (%)
08.17.2022	750	80	0.688	8.60	8.37	2.75
08.18.2022	835	80	0.768	9.60	9.49	1.16
07.29.2022	1750	40	1.450	36.25	36.4	-0.41
08.01.2022	1900	40	1.610	40.25	39.4	2.16
08.04.2022	2450	40	2.120	53.00	52.6	0.76
08.09.2022	2600	40	2.230	55.75	56.3	-0.98
07.22.2022	3500	40	2.710	67.75	65.6	3.28
07.26.2022	3700	40	2.680	67.00	66.1	1.36
08.12.2022	5200	40	3.110	77.75	79.10	-1.71
08.15.2022	5800	40	3.160	79.00	80.90	-2.35

11 EUT Testing Position

This EUT was tested in nine different positions. They are right cheek/right tilted/left cheek/left tilted for head, Front/Back/Right Side/Top Side of the EUT with phantom 10 mm gap, as illustrated below, please refer to Appendix B for the test setup photos.

11.1 Handset Reference Points

- The vertical centreline 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.
- The horizontal line is perpendicular to the vertical centreline and passes the center of the acoustic output. The horizontal line is also tangential to the handset at point A.
- 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 centreline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Fig.11.1 Illustration for Front, Back and Side of SAM Phantom

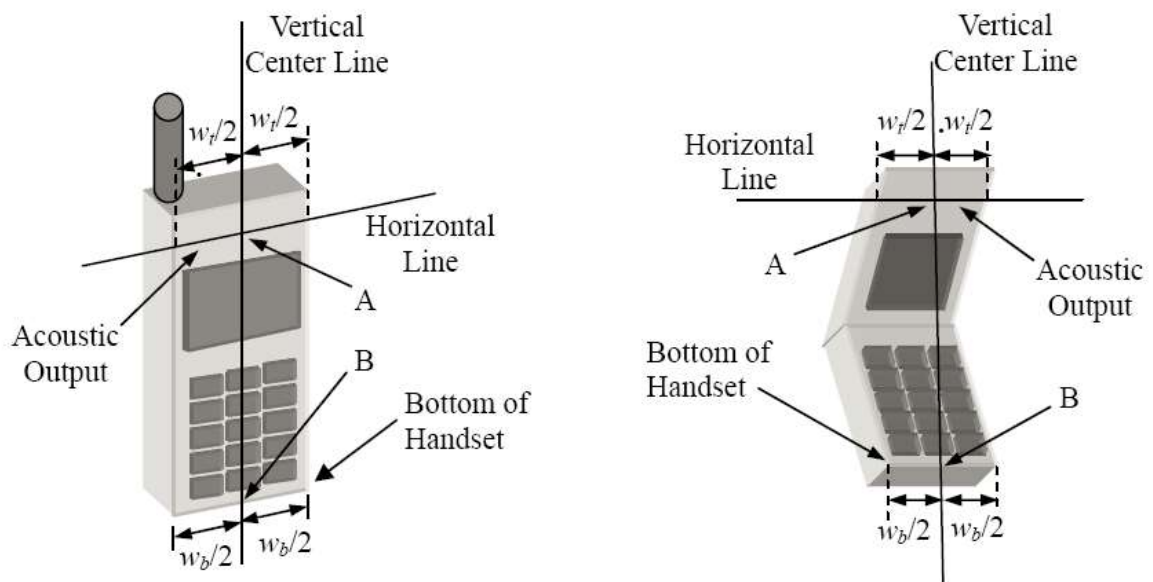


Fig. 11.2 Illustration for Handset Vertical and Horizontal Reference Lines

11.2 Positioning for Cheek / Touch

- 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.
- 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 figure)



Fig. 11.3 Illustration for Cheek Position

11.3 Positioning for Ear / 15° Tilt

- To position the device in the “cheek” position described above.
- 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 figure below).



Fig.11.4 Illustration for Tilted Position

11.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR locations identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

11.5 Body Worn Accessory Configurations

- To position the device parallel to the phantom surface with either keypad up or down.
- To adjust the device parallel to the flat phantom.
- To adjust the distance between the device surface and the flat phantom to 10 mm or holster surface and the flat phantom to 0 mm.

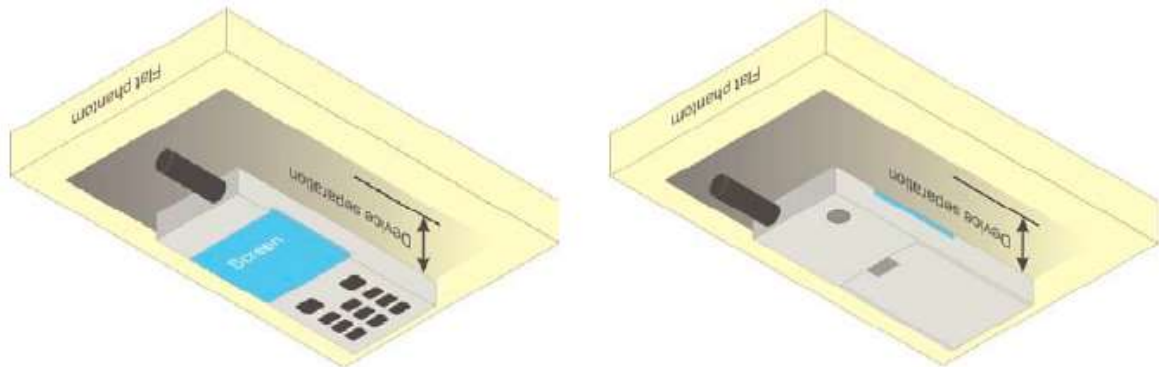


Fig.11.5 Illustration for Body Worn Position

11.6 Wireless Router (Hotspot) Configurations

Some battery-operated handsets have the capability to transmit and receive internet connectivity through simultaneous transmission of WIFI in conjunction with a separate licensed transmitter. The FCC has provided guidance in KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. Therefore, SAR must be evaluated for each frequency transmission and mode separately and summed with the WIFI transmitter according to KDB 648474 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

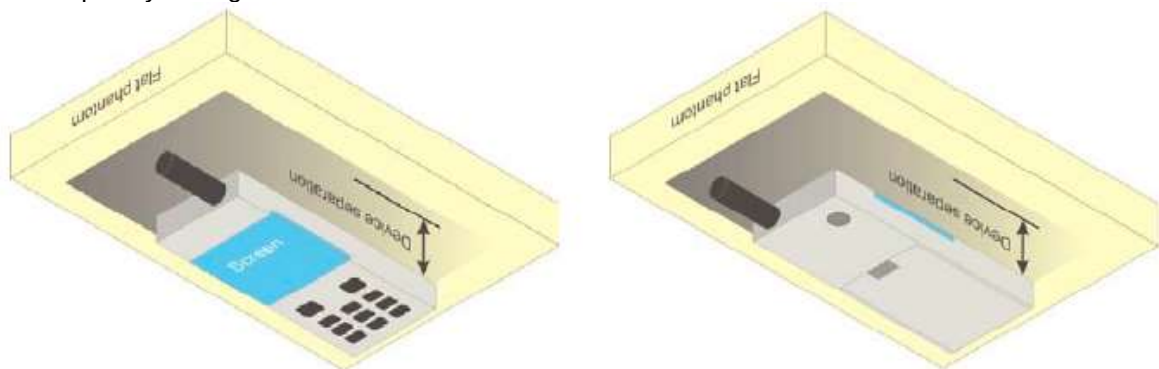


Fig.11.6 Illustration for Hotspot Position

12 Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- Connect EUT RF port through RF cable to the power meter or spectrum analyzer, and measure WLAN/BT output power.

<Conducted power measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- Place the EUT in positions as Appendix B demonstrates.
- Set scan area, grid size and other setting on the DASY software.
- Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band.
- Measure SAR results for other channels in worst SAR testing position if the Reported SAR or 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:

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

12.1 Spatial Peak SAR Evaluation

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

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

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

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

12.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement 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. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

12.3 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 is performed around the highest E-field value to determine the averaged SAR-distribution over 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
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	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
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 draft standard IEEE P1528-2011 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 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.				

12.4 Volume Scan Procedures

The volume scan is used to 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 remains in the same test position for all measurements and all volume scans use the same spatial resolution and grid spacing. When all volume scans are completed, the software, SEMCAD post-processor scan combines and subsequently superposes these measurement data to calculate the multiband SAR.

12.5 SAR Averaged Methods

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

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

12.6 Power Drift Monitoring

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

13 Conducted RF Output Power

13.1 GSM Conducted Power

Band: GSM 850	Burst Average Power (dBm)			Frame-Average Power(dBm)		
Channel	128	190	251	128	190	251
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8
GSM (GMSK, Voice)	33.79	33.91	33.86	24.76	24.88	24.83
GPRS (GMSK, 1 TX slot)	33.83	33.84	33.79	24.80	24.81	24.76
GPRS (GMSK, 2 TX slots)	32.94	33.00	32.94	26.92	26.98	26.92
GPRS (GMSK, 3 TX slots)	31.03	31.11	31.06	26.77	26.85	26.80
GPRS (GMSK, 4 TX slots)	29.96	30.05	29.99	26.95	27.04	26.98
EGPRS (8PSK, 1 TX slot)	27.64	27.73	27.58	18.61	18.70	18.55
EGPRS (8PSK, 2 TX slots)	26.51	26.60	26.51	20.49	20.58	20.49
EGPRS (8PSK, 3 TX slots)	24.35	24.52	24.61	20.09	20.26	20.35
EGPRS (8PSK, 4 TX slots)	23.33	23.53	23.38	20.32	20.52	20.37

Remark:

- The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
The duty cycle "x" of different time slots as below:
1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
Based on the calculation formula:
Frame-averaged power = Burst averaged power + 10 log (x)
So,
Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
- CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 850 Voice mode.
- For Body worn SAR testing and Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 4 TX slots mode due to the highest frame-averaged power.
- For GPRS multi time slots SAR measurement, when the measured maximum output power levels are within 0.25 dB of each other, test the configuration with the most number of time slots.
- Per KDB447498 D04v01, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- The EUT do not support DTM and VoIP function.

Band: PCS 1900	Burst Average Power (dBm)			Frame-Average Power(dBm)		
Channel	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (GMSK, Voice)	30.96	30.60	30.34	21.93	21.57	21.31
GPRS (GMSK, 1 TX slot)	30.97	30.60	30.34	21.94	21.57	21.31
GPRS (GMSK, 2 TX slots)	30.01	29.67	29.44	23.99	23.65	23.42
GPRS (GMSK, 3 TX slots)	27.94	27.61	27.44	23.68	23.35	23.18
GPRS (GMSK, 4 TX slots)	26.87	26.60	26.42	23.86	23.59	23.41
EGPRS (8PSK, 1 TX slot)	26.31	26.09	26.10	17.28	17.06	17.07
EGPRS (8PSK, 2 TX slots)	25.10	25.03	25.06	19.08	19.01	19.04
EGPRS (8PSK, 3 TX slots)	23.14	23.06	23.11	18.88	18.80	18.85
EGPRS (8PSK, 4 TX slots)	22.03	21.94	21.97	19.02	18.93	18.96

Remark:

- The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
The duty cycle "x" of different time slots as below:
1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
Based on the calculation formula:
Frame-averaged power = Burst averaged power + 10 log (x)
So,
Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
- CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 1900 Voice mode.
- For Body worn SAR testing and Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
- Per KDB447498 D04v01, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- The EUT do not support DTM and VoIP function.

13.2 WCDMA Conducted Power

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table 1

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.
 Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSDPA Sub-test setup configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table 2

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

HSUPA Sub-test setup configuration

WCDMA Conducted Power:

WCDMA Average power (dBm)			
Band	WCDMA Band II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
AMR 12.2 kbps	24.34	24.26	24.22
RMC 12.2 kbps	24.27	24.22	24.20
HSDPA Sub-test 1	23.30	23.22	23.17
HSDPA Sub-test 2	22.76	22.67	22.62
HSDPA Sub-test 3	22.79	22.71	22.65
HSDPA Sub-test 4	22.74	22.72	22.66
HSUPA Sub-test 1	21.23	21.14	21.08
HSUPA Sub-test 2	21.73	21.66	21.60
HSUPA Sub-test 3	22.25	22.14	22.10
HSUPA Sub-test 4	21.25	21.17	21.12
HSUPA Sub-test 5	23.24	23.16	23.10

WCDMA Average power (dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
AMR 12.2 kbps	23.22	23.14	23.15
RMC 12.2 kbps	23.19	23.22	23.20
HSDPA Sub-test 1	22.19	22.18	22.21
HSDPA Sub-test 2	21.69	21.71	21.71
HSDPA Sub-test 3	21.76	21.75	21.74
HSDPA Sub-test 4	21.70	21.67	21.68
HSUPA Sub-test 1	20.17	20.15	20.14
HSUPA Sub-test 2	20.68	20.64	20.66
HSUPA Sub-test 3	21.19	21.15	21.18
HSUPA Sub-test 4	20.17	20.15	20.17
HSUPA Sub-test 5	22.20	22.17	22.21

WCDMA Average power (dBm)			
Band	WCDMA Band V		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
AMR 12.2 kbps	22.89	23.12	23.03
RMC 12.2 kbps	22.79	23.01	22.95
HSDPA Sub-test 1	22.05	22.26	22.15
HSDPA Sub-test 2	21.53	21.74	21.67
HSDPA Sub-test 3	21.59	21.79	21.68
HSDPA Sub-test 4	21.55	21.77	21.68
HSUPA Sub-test 1	20.04	20.26	20.17
HSUPA Sub-test 2	20.55	20.78	20.68
HSUPA Sub-test 3	21.05	21.29	21.19
HSUPA Sub-test 4	20.07	20.30	20.20
HSUPA Sub-test 5	22.08	22.28	22.20

Note:

- Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1
- Per KDB 941225 D01, RMC 12.2kbps mode is used to evaluate SAR due the highest output power. If AMR 12.2 kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2 kbps can be excluded.
- AMR, HSDPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.

13.3 LTE Conducted Power

13.3.1 Largest channel bandwidth standalone SAR test requirements

QPSK with 1 RB allocation

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 offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.⁸ When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

QPSK with 50% RB allocation

The procedures required for 1 RB allocation in section 4.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.⁹

QPSK with 100% RB allocation

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 in sections 4.2.1 and 4.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 4.2.1, 5.2.2 and 4.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

13.3.2 Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 4.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth. For example, 50 RB in 10 MHz channel bandwidth does not apply to 5 MHz channel bandwidth; therefore, this cannot be tested in the smaller channel bandwidth. However, 50% RB allocation in 10 MHz channel bandwidth is equivalent to 100% RB allocation in 5 MHz channel bandwidth; therefore, these are the equivalent configurations to be compared to determine the specific channel and configuration in the smaller channel bandwidth that need SAR testing.

13.3.3 TDD LTE configuration setup for SAR measurement

According to KDB 941225 D05v02r03 and April 2013 TCB workshop slides, SAR must be tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- see 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions and must be taken into consideration to determine the transmission duty factor
 - according to the worst case uplink and downlink cyclic prefix requirements for UpPTS to determine the highest SAR test duty factor

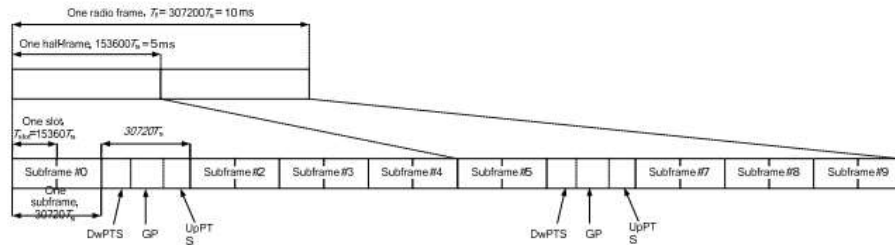


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Per 3GPP 36.211 section 4.2, each radio frame of length $T_F=37200 \cdot T_s = 10$ ms consists of two half-frames of length $153600 \cdot T_s = 5$ ms each. Each half-frame consists of five subframes of length $30720 \cdot T_s = 1$ ms. So, the uplink duty factor in special subframe as below:

Special Subframe configuration	Normal cyclic prefix in downlink		Extended cyclic prefix in downlink	
	Duty factor of Uplink		Duty factor of Uplink	
	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	7.14%	8.33%	7.14%	8.33%
1	7.14%	8.33%	7.14%	8.33%
2	7.14%	8.33%	7.14%	8.33%
3	7.14%	8.33%	7.14%	8.33%
4	7.14%	8.33%	14.27%	16.67%
5	14.27%	16.67%	14.27%	16.67%
6	14.27%	16.67%	14.27%	16.67%
7	14.27%	16.67%	14.27%	16.67%
8	14.27%	16.67%	/	/
9	14.27%	16.67%	/	/

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

According to above table:

1. The highest duty factor is configuration 0;
2. The duty factor of uplink in one half-frame with normal cyclic prefix is: $(3\text{ms} + 0.143\text{ms})/5\text{ms}=62.86\%$;
3. The duty factor of uplink in one half-frame with extended cyclic prefix is: $(3\text{ms} + 0.167\text{ms})/5\text{ms}=63.34\%$;
4. For purpose to get the worst case SAR test duty factor, the duty factor of normal cyclic prefix in uplink scaled-up to the extended cyclic prefix in uplink, the scaling factor is $63.34\%/62.86\%=1.008$, and the scaling factor will be taken into the final measured SAR.

LTE Band 2 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
Band 2	1.4	QPSK	1	0	23.33	23.34	23.03
			1	2	23.28	23.27	23.04
			1	5	23.31	23.32	23.06
			3	0	23.44	23.41	23.16
			3	1	23.44	23.42	23.17
			3	2	23.46	23.40	23.14
			6	0	22.45	22.37	22.27
		16QAM	1	0	22.44	22.51	22.09
			1	2	22.52	22.59	22.13
			1	5	22.43	22.56	22.08
			3	0	22.42	22.32	22.20
			3	1	22.41	22.32	22.18
			3	2	22.41	22.34	22.19
			6	0	21.54	21.24	21.25
		64QAM	1	0	21.75	21.87	21.28
			1	2	21.78	21.69	21.41
			1	5	21.28	21.47	20.71
			3	0	21.74	21.42	21.29
			3	1	21.56	21.12	21.62
			3	2	21.46	21.69	21.43
			6	0	20.69	20.19	20.40

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
Band 2	3	QPSK	1	0	23.53	23.35	23.13
			1	7	23.52	23.34	23.06
			1	14	23.51	23.39	23.10
			8	0	22.43	22.42	22.28
			8	4	22.44	22.42	22.29
			8	7	22.45	22.40	22.30
			15	0	22.45	22.37	22.30
		16QAM	1	0	22.71	22.62	22.12
			1	7	22.66	22.56	22.12
			1	14	22.66	22.58	22.15
			8	0	21.50	21.44	21.29
			8	4	21.52	21.43	21.30
			8	7	21.51	21.37	21.29
			15	0	21.49	21.32	21.25
		64QAM	1	0	21.89	21.16	21.05
			1	7	21.36	21.58	21.14
			1	14	21.69	21.91	21.35
			8	0	20.74	20.24	20.64
			8	4	20.07	20.51	19.86
			8	7	20.43	20.45	20.50
			15	0	20.28	20.38	19.89

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
Band 2	5	QPSK	1	0	23.59	23.53	23.44
			1	12	23.58	23.53	23.42
			1	24	23.64	23.54	23.49
			12	0	22.51	22.43	22.35
			12	6	22.47	22.43	22.33
			12	11	22.47	22.44	22.32
			25	0	22.45	22.43	22.28
		16QAM	1	0	22.48	22.66	22.36
			1	12	22.45	22.65	22.30
			1	24	22.44	22.69	22.36
			12	0	21.51	21.47	21.34
			12	6	21.53	21.47	21.33
			12	11	21.54	21.47	21.33
			25	0	21.52	21.40	21.35
		64QAM	1	0	21.03	21.16	20.96
			1	12	21.57	21.41	21.78
			1	24	20.23	19.99	21.29
			12	0	20.19	20.47	20.16
			12	6	20.82	20.69	20.71
			12	11	20.44	20.76	20.39
			25	0	21.16	19.95	20.35

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
Band 2	10	QPSK	1	0	23.53	23.37	23.18
			1	24	23.53	23.40	23.23
			1	49	23.41	23.37	23.17
			25	0	22.44	22.46	22.35
			25	12	22.46	22.47	22.35
			25	24	22.46	22.47	22.36
			50	0	22.44	22.47	22.35
		16QAM	1	0	22.66	22.59	22.18
			1	24	22.68	22.65	22.15
			1	49	22.59	22.60	22.23
			25	0	21.45	21.48	21.40
			25	12	21.45	21.52	21.40
			25	24	21.45	21.47	21.42
			50	0	21.42	21.44	21.33
		64QAM	1	0	21.55	21.74	21.38
			1	24	21.46	21.28	20.70
			1	49	21.23	21.30	21.49
			25	0	20.30	20.81	19.95
			25	12	20.19	20.66	20.76
			25	24	20.08	20.08	20.69
			50	0	20.29	20.56	19.93

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
Band 2	15	QPSK	1	0	23.45	23.27	23.18
			1	37	23.42	23.36	23.20
			1	74	23.29	23.30	23.15
			36	0	22.37	22.38	22.36
			36	16	22.41	22.40	22.37
			36	35	22.38	22.41	22.33
			75	0	22.34	22.45	22.33
		16QAM	1	0	22.60	22.59	22.21
			1	37	22.63	22.67	22.16
			1	74	22.48	22.64	22.19
			36	0	21.40	21.46	21.36
			36	16	21.39	21.47	21.35
			36	35	21.39	21.48	21.35
			75	0	21.31	21.43	21.32
		64QAM	1	0	21.28	21.59	21.33
			1	37	21.67	21.75	21.24
			1	74	21.97	21.26	21.58
			36	0	20.70	20.52	20.53
			36	16	20.05	20.21	20.19
			36	35	20.81	20.45	19.95
			75	0	20.44	20.37	20.05

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
Band 2	20	QPSK	1	0	23.49	23.32	23.13
			1	49	23.57	23.44	23.13
			1	99	23.40	23.33	23.07
			50	0	22.42	22.41	22.44
			50	24	22.40	22.39	22.42
			50	49	22.39	22.39	22.42
			100	0	22.39	22.44	22.33
		16QAM	1	0	22.47	22.61	22.32
			1	49	22.54	22.79	22.41
			1	99	22.29	22.70	22.34
			50	0	21.36	21.44	21.46
			50	24	21.35	21.40	21.44
			50	49	21.37	21.41	21.43
			100	0	21.34	21.41	21.34
		64QAM	1	0	21.57	21.81	21.42
			1	49	21.76	21.80	21.74
			1	99	21.18	21.65	21.45
			50	0	20.58	20.55	20.86
			50	24	20.34	20.38	20.52
			50	49	20.22	20.87	20.61
			100	0	20.39	20.26	20.18

LTE Band 5 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
Band 5	1.4	QPSK	1	0	23.26	23.54	23.40
			1	2	23.22	23.48	23.30
			1	5	23.29	23.49	23.34
			3	0	23.27	23.61	23.52
			3	1	23.29	23.59	23.51
			3	2	23.28	23.58	23.54
			6	0	22.48	22.76	22.68
		16QAM	1	0	22.31	22.80	22.82
			1	2	22.38	22.85	22.84
			1	5	22.37	22.78	22.78
			3	0	22.40	22.73	22.60
			3	1	22.42	22.75	22.60
			3	2	22.39	22.74	22.59
			6	0	21.48	21.85	21.53
		64QAM	1	0	21.55	21.88	21.38
			1	2	21.22	21.80	20.68
			1	5	20.94	21.75	20.27
			3	0	21.57	22.02	22.15
			3	1	21.38	21.41	22.19
			3	2	21.10	21.24	21.67
			6	0	20.41	21.34	19.45

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
Band 5	3	QPSK	1	0	23.35	23.49	23.45
			1	7	23.37	23.53	23.39
			1	14	23.43	23.53	23.34
			8	0	22.49	22.81	22.68
			8	4	22.48	22.75	22.70
			8	7	22.51	22.79	22.64
			15	0	22.51	22.77	22.70
		16QAM	1	0	22.73	22.92	22.58
			1	7	22.75	22.93	22.49
			1	14	22.75	22.92	22.52
			8	0	21.56	21.75	21.69
			8	4	21.56	21.71	21.69
			8	7	21.60	21.81	21.67
			15	0	21.52	21.70	21.66
		64QAM	1	0	21.58	21.91	21.92
			1	7	22.06	22.15	21.19
			1	14	21.90	21.97	21.67
			8	0	20.92	20.70	20.74
			8	4	20.58	20.94	20.28
			8	7	20.25	21.13	20.40
			15	0	20.50	20.99	20.59

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
Band 5	5	QPSK	1	0	23.53	23.81	23.81
			1	12	23.53	23.74	23.71
			1	24	23.56	23.77	23.67
			12	0	22.51	22.78	22.78
			12	6	22.55	22.77	22.76
			12	11	22.52	22.79	22.81
			25	0	22.54	22.83	22.76
		16QAM	1	0	22.56	23.05	22.87
			1	12	22.54	23.03	22.79
			1	24	22.62	23.06	22.75
			12	0	21.53	21.84	21.81
			12	6	21.54	21.83	21.82
			12	11	21.53	21.84	21.79
			25	0	21.59	21.82	21.76
		64QAM	1	0	21.68	21.83	22.17
			1	12	21.76	21.93	21.55
			1	24	22.08	22.16	21.61
			12	0	20.83	20.91	21.19
			12	6	20.94	20.83	20.37
			12	11	20.21	20.81	20.63
			25	0	20.72	20.40	20.36

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20450	20525	20600
					829MHz	836.5MHz	844MHz
Band 5	10	QPSK	1	0	23.35	23.47	23.58
			1	24	23.43	23.63	23.53
			1	49	23.59	23.58	23.49
			25	0	22.53	22.82	22.76
			25	12	22.53	22.88	22.79
			25	24	22.51	22.83	22.77
			50	0	22.60	22.88	22.79
		16QAM	1	0	22.71	22.83	22.69
			1	24	22.75	22.98	22.61
			1	49	22.92	22.96	22.60
			25	0	21.52	21.88	21.80
			25	12	21.53	21.88	21.80
			25	24	21.53	21.90	21.84
			50	0	21.53	21.85	21.79
		64QAM	1	0	21.42	21.39	21.31
			1	24	21.47	21.61	21.51
			1	49	21.44	21.60	21.23
			25	0	20.04	20.55	20.69
			25	12	20.27	20.57	20.34
			25	24	20.78	20.76	20.53
			50	0	20.87	20.42	20.13

LTE Band 7 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20775	21100	21425
					2502.5MHz	2535MHz	2567.5MHz
Band 7	5	QPSK	1	0	22.63	22.53	22.58
			1	12	22.55	22.51	22.59
			1	24	22.55	22.51	22.63
			12	0	21.43	21.41	21.51
			12	6	21.41	21.39	21.49
			12	11	21.42	21.39	21.52
			25	0	21.43	21.37	21.51
		16QAM	1	0	21.48	21.62	21.54
			1	12	21.38	21.66	21.56
			1	24	21.39	21.69	21.52
			12	0	20.43	20.48	20.52
			12	6	20.45	20.46	20.55
			12	11	20.45	20.44	20.54
			25	0	20.46	20.35	20.53
		64QAM	1	0	20.49	20.08	20.16
			1	12	20.62	20.48	20.68
			1	24	20.34	20.17	20.38
			12	0	19.20	19.40	19.00
			12	6	19.51	19.23	19.64
			12	11	19.28	19.41	18.93
			25	0	18.99	19.45	19.41

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20800	21100	21400
					2505MHz	2535MHz	2565MHz
Band 7	10	QPSK	1	0	22.52	22.35	22.42
			1	24	22.46	22.43	22.43
			1	49	22.46	22.37	22.41
			25	0	21.43	21.48	21.52
			25	12	21.37	21.44	21.49
			25	24	21.39	21.46	21.51
			50	0	21.43	21.46	21.50
		16QAM	1	0	21.66	21.61	21.32
			1	24	21.59	21.65	21.36
			1	49	21.62	21.60	21.36
			25	0	20.39	20.48	20.57
			25	12	20.43	20.50	20.53
			25	24	20.38	20.49	20.58
			50	0	20.41	20.47	20.45
		64QAM	1	0	20.60	20.64	20.50
			1	24	20.39	20.05	19.77
			1	49	20.41	20.20	20.11
			25	0	19.54	19.67	19.87
			25	12	19.33	19.39	19.51
			25	24	19.06	19.11	19.83
			50	0	19.30	19.47	19.21

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20825	21100	21375
					2507.5MHz	2535MHz	2562.5MHz
Band 7	15	QPSK	1	0	22.41	22.30	22.36
			1	37	22.45	22.37	22.42
			1	74	22.35	22.30	22.38
			36	0	21.35	21.37	21.41
			36	16	21.38	21.35	21.43
			36	35	21.33	21.37	21.42
			75	0	21.38	21.37	21.44
		16QAM	1	0	21.57	21.63	21.28
			1	37	21.63	21.72	21.37
			1	74	21.48	21.64	21.29
			36	0	20.34	20.47	20.40
			36	16	20.33	20.45	20.41
			36	35	20.34	20.44	20.38
			75	0	20.33	20.38	20.44
		64QAM	1	0	20.23	20.77	20.31
			1	37	20.60	20.21	19.88
			1	74	20.65	20.61	19.87
			36	0	19.58	19.79	18.99
			36	16	19.08	18.90	19.22
			36	35	19.41	18.89	19.69
			75	0	18.86	19.69	19.25

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20850	21100	21350
					2510MHz	2535MHz	2560MHz
Band 7	20	QPSK	1	0	22.48	22.32	22.20
			1	49	22.57	22.45	22.30
			1	99	22.46	22.34	22.26
			50	0	21.33	21.44	21.47
			50	24	21.35	21.42	21.47
			50	49	21.37	21.41	21.46
			100	0	21.41	21.35	21.40
		16QAM	1	0	21.44	21.57	21.36
			1	49	21.55	21.69	21.49
			1	99	21.43	21.65	21.46
			50	0	20.33	20.41	20.49
			50	24	20.32	20.44	20.48
			50	49	20.32	20.45	20.44
			100	0	20.38	20.32	20.43
		64QAM	1	0	20.46	20.19	20.80
			1	49	20.17	20.43	20.18
			1	99	20.80	21.07	20.48
			50	0	19.05	19.15	19.80
			50	24	19.04	19.87	19.96
			50	49	18.81	19.09	19.69
			100	0	19.09	18.83	19.23

LTE Band 41 part:

LTE Band	Band-width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					39675	40148	40620	41093	41565
					2498.5MHz	2545.5MHz	2593.0MHz	2640.3MHz	2687.5MHz
Band 41	5	QPSK	1	0	22.43	22.24	22.55	22.34	22.04
			1	12	22.39	22.20	22.49	22.29	22.00
			1	24	22.43	22.22	22.54	22.33	22.01
			12	0	21.49	21.28	21.49	21.35	21.07
			12	6	21.49	21.28	21.43	21.33	21.07
			12	11	21.50	21.28	21.42	21.32	21.05
			25	0	21.43	21.24	21.44	21.31	21.05
		16QAM	1	0	21.65	21.48	21.84	21.60	21.31
			1	12	21.62	21.46	21.78	21.56	21.29
			1	24	21.64	21.46	21.80	21.57	21.28
			12	0	20.41	20.24	20.42	20.30	20.07
			12	6	20.38	20.22	20.42	20.29	20.06
			12	11	20.41	20.23	20.36	20.27	20.05
			25	0	20.40	20.22	20.40	20.28	20.03
		64QAM	1	0	20.75	20.56	21.32	20.81	20.36
			1	12	20.95	20.71	20.47	20.63	20.46
			1	24	20.80	20.72	20.53	20.66	20.64
			12	0	19.50	19.16	19.57	19.29	18.81
			12	6	19.33	19.09	19.36	19.18	18.84
			12	11	19.33	19.15	19.63	19.31	18.97
			25	0	19.63	19.29	19.15	19.24	18.95

LTE Band	Band-width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					39700	40160	40620	41080	41540
					2501.0MHz	2547.0MHz	2593.0MHz	2639.0MHz	2685.0MHz
Band 41	10	QPSK	1	0	22.38	22.21	22.42	22.28	22.04
			1	24	22.42	22.26	22.46	22.32	22.09
			1	49	22.39	22.20	22.39	22.26	22.01
			25	0	21.45	21.25	21.46	21.32	21.05
			25	12	21.45	21.22	21.44	21.29	20.98
			25	24	21.45	21.24	21.45	21.31	21.02
			50	0	21.48	21.26	21.50	21.34	21.03
		16QAM	1	0	21.77	21.36	21.76	21.49	20.95
			1	24	21.79	21.39	21.81	21.53	20.99
			1	49	21.77	21.37	21.74	21.49	20.96
			25	0	20.51	20.25	20.51	20.33	19.98
			25	12	20.52	20.28	20.53	20.36	20.04
			25	24	20.50	20.25	20.48	20.32	19.99
			50	0	20.38	20.20	20.43	20.28	20.02
		64QAM	1	0	20.98	20.38	20.52	20.42	19.77
			1	24	20.45	20.06	20.82	20.31	19.67
			1	49	21.02	20.41	20.75	20.52	19.79
			25	0	19.74	19.49	19.17	19.38	19.23
			25	12	19.07	19.21	19.24	19.22	19.34
			25	24	19.45	19.17	19.79	19.38	18.89
			50	0	19.13	19.17	19.70	19.35	19.21

LTE Band	Band-width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					39725	40173	40620	41068	41515
					2503.5MHz	2548.5MHz	2593.0MHz	2637.8MHz	2682.5MHz
Band 41	15	QPSK	1	0	21.45	21.79	22.42	22.00	22.12
			1	37	22.45	22.30	22.46	22.35	22.15
			1	74	22.36	22.22	22.35	22.26	22.07
			36	0	21.41	21.25	21.43	21.31	21.09
			36	16	21.35	21.19	21.44	21.27	21.03
			36	35	21.34	21.21	21.44	21.29	21.08
			75	0	21.41	21.26	21.46	21.33	21.11
		16QAM	1	0	21.41	21.27	21.76	21.43	21.13
			1	37	21.54	21.32	21.81	21.48	21.10
			1	74	21.36	21.19	21.71	21.36	21.01
			36	0	20.38	20.23	20.42	20.29	20.07
			36	16	20.34	20.21	20.43	20.28	20.08
			36	35	20.36	20.22	20.41	20.28	20.07
			75	0	20.35	20.23	20.41	20.29	20.11
		64QAM	1	0	20.66	20.20	21.16	20.52	19.73
			1	37	20.34	20.15	20.92	20.40	19.95
			1	74	20.25	20.04	20.80	20.29	19.83
			36	0	19.71	19.50	19.06	19.35	19.28
			36	16	19.47	19.05	19.85	19.32	18.63
			36	35	19.35	19.05	19.68	19.26	18.75
			75	0	19.24	19.19	19.73	19.37	19.14

LTE Band	Band-width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					39750	40185	40620	41055	41490
					2506.0MHz	2549.5MHz	2593.0MHz	2636.5MHz	2680.0MHz
Band 41	20	QPSK	1	0	22.23	22.14	22.37	22.22	22.05
			1	49	22.39	22.25	22.44	22.31	22.11
			1	99	22.21	22.12	22.31	22.18	22.02
			50	0	21.34	21.23	21.40	21.28	21.11
			50	24	21.38	21.25	21.42	21.30	21.11
			50	49	21.38	21.25	21.42	21.30	21.11
			100	0	21.34	21.23	21.45	21.30	21.11
		16QAM	1	0	21.44	21.08	21.55	21.23	20.71
			1	49	21.56	21.18	21.67	21.34	20.79
			1	99	21.42	21.05	21.53	21.21	20.68
			50	0	20.33	20.22	20.42	20.28	20.10
			50	24	20.31	20.23	20.42	20.29	20.14
			50	49	20.32	20.20	20.39	20.26	20.08
			100	0	20.33	20.23	20.46	20.30	20.12
		64QAM	1	0	20.39	20.05	20.07	20.06	19.71
			1	49	20.48	20.19	20.90	20.43	19.90
			1	99	20.12	19.80	20.37	19.99	19.48
			50	0	19.47	19.34	19.04	19.24	19.21
			50	24	18.87	18.95	19.10	19.00	19.03
			50	49	19.01	19.09	19.56	19.24	19.16
			100	0	19.34	19.24	19.11	19.19	19.13

Note:

1. Per KDB 447498 D01v05r02 section 4.1, 6), the required test channels number is 5 for LTE Band 41.

LTE Band 66 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131979	132322	132665
					1710.70MHz	1745.00MHz	1779.3MHz
Band 66	1.4	QPSK	1	0	23.27	23.47	23.42
			1	2	23.30	23.43	23.42
			1	5	23.33	23.46	23.43
			3	0	23.47	23.64	23.60
			3	1	23.46	23.64	23.61
			3	2	23.49	23.63	23.61
			6	0	22.46	22.57	22.66
		16QAM	1	0	22.39	22.76	22.49
			1	2	22.52	22.80	22.55
			1	5	22.43	22.75	22.50
			3	0	22.44	22.53	22.59
			3	1	22.44	22.52	22.59
			3	2	22.45	22.51	22.58
			6	0	21.56	21.48	21.67
		64QAM	1	0	21.60	21.67	21.84
			1	2	21.06	21.68	21.58
			1	5	21.83	22.08	21.76
			3	0	21.54	21.94	21.63
			3	1	21.80	21.84	21.17
			3	2	21.22	21.80	21.82
			6	0	20.19	20.28	20.64

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131987	132322	132657
					1711.50MHz	1745.00MHz	1778.50MHz
Band 66	3	QPSK	1	0	23.57	23.52	23.51
			1	7	23.55	23.46	23.47
			1	14	23.48	23.47	23.43
			8	0	22.50	22.62	22.69
			8	4	22.49	22.61	22.67
			8	7	22.42	22.62	22.68
			15	0	22.43	22.62	22.72
		16QAM	1	0	22.74	22.81	22.54
			1	7	22.72	22.74	22.55
			1	14	22.65	22.71	22.53
			8	0	21.58	21.59	21.70
			8	4	21.56	21.57	21.70
			8	7	21.51	21.58	21.72
			15	0	21.51	21.54	21.69
		64QAM	1	0	21.77	21.97	21.49
			1	7	21.45	21.32	21.56
			1	14	21.50	21.45	21.09
			8	0	20.52	20.75	20.48
			8	4	20.90	20.15	20.55
			8	7	20.46	20.26	21.06
			15	0	20.08	20.67	20.64

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131997	132322	132647
					1712.50MHz	1745.00MHz	1777.50MHz
Band 66	5	QPSK	1	0	23.66	23.76	23.81
			1	12	23.57	23.73	23.75
			1	24	23.52	23.74	23.75
			12	0	22.51	22.64	22.73
			12	6	22.53	22.63	22.74
			12	11	22.51	22.64	22.73
			25	0	22.47	22.65	22.72
		16QAM	1	0	22.57	22.85	22.76
			1	12	22.44	22.83	22.73
			1	24	22.43	22.81	22.70
			12	0	21.55	21.69	21.74
			12	6	21.56	21.66	21.76
			12	11	21.58	21.70	21.75
			25	0	21.52	21.62	21.78
		64QAM	1	0	21.59	22.31	21.49
			1	12	21.19	21.13	21.16
			1	24	21.07	21.83	20.65
			12	0	20.55	20.87	20.00
			12	6	20.78	20.05	20.84
			12	11	20.48	20.73	21.48
			25	0	20.18	20.38	20.64

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132022	132322	132622
					1715.00MHz	1745.00MHz	1775.00MHz
Band 66	10	QPSK	1	0	23.61	23.51	23.45
			1	24	23.44	23.53	23.61
			1	49	23.43	23.46	23.50
			25	0	22.49	22.66	22.70
			25	12	22.46	22.68	22.68
			25	24	22.47	22.64	22.68
			50	0	22.50	22.66	22.74
		16QAM	1	0	22.72	22.75	22.49
			1	24	22.63	22.79	22.60
			1	49	22.57	22.72	22.58
			25	0	21.46	21.70	21.78
			25	12	21.46	21.71	21.80
			25	24	21.47	21.71	21.78
			50	0	21.48	21.66	21.75
		64QAM	1	0	21.46	22.09	21.73
			1	24	21.88	22.10	21.18
			1	49	21.40	22.07	21.60
			25	0	20.72	20.53	21.17
			25	12	20.85	20.60	20.98
			25	24	20.48	21.17	21.09
			50	0	20.82	20.61	20.52

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132047	132322	132597
					1717.50MHz	1745.00MHz	1772.50MHz
Band 66	15	QPSK	1	0	23.51	23.46	23.37
			1	37	23.49	23.56	23.56
			1	74	23.35	23.40	23.49
			36	0	22.35	22.56	22.63
			36	16	22.35	22.60	22.61
			36	35	22.36	22.59	22.60
			75	0	22.35	22.59	22.69
		16QAM	1	0	22.65	22.76	22.40
			1	37	22.59	22.87	22.60
			1	74	22.51	22.71	22.55
			36	0	21.37	21.69	21.63
			36	16	21.36	21.69	21.63
			36	35	21.37	21.66	21.63
			75	0	21.33	21.60	21.69
		64QAM	1	0	21.33	22.04	21.54
			1	37	21.25	22.15	21.61
			1	74	21.54	21.29	21.46
			36	0	20.32	20.48	20.19
			36	16	20.45	20.48	20.24
			36	35	20.32	20.55	20.84
			75	0	19.88	20.43	20.54

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132072	132322	132572
					1720.00MHz	1745.00MHz	1770.00MHz
Band 66	20	QPSK	1	0	23.52	23.47	23.20
			1	49	23.46	23.59	23.43
			1	99	23.51	23.46	23.38
			50	0	22.32	22.67	22.65
			50	24	22.34	22.65	22.64
			50	49	22.33	22.66	22.66
			100	0	22.39	22.62	22.70
		16QAM	1	0	22.47	22.78	22.46
			1	49	22.41	22.93	22.68
			1	99	22.44	22.79	22.71
			50	0	21.31	21.68	21.68
			50	24	21.31	21.68	21.68
			50	49	21.31	21.68	21.69
			100	0	21.35	21.62	21.74
		64QAM	1	0	21.77	21.86	21.21
			1	49	21.76	22.31	21.94
			1	99	21.58	21.77	21.47
			50	0	20.45	20.21	20.39
			50	24	20.21	20.26	20.93
			50	49	19.83	20.61	20.63
			100	0	20.83	20.95	20.49

13.4 NR Conducted Power

NR n2 part:

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					371000	376000	381000
					1855MHz	1880MHz	1905MHz
n2	30	10	12@6	DFT_BPSK	22.14	20.50	20.23
			1@1	DFT_BPSK	22.04	20.53	20.09
			1@22	DFT_BPSK	22.02	16.79	20.10
			12@6	DFT_QPSK	22.12	22.06	20.35
			1@1	DFT_QPSK	22.09	22.08	20.29
			1@22	DFT_QPSK	22.03	21.94	20.28
			12@6	DFT_QAM16	21.14	21.18	19.68
			1@1	DFT_QAM16	20.74	20.94	19.70
			1@22	DFT_QAM16	21.03	20.84	19.81
			12@6	DFT_QAM64	19.49	19.57	18.22
			1@1	DFT_QAM64	19.53	19.68	17.85
			1@22	DFT_QAM64	19.56	19.67	17.89
			12@6	DFT_QAM256	17.51	19.49	15.14
			1@1	DFT_QAM256	17.22	19.18	15.24
			1@22	DFT_QAM256	17.13	18.87	15.09
			12@6	CP_QPSK	22.11	22.08	20.27
			1@1	CP_QPSK	22.05	22.04	20.29
			1@22	CP_QPSK	22.05	21.96	20.28
			12@6	CP_QAM16	21.07	22.15	19.84
			1@1	CP_QAM16	21.02	22.00	19.86
			1@22	CP_QAM16	20.93	21.83	19.44
			12@6	CP_QAM64	19.54	20.99	18.16
			1@1	CP_QAM64	19.54	20.90	18.32
			1@22	CP_QAM64	19.37	20.98	17.83
			12@6	CP_QAM256	17.48	19.39	15.14
			1@1	CP_QAM256	17.11	19.15	15.23
			1@22	CP_QAM256	16.98	19.09	15.12

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					3715000	376000	380500
					1857.5MHz	1880MHz	1902.5MHz
n2	30	15	18@9	DFT_BPSK	20.54	20.37	20.22
			1@1	DFT_BPSK	20.37	20.35	20.36
			1@36	DFT_BPSK	21.05	21.07	20.20
			18@9	DFT_QPSK	22.12	21.99	20.23
			1@1	DFT_QPSK	22.06	22.01	20.44
			1@36	DFT_QPSK	21.89	21.79	20.22
			18@9	DFT_QAM16	21.16	21.01	19.75
			1@1	DFT_QAM16	21.11	20.78	19.89
			1@36	DFT_QAM16	21.09	20.63	19.82
			18@9	DFT_QAM64	19.40	19.33	18.23
			1@1	DFT_QAM64	19.54	19.53	17.86
			1@36	DFT_QAM64	19.46	19.19	17.92
			18@9	DFT_QAM256	19.54	19.40	15.11
			1@1	DFT_QAM256	19.08	18.92	15.05
			1@36	DFT_QAM256	18.96	18.78	15.28
			19@9	CP_QPSK	21.61	20.91	20.33
			1@1	CP_QPSK	22.00	22.04	20.37
			1@36	CP_QPSK	21.93	21.83	20.34
			19@9	CP_QAM16	21.91	21.81	19.73
			1@1	CP_QAM16	22.03	21.90	19.74
			1@36	CP_QAM16	22.00	21.73	20.09
			19@9	CP_QAM64	21.99	21.76	18.22
			1@1	CP_QAM64	20.82	21.03	17.73
			1@36	CP_QAM64	20.77	20.81	17.70
			19@9	CP_QAM256	21.02	20.82	15.22
			1@1	CP_QAM256	19.09	18.91	15.07
			1@36	CP_QAM256	18.92	18.77	15.34

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					372000	376000	380000
					1860MHz	1880MHz	1900MHz
n2	30	20	25@12	DFT_BPSK	20.57	20.45	20.31
			1@1	DFT_BPSK	20.55	20.29	19.96
			1@49	DFT_BPSK	20.29	20.74	21.76
			25@12	DFT_QPSK	20.49	21.97	21.91
			1@1	DFT_QPSK	20.31	21.73	21.64
			1@49	DFT_QPSK	20.30	21.58	21.69
			25@12	DFT_QAM16	20.07	20.97	20.93
			1@1	DFT_QAM16	19.99	20.68	20.61
			1@49	DFT_QAM16	19.93	20.51	20.70
			25@12	DFT_QAM64	18.53	19.45	19.28
			1@1	DFT_QAM64	18.11	19.58	18.96
			1@49	DFT_QAM64	17.96	19.07	19.00
			25@12	DFT_QAM256	15.49	19.44	19.30
			1@1	DFT_QAM256	15.20	18.77	18.71
			1@49	DFT_QAM256	15.11	18.82	18.74
			25@12	CP_QPSK	20.48	21.99	21.87
			1@1	CP_QPSK	20.33	21.77	21.61
			1@49	CP_QPSK	20.35	21.64	21.66
			25@12	CP_QAM16	20.04	22.07	21.92
			1@1	CP_QAM16	19.79	21.71	21.63
			1@49	CP_QAM16	19.64	21.55	21.64
			25@12	CP_QAM64	18.63	20.98	20.90
			1@1	CP_QAM64	17.89	20.81	20.63
			1@49	CP_QAM64	18.54	20.49	20.66
			25@12	CP_QAM256	15.54	19.37	19.33
			1@1	CP_QAM256	15.44	18.79	18.64
			1@49	CP_QAM256	15.09	18.75	18.70

NR n5 part:

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					165800	167300	168800
					829MHz	836.5MHz	844MHz
n5	30	10	12@6	DFT_BPSK	22.72	22.58	22.50
			1@1	DFT_BPSK	22.56	22.53	22.40
			1@22	DFT_BPSK	22.64	22.33	22.45
			12@6	DFT_QPSK	22.83	22.75	22.56
			1@1	DFT_QPSK	22.53	22.59	22.26
			1@22	DFT_QPSK	22.47	22.41	22.34
			12@6	DFT_QAM16	21.82	21.49	21.53
			1@1	DFT_QAM16	21.82	21.47	21.50
			1@22	DFT_QAM16	21.77	21.34	21.66
			12@6	DFT_QAM64	20.34	20.00	20.03
			1@1	DFT_QAM64	20.38	20.19	20.20
			1@22	DFT_QAM64	19.89	20.11	20.07
			12@6	DFT_QAM256	18.35	18.17	18.02
			1@1	DFT_QAM256	18.24	18.15	18.03
			1@22	DFT_QAM256	18.06	18.04	18.00
			12@6	CP_QPSK	21.16	20.90	20.84
			1@1	CP_QPSK	21.03	21.06	20.75
			1@22	CP_QPSK	21.10	20.68	21.07
			12@6	CP_QAM16	20.79	20.52	20.54
			1@1	CP_QAM16	21.08	20.91	20.84
			1@22	CP_QAM16	21.07	20.75	20.89
			12@6	CP_QAM64	19.21	19.02	18.91
			1@1	CP_QAM64	18.92	19.69	19.24
			1@22	CP_QAM64	19.06	19.37	19.00
			12@6	CP_QAM256	16.28	16.04	15.96
			1@1	CP_QAM256	16.69	16.72	16.45
			1@22	CP_QAM256	16.46	16.49	16.62

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					166300	167300	168300
					831.5MHz	836.5MHz	841.5MHz
n5	30	15	18@9	DFT_BPSK	22.66	22.63	22.54
			1@1	DFT_BPSK	22.55	22.55	22.37
			1@36	DFT_BPSK	22.44	22.33	22.36
			18@9	DFT_QPSK	22.79	22.61	22.51
			1@1	DFT_QPSK	22.52	22.41	22.24
			1@36	DFT_QPSK	22.31	22.19	22.25
			18@9	DFT_QAM16	21.66	21.55	21.54
			1@1	DFT_QAM16	21.59	21.69	21.56
			1@36	DFT_QAM16	21.56	21.46	21.56
			18@9	DFT_QAM64	20.20	20.06	20.10
			1@1	DFT_QAM64	20.44	20.41	20.32
			1@36	DFT_QAM64	20.24	20.19	20.20
			18@9	DFT_QAM256	18.16	18.03	18.06
			1@1	DFT_QAM256	18.10	18.04	17.95
			1@36	DFT_QAM256	18.09	17.81	17.82
			19@9	CP_QPSK	21.16	21.07	20.98
			1@1	CP_QPSK	20.90	21.03	20.82
			1@36	CP_QPSK	20.76	20.73	20.96
			19@9	CP_QAM16	20.72	20.56	20.57
			1@1	CP_QAM16	20.57	21.04	20.89
			1@36	CP_QAM16	20.73	20.81	20.52
			19@9	CP_QAM64	19.21	19.02	19.03
			1@1	CP_QAM64	18.76	19.73	19.55
			1@36	CP_QAM64	18.64	19.44	18.69
			19@9	CP_QAM256	16.16	16.02	15.94
			1@1	CP_QAM256	16.73	16.65	16.37
			1@36	CP_QAM256	16.61	16.27	16.57

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					166800	167300	167800
					834MHz	836.5MHz	839MHz
n5	30	20	25@12	DFT_BPSK	22.59	22.48	22.54
			1@1	DFT_BPSK	22.51	22.48	22.50
			1@49	DFT_BPSK	22.34	22.30	22.30
			25@12	DFT_QPSK	22.58	22.59	22.56
			1@1	DFT_QPSK	22.49	22.27	22.35
			1@49	DFT_QPSK	22.34	22.19	22.25
			25@12	DFT_QAM16	21.64	21.56	21.62
			1@1	DFT_QAM16	21.55	21.71	21.49
			1@49	DFT_QAM16	21.43	21.47	21.40
			25@12	DFT_QAM64	20.05	20.10	20.07
			1@1	DFT_QAM64	20.07	20.35	20.29
			1@49	DFT_QAM64	20.06	19.68	20.05
			25@12	DFT_QAM256	18.15	18.02	18.06
			1@1	DFT_QAM256	18.09	18.02	18.06
			1@49	DFT_QAM256	17.90	17.73	17.74
			25@12	CP_QPSK	21.14	21.20	21.11
			1@1	CP_QPSK	20.82	20.94	21.00
			1@49	CP_QPSK	20.79	20.94	20.95
			25@12	CP_QAM16	20.68	20.60	20.64
			1@1	CP_QAM16	20.62	21.00	20.87
			1@49	CP_QAM16	20.44	20.39	20.39
			25@12	CP_QAM64	19.14	19.07	19.03
			1@1	CP_QAM64	18.82	18.92	19.38
			1@49	CP_QAM64	18.74	19.25	19.22
			25@12	CP_QAM256	16.19	16.16	16.12
			1@1	CP_QAM256	16.60	16.59	16.44
			1@49	CP_QAM256	16.54	16.19	16.42

NR n7 part:

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					501000	507000	513000
					2505MHz	2535MHz	2565MHz
n7	30	10	12@6	DFT_BPSK	20.73	20.65	20.82
			1@1	DFT_BPSK	20.60	20.49	20.51
			1@22	DFT_BPSK	20.76	20.75	20.54
			12@6	DFT_QPSK	20.76	20.63	20.75
			1@1	DFT_QPSK	20.55	20.65	20.69
			1@22	DFT_QPSK	20.80	20.50	20.59
			12@6	DFT_QAM16	20.19	20.15	20.19
			1@1	DFT_QAM16	20.29	20.28	20.22
			1@22	DFT_QAM16	20.36	20.12	20.24
			12@6	DFT_QAM64	18.68	18.68	18.72
			1@1	DFT_QAM64	18.29	18.18	18.14
			1@22	DFT_QAM64	18.22	18.24	18.25
			12@6	DFT_QAM256	15.43	15.29	15.53
			1@1	DFT_QAM256	15.57	15.47	15.68
			1@22	DFT_QAM256	15.66	15.43	15.53
			12@6	CP_QPSK	20.75	20.66	20.81
			1@1	CP_QPSK	20.80	20.64	20.51
			1@22	CP_QPSK	20.53	20.54	20.80
			12@6	CP_QAM16	20.06	20.10	20.31
			1@1	CP_QAM16	20.46	20.40	19.92
			1@22	CP_QAM16	20.33	20.31	20.44
			12@6	CP_QAM64	18.72	18.59	18.74
			1@1	CP_QAM64	18.98	18.83	18.24
			1@22	CP_QAM64	19.01	18.92	18.37
			12@6	CP_QAM256	15.43	15.25	15.52
			1@1	CP_QAM256	15.62	15.44	15.68
			1@22	CP_QAM256	15.66	15.42	15.75

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					501500	507000	512500
					2507.5MHz	2535MHz	2562.5MHz
n7	30	15	18@9	DFT_BPSK	20.79	20.72	20.75
			1@1	DFT_BPSK	20.66	20.73	20.67
			1@36	DFT_BPSK	20.51	20.68	20.71
			18@9	DFT_QPSK	20.76	20.75	20.72
			1@1	DFT_QPSK	20.62	20.71	20.57
			1@36	DFT_QPSK	20.72	20.64	20.83
			18@9	DFT_QAM16	20.32	20.17	20.33
			1@1	DFT_QAM16	20.26	20.37	20.34
			1@36	DFT_QAM16	20.11	20.31	20.43
			18@9	DFT_QAM64	18.74	18.73	18.77
			1@1	DFT_QAM64	18.18	18.25	18.23
			1@36	DFT_QAM64	18.07	18.28	18.41
			18@9	DFT_QAM256	15.47	15.47	15.63
			1@1	DFT_QAM256	15.53	15.46	15.62
			1@36	DFT_QAM256	15.48	15.45	15.84
			19@9	CP_QPSK	20.79	20.74	20.76
			1@1	CP_QPSK	20.83	20.64	20.54
			1@36	CP_QPSK	20.68	20.66	20.87
			19@9	CP_QAM16	20.29	20.32	20.26
			1@1	CP_QAM16	19.94	20.10	20.35
			1@36	CP_QAM16	20.30	20.15	20.23
			19@9	CP_QAM64	18.69	18.61	18.69
			1@1	CP_QAM64	18.30	18.85	18.78
			1@36	CP_QAM64	18.24	18.81	18.28
			19@9	CP_QAM256	15.60	15.42	15.67
			1@1	CP_QAM256	15.52	15.47	15.60
			1@36	CP_QAM256	15.41	15.39	15.55

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					502000	507000	512000
					2510MHz	2535MHz	2560MHz
n7	30	20	25@12	DFT_BPSK	20.80	20.76	20.84
			1@1	DFT_BPSK	20.69	20.51	20.39
			1@49	DFT_BPSK	20.40	20.35	20.56
			25@12	DFT_QPSK	21.40	20.75	20.78
			1@1	DFT_QPSK	22.27	20.54	20.43
			1@49	DFT_QPSK	22.09	20.33	20.75
			25@12	DFT_QAM16	21.42	20.31	20.39
			1@1	DFT_QAM16	21.12	20.19	20.15
			1@49	DFT_QAM16	20.84	20.15	20.34
			25@12	DFT_QAM64	19.81	18.70	18.70
			1@1	DFT_QAM64	20.18	18.07	18.15
			1@49	DFT_QAM64	20.01	18.06	18.31
			25@12	DFT_QAM256	19.80	15.38	15.73
			1@1	DFT_QAM256	19.11	15.36	15.44
			1@49	DFT_QAM256	19.03	15.41	15.67
			25@12	CP_QPSK	22.40	20.72	20.71
			1@1	CP_QPSK	22.29	20.37	20.43
			1@49	CP_QPSK	22.05	20.51	20.75
			25@12	CP_QAM16	22.38	20.24	20.31
			1@1	CP_QAM16	22.24	20.13	20.27
			1@49	CP_QAM16	22.01	20.22	20.56
			25@12	CP_QAM64	21.33	18.58	18.67
			1@1	CP_QAM64	21.17	18.04	18.81
			1@49	CP_QAM64	21.04	18.10	18.98
			25@12	CP_QAM256	19.79	15.43	15.74
			1@1	CP_QAM256	19.18	15.32	15.61
			1@49	CP_QAM256	19.00	15.42	15.60

NR n41 part:

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					500202	518598	537000
					2501.01MHz	2592.99MHz	2685MHz
n41	30	10	12@6	DFT_BPSK	25.09	25.34	25.16
			1@1	DFT_BPSK	25.05	25.23	25.14
			1@22	DFT_BPSK	25.00	25.33	25.08
			12@6	DFT_QPSK	25.11	25.39	25.18
			1@1	DFT_QPSK	24.86	25.12	24.95
			1@22	DFT_QPSK	24.82	25.15	24.94
			12@6	DFT_QAM16	24.17	24.48	24.20
			1@1	DFT_QAM16	24.33	24.54	24.33
			1@22	DFT_QAM16	24.30	24.55	24.29
			12@6	DFT_QAM64	22.62	22.92	22.70
			1@1	DFT_QAM64	22.94	22.89	22.64
			1@22	DFT_QAM64	22.87	22.93	22.94
			12@6	DFT_QAM256	20.71	21.07	20.69
			1@1	DFT_QAM256	20.68	20.97	20.57
			1@22	DFT_QAM256	20.68	20.95	20.61
			12@6	CP_QPSK	23.51	23.96	23.67
			1@1	CP_QPSK	23.57	23.69	23.40
			1@22	CP_QPSK	23.44	23.83	23.52
			12@6	CP_QAM16	23.20	23.52	23.24
			1@1	CP_QAM16	23.32	23.62	23.36
			1@22	CP_QAM16	23.36	23.60	23.44
			12@6	CP_QAM64	21.56	21.81	21.73
			1@1	CP_QAM64	21.82	22.21	21.83
			1@22	CP_QAM64	22.01	22.10	21.82
			12@6	CP_QAM256	18.53	18.94	18.61
			1@1	CP_QAM256	18.39	18.93	18.41
			1@22	CP_QAM256	18.62	18.97	18.69

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					500700	518598	536496
					2503.5MHz	2592.99MHz	2682.48MHz
n41	30	15	18@9	DFT_BPSK	25.09	25.35	25.09
			1@1	DFT_BPSK	25.06	25.27	25.08
			1@36	DFT_BPSK	25.11	25.33	25.05
			18@9	DFT_QPSK	25.06	25.33	25.09
			1@1	DFT_QPSK	24.84	25.24	24.90
			1@36	DFT_QPSK	24.82	25.33	24.92
			18@9	DFT_QAM16	24.16	24.50	24.19
			1@1	DFT_QAM16	24.29	24.45	24.24
			1@36	DFT_QAM16	24.22	24.46	24.22
			18@9	DFT_QAM64	22.73	22.98	22.68
			1@1	DFT_QAM64	22.89	22.74	22.54
			1@36	DFT_QAM64	22.63	22.84	22.57
			18@9	DFT_QAM256	20.67	21.04	20.82
			1@1	DFT_QAM256	20.65	20.89	20.57
			1@36	DFT_QAM256	20.65	20.89	20.62
			19@9	CP_QPSK	23.69	23.85	23.66
			1@1	CP_QPSK	23.46	23.69	23.46
			1@36	CP_QPSK	23.50	23.60	23.42
			19@9	CP_QAM16	23.08	23.35	23.06
			1@1	CP_QAM16	23.00	23.40	23.33
			1@36	CP_QAM16	23.37	23.44	23.48
			19@9	CP_QAM64	21.69	21.90	21.66
			1@1	CP_QAM64	21.88	21.97	21.88
			1@36	CP_QAM64	21.84	22.18	21.86
			19@9	CP_QAM256	18.76	19.00	18.76
			1@1	CP_QAM256	18.26	18.84	18.51
			1@36	CP_QAM256	18.25	18.92	18.50

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					501204	518598	535988
					2506.02MHz	2592.99MHz	2679.99MHz
n41	30	20	25@12	DFT_BPSK	25.13	25.42	25.10
			1@1	DFT_BPSK	24.97	25.20	24.95
			1@49	DFT_BPSK	24.95	25.22	25.07
			25@12	DFT_QPSK	25.08	25.38	25.08
			1@1	DFT_QPSK	24.83	24.95	24.82
			1@49	DFT_QPSK	24.83	25.07	24.83
			25@12	DFT_QAM16	24.16	24.43	24.16
			1@1	DFT_QAM16	24.17	24.33	24.16
			1@49	DFT_QAM16	24.21	24.50	24.19
			25@12	DFT_QAM64	22.72	22.99	22.73
			1@1	DFT_QAM64	22.50	22.70	22.47
			1@49	DFT_QAM64	22.40	22.77	22.53
			25@12	DFT_QAM256	20.65	20.97	20.65
			1@1	DFT_QAM256	20.56	20.88	20.63
			1@49	DFT_QAM256	20.74	20.89	20.51
			25@12	CP_QPSK	23.61	23.83	23.56
			1@1	CP_QPSK	23.35	23.50	23.31
			1@49	CP_QPSK	23.35	23.56	23.34
			25@12	CP_QAM16	23.07	23.37	23.13
			1@1	CP_QAM16	23.39	23.19	23.20
			1@49	CP_QAM16	23.30	23.28	23.05
			25@12	CP_QAM64	21.70	21.97	21.61
			1@1	CP_QAM64	21.67	21.91	21.67
			1@49	CP_QAM64	21.82	21.92	21.74
			25@12	CP_QAM256	18.70	18.93	18.66
			1@1	CP_QAM256	18.52	18.67	18.47
			1@49	CP_QAM256	18.56	18.71	18.50

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					502200	518598	534996
					2511MHz	2592.99MHz	2674.98MHz
n41	30	30	36@18	DFT_BPSK	25.23	25.28	25.05
			1@1	DFT_BPSK	24.94	25.01	24.78
			1@76	DFT_BPSK	24.85	25.07	24.84
			36@18	DFT_QPSK	25.14	25.33	25.08
			1@1	DFT_QPSK	24.79	24.98	24.59
			1@76	DFT_QPSK	24.88	25.06	24.85
			36@18	DFT_QAM16	24.20	24.29	24.14
			1@1	DFT_QAM16	24.09	24.19	23.86
			1@76	DFT_QAM16	24.07	24.31	24.00
			36@18	DFT_QAM64	22.73	22.81	22.64
			1@1	DFT_QAM64	22.76	22.55	22.30
			1@76	DFT_QAM64	22.73	22.64	22.26
			36@18	DFT_QAM256	20.77	20.83	20.64
			1@1	DFT_QAM256	20.54	20.68	20.33
			1@76	DFT_QAM256	20.58	20.68	20.42
			39@19	CP_QPSK	23.71	23.87	23.64
			1@1	CP_QPSK	23.23	23.38	23.13
			1@76	CP_QPSK	23.32	23.51	23.23
			39@19	CP_QAM16	23.27	23.37	23.11
			1@1	CP_QAM16	23.20	23.33	22.92
			1@76	CP_QAM16	23.23	23.47	23.06
			39@19	CP_QAM64	21.68	21.88	21.62
			1@1	CP_QAM64	21.85	21.88	21.60
			1@76	CP_QAM64	21.89	21.90	21.76
			39@19	CP_QAM256	18.85	18.97	18.71
			1@1	CP_QAM256	18.22	18.45	18.23
			1@76	CP_QAM256	18.13	18.70	18.51

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					503202	518598	534000
					2516.01MHz	2592.99MHz	2670MHz
n41	30	40	50@25	DFT_BPSK	25.18	25.27	25.10
			1@1	DFT_BPSK	24.64	24.73	24.53
			1@104	DFT_BPSK	24.68	24.83	24.65
			50@25	DFT_QPSK	25.13	25.25	25.10
			1@1	DFT_QPSK	24.57	24.64	24.38
			1@104	DFT_QPSK	24.49	24.65	24.43
			50@25	DFT_QAM16	24.14	24.36	24.08
			1@1	DFT_QAM16	23.77	23.85	23.64
			1@104	DFT_QAM16	23.71	24.04	23.67
			50@25	DFT_QAM64	22.76	22.87	22.66
			1@1	DFT_QAM64	21.89	22.36	21.67
			1@104	DFT_QAM64	21.78	21.95	21.77
			50@25	DFT_QAM256	20.80	20.87	20.67
			1@1	DFT_QAM256	20.36	20.37	20.12
			1@104	DFT_QAM256	20.32	20.58	20.38
			53@26	CP_QPSK	23.65	23.75	23.56
			1@1	CP_QPSK	23.15	23.29	23.04
			1@104	CP_QPSK	23.17	23.27	23.16
			53@26	CP_QAM16	23.19	23.35	23.10
			1@1	CP_QAM16	23.01	23.02	22.85
			1@104	CP_QAM16	23.16	23.26	22.92
			53@26	CP_QAM64	21.66	21.80	21.53
			1@1	CP_QAM64	21.48	21.56	21.25
			1@104	CP_QAM64	21.52	21.61	21.33
			53@26	CP_QAM256	18.75	18.86	18.60
			1@1	CP_QAM256	18.21	18.34	18.13
			1@104	CP_QAM256	18.25	18.35	18.21

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					504204	518598	532998
					2521.02MHz	2592.99MHz	2664.99MHz
n41	30	50	64@32	DFT_BPSK	25.20	25.37	25.11
			1@1	DFT_BPSK	24.89	24.93	24.93
			1@131	DFT_BPSK	24.88	25.03	24.90
			64@32	DFT_QPSK	25.28	25.36	25.18
			1@1	DFT_QPSK	24.79	24.76	24.79
			1@131	DFT_QPSK	24.81	24.94	24.73
			64@32	DFT_QAM16	24.23	24.37	24.17
			1@1	DFT_QAM16	24.23	24.22	24.11
			1@131	DFT_QAM16	24.11	24.30	24.14
			64@32	DFT_QAM64	22.73	22.90	22.63
			1@1	DFT_QAM64	22.49	22.54	22.47
			1@131	DFT_QAM64	22.45	22.59	22.43
			64@32	DFT_QAM256	20.77	20.90	20.72
			1@1	DFT_QAM256	20.66	20.66	20.57
			1@131	DFT_QAM256	20.72	20.67	20.57
			67@33	CP_QPSK	23.66	23.87	23.63
			1@1	CP_QPSK	23.28	23.35	23.38
			1@131	CP_QPSK	23.30	23.43	23.26
			67@33	CP_QAM16	23.18	23.35	23.09
			1@1	CP_QAM16	22.97	23.07	23.28
			1@131	CP_QAM16	22.98	23.42	23.27
			67@33	CP_QAM64	21.72	21.91	21.65
			1@1	CP_QAM64	21.66	21.65	21.68
			1@131	CP_QAM64	21.61	21.83	21.61
			67@33	CP_QAM256	18.72	18.92	18.66
			1@1	CP_QAM256	18.52	18.49	18.50
			1@131	CP_QAM256	18.50	18.59	18.47

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					505200	518598	531996
					2526MHz	2592.99MHz	2659.98MHz
n41	30	60	81@40	DFT_BPSK	25.14	25.34	25.37
			1@1	DFT_BPSK	24.75	24.86	25.16
			1@160	DFT_BPSK	24.82	24.97	24.97
			81@40	DFT_QPSK	25.22	25.40	25.39
			1@1	DFT_QPSK	24.63	24.75	25.03
			1@160	DFT_QPSK	24.66	24.89	24.93
			81@40	DFT_QAM16	24.15	24.41	24.44
			1@1	DFT_QAM16	23.99	24.03	24.29
			1@160	DFT_QAM16	23.86	24.04	24.24
			81@40	DFT_QAM64	22.74	22.85	22.89
			1@1	DFT_QAM64	22.23	22.68	22.63
			1@160	DFT_QAM64	22.28	22.72	22.60
			81@40	DFT_QAM256	20.78	20.89	20.92
			1@1	DFT_QAM256	20.57	20.50	20.72
			1@160	DFT_QAM256	20.39	20.48	20.58
			81@40	CP_QPSK	23.69	23.84	23.84
			1@1	CP_QPSK	23.21	23.39	23.50
			1@160	CP_QPSK	23.11	23.32	23.28
			81@40	CP_QAM16	23.14	23.29	23.26
			1@1	CP_QAM16	23.10	23.24	23.59
			1@160	CP_QAM16	23.09	23.15	23.37
			81@40	CP_QAM64	21.83	22.05	21.87
			1@1	CP_QAM64	21.64	21.95	22.02
			1@160	CP_QAM64	21.66	21.99	21.85
			81@40	CP_QAM256	18.62	19.13	18.90
			1@1	CP_QAM256	18.14	18.73	18.70
			1@160	CP_QAM256	18.23	18.87	18.66

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					507204	518598	529998
					2536.02MHz	2592.99MHz	2649.995MHz
n41	30	80	108@54	DFT_BPSK	25.42	25.65	25.45
			1@1	DFT_BPSK	24.93	24.85	24.97
			1@215	DFT_BPSK	24.91	24.89	24.80
			108@54	DFT_QPSK	25.49	25.60	25.45
			1@1	DFT_QPSK	24.83	24.79	24.95
			1@215	DFT_QPSK	24.93	24.84	24.65
			108@54	DFT_QAM16	24.53	24.69	24.45
			1@1	DFT_QAM16	24.01	24.13	24.25
			1@215	DFT_QAM16	24.05	24.21	23.94
			108@54	DFT_QAM64	23.03	23.16	23.00
			1@1	DFT_QAM64	22.09	21.94	22.10
			1@215	DFT_QAM64	22.09	22.54	21.96
			108@54	DFT_QAM256	21.11	21.20	21.07
			1@1	DFT_QAM256	20.70	20.77	20.83
			1@215	DFT_QAM256	20.79	20.62	20.42
			109@54	CP_QPSK	23.94	24.10	23.88
			1@1	CP_QPSK	23.48	23.41	23.53
			1@215	CP_QPSK	23.54	23.51	23.36
			109@54	CP_QAM16	23.48	23.64	23.47
			1@1	CP_QAM16	23.56	23.38	23.48
			1@215	CP_QAM16	23.54	23.43	23.34
			109@54	CP_QAM64	22.01	22.18	21.99
			1@1	CP_QAM64	21.56	21.51	21.76
			1@215	CP_QAM64	21.63	21.71	21.65
			109@54	CP_QAM256	18.99	19.23	18.97
			1@1	CP_QAM256	18.48	18.52	18.58
			1@215	CP_QAM256	18.53	18.59	18.43

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					508200	518598	528996
					2541MHz	2592.99MHz	2644.98MHz
n41	30	90	120@60	DFT_BPSK	25.36	25.50	25.40
			1@1	DFT_BPSK	24.90	24.74	24.96
			1@243	DFT_BPSK	24.96	24.89	24.71
			120@60	DFT_QPSK	25.45	25.53	25.39
			1@1	DFT_QPSK	24.89	24.52	24.82
			1@243	DFT_QPSK	24.97	24.59	24.62
			120@60	DFT_QAM16	24.49	24.62	24.47
			1@1	DFT_QAM16	23.93	23.93	23.92
			1@243	DFT_QAM16	24.03	23.94	23.90
			120@60	DFT_QAM64	22.92	23.12	23.01
			1@1	DFT_QAM64	22.70	22.57	22.43
			1@243	DFT_QAM64	22.79	22.38	22.29
			120@60	DFT_QAM256	21.05	21.11	21.01
			1@1	DFT_QAM256	20.38	20.44	20.42
			1@243	DFT_QAM256	20.38	20.37	20.22
			123@61	CP_QPSK	23.92	24.03	23.95
			1@1	CP_QPSK	23.21	23.22	23.43
			1@243	CP_QPSK	23.36	23.23	23.28
			123@61	CP_QAM16	23.30	23.57	23.42
			1@1	CP_QAM16	23.05	22.82	23.34
			1@243	CP_QAM16	23.14	23.13	23.22
			123@61	CP_QAM64	21.99	22.09	21.92
			1@1	CP_QAM64	21.80	21.67	21.54
			1@243	CP_QAM64	21.83	21.58	21.45
			123@61	CP_QAM256	18.97	19.11	18.96
			1@1	CP_QAM256	18.10	18.30	18.45
			1@243	CP_QAM256	18.21	17.97	18.35

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					509202	518598	528000
					2546.01MHz	2592.99MHz	2640MHz
n41	30	100	135@67	DFT_BPSK	25.43	25.49	25.50
			1@1	DFT_BPSK	24.70	24.55	24.68
			1@271	DFT_BPSK	24.78	24.59	24.52
			135@67	DFT_QPSK	25.42	25.59	25.48
			1@1	DFT_QPSK	24.68	24.53	24.46
			1@271	DFT_QPSK	24.75	24.63	24.34
			135@67	DFT_QAM16	24.47	24.56	24.47
			1@1	DFT_QAM16	23.76	23.66	23.94
			1@271	DFT_QAM16	23.93	23.73	23.74
			135@67	DFT_QAM64	23.01	23.12	22.96
			1@1	DFT_QAM64	22.57	22.44	22.52
			1@271	DFT_QAM64	22.58	22.47	22.16
			137@68	DFT_QAM256	20.99	21.19	20.96
			1@1	DFT_QAM256	20.20	20.10	20.28
			1@271	DFT_QAM256	20.29	20.16	20.13
			137@68	CP_QPSK	23.87	24.08	23.93
			1@1	CP_QPSK	23.05	22.93	23.05
			1@271	CP_QPSK	23.04	22.99	22.97
			137@68	CP_QAM16	23.40	23.55	23.49
			1@1	CP_QAM16	22.83	22.72	23.02
			1@271	CP_QAM16	22.99	22.83	22.59
			137@68	CP_QAM64	21.91	22.05	22.00
			1@1	CP_QAM64	21.59	21.59	21.71
			1@271	CP_QAM64	21.68	21.52	21.55
			137@68	CP_QAM256	19.08	19.19	19.00
			1@1	CP_QAM256	17.86	17.85	17.98
			1@271	CP_QAM256	18.01	17.87	18.22

NR n66 part:

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					343000	349000	355000
					1715MHz	1745MHz	1775MHz
n66	30	10	12@6	DFT_BPSK	22.40	20.80	20.67
			1@1	DFT_BPSK	22.20	20.89	20.72
			1@22	DFT_BPSK	22.24	21.63	20.66
			12@6	DFT_QPSK	22.52	22.49	20.71
			1@1	DFT_QPSK	22.16	22.31	20.67
			1@22	DFT_QPSK	22.23	22.36	20.61
			12@6	DFT_QAM16	21.40	21.46	20.19
			1@1	DFT_QAM16	21.23	21.18	20.29
			1@22	DFT_QAM16	21.24	21.16	20.22
			12@6	DFT_QAM64	19.86	19.88	18.70
			1@1	DFT_QAM64	19.75	19.76	18.39
			1@22	DFT_QAM64	19.82	19.78	18.31
			12@6	DFT_QAM256	17.76	19.87	15.75
			1@1	DFT_QAM256	17.40	19.70	15.57
			1@22	DFT_QAM256	17.43	19.35	15.84
			12@6	CP_QPSK	22.45	22.47	20.74
			1@1	CP_QPSK	22.24	22.33	20.67
			1@22	CP_QPSK	22.31	22.27	20.53
			12@6	CP_QAM16	21.37	22.46	20.39
			1@1	CP_QAM16	21.24	22.17	20.31
			1@22	CP_QAM16	21.08	22.29	20.22
			12@6	CP_QAM64	19.96	21.46	18.81
			1@1	CP_QAM64	19.77	21.31	18.41
			1@22	CP_QAM64	19.79	21.10	18.87
			12@6	CP_QAM256	17.86	19.93	15.74
			1@1	CP_QAM256	17.32	19.69	15.57
			1@22	CP_QAM256	17.49	19.68	15.50

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					343500	349000	354500
					1717.5MHz	1745MHz	1772.5MHz
n66	30	15	18@9	DFT_BPSK	20.92	20.81	20.69
			1@1	DFT_BPSK	20.77	20.84	20.65
			1@36	DFT_BPSK	20.99	21.93	20.63
			18@9	DFT_QPSK	20.81	21.47	20.76
			1@1	DFT_QPSK	20.78	21.32	20.84
			1@36	DFT_QPSK	20.98	22.37	20.77
			18@9	DFT_QAM16	20.36	21.44	20.29
			1@1	DFT_QAM16	20.37	21.28	20.38
			1@36	DFT_QAM16	20.50	21.40	20.38
			18@9	DFT_QAM64	19.02	19.87	18.79
			1@1	DFT_QAM64	18.63	20.15	18.31
			1@36	DFT_QAM64	18.65	20.20	18.42
			18@9	DFT_QAM256	15.79	19.85	15.78
			1@1	DFT_QAM256	15.61	19.40	15.50
			1@36	DFT_QAM256	15.81	19.67	15.54
			19@9	CP_QPSK	20.93	21.94	20.83
			1@1	CP_QPSK	20.77	22.23	20.84
			1@36	CP_QPSK	20.92	22.32	20.64
			19@9	CP_QAM16	20.46	22.36	20.26
			1@1	CP_QAM16	19.93	22.26	20.32
			1@36	CP_QAM16	20.54	22.34	20.29
			19@9	CP_QAM64	18.98	22.33	18.73
			1@1	CP_QAM64	19.10	21.21	18.21
			1@36	CP_QAM64	19.12	21.39	18.32
			19@9	CP_QAM256	15.97	21.42	15.78
			1@1	CP_QAM256	15.62	19.58	15.51
			1@36	CP_QAM256	16.12	19.61	15.81

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					344000	349000	354000
					1720MHz	1745MHz	1770MHz
n66	30	20	25@12	DFT_BPSK	20.98	20.90	20.89
			1@1	DFT_BPSK	20.92	20.80	20.73
			1@49	DFT_BPSK	21.72	20.50	21.62
			25@12	DFT_QPSK	22.54	20.87	22.51
			1@1	DFT_QPSK	22.38	20.83	22.16
			1@49	DFT_QPSK	22.37	20.70	22.12
			25@12	DFT_QAM16	21.63	20.42	21.57
			1@1	DFT_QAM16	20.83	20.25	21.27
			1@49	DFT_QAM16	21.33	20.23	21.25
			25@12	DFT_QAM64	19.98	18.90	19.93
			1@1	DFT_QAM64	20.11	18.42	19.70
			1@49	DFT_QAM64	19.86	18.16	19.59
			25@12	DFT_QAM256	20.04	15.85	19.96
			1@1	DFT_QAM256	19.47	15.65	19.26
			1@49	DFT_QAM256	19.40	15.66	19.26
			25@12	CP_QPSK	22.54	20.81	22.50
			1@1	CP_QPSK	22.33	20.81	22.11
			1@49	CP_QPSK	22.44	20.45	22.07
			25@12	CP_QAM16	22.60	20.35	22.48
			1@1	CP_QAM16	22.25	19.84	22.18
			1@49	CP_QAM16	22.26	19.69	22.14
			25@12	CP_QAM64	21.59	18.83	21.49
			1@1	CP_QAM64	21.37	18.91	20.91
			1@49	CP_QAM64	21.40	18.78	20.93
			25@12	CP_QAM256	20.01	15.91	20.00
			1@1	CP_QAM256	19.63	15.78	19.56
			1@49	CP_QAM256	19.60	15.55	19.57

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					346000	349000	352000
					1730MHz	1745MHz	1760MHz
n66	30	40	50@25	DFT_BPSK	21.87	20.73	20.71
			1@1	DFT_BPSK	21.32	20.24	20.26
			1@104	DFT_BPSK	20.45	20.19	20.42
			50@25	DFT_QPSK	21.89	20.71	21.48
			1@1	DFT_QPSK	20.35	20.44	22.04
			1@104	DFT_QPSK	20.46	20.13	21.90
			50@25	DFT_QAM16	20.37	20.26	21.24
			1@1	DFT_QAM16	20.02	19.92	20.94
			1@104	DFT_QAM16	20.02	19.65	20.39
			50@25	DFT_QAM64	18.85	18.69	19.81
			1@1	DFT_QAM64	18.13	18.02	19.29
			1@104	DFT_QAM64	18.14	17.58	19.45
			50@25	DFT_QAM256	15.66	15.66	19.78
			1@1	DFT_QAM256	15.51	15.41	18.99
			1@104	DFT_QAM256	15.55	15.10	19.03
			53@26	CP_QPSK	20.81	20.63	21.31
			1@1	CP_QPSK	20.34	20.47	22.01
			1@104	CP_QPSK	20.34	19.95	21.90
			53@26	CP_QAM16	20.41	20.28	21.90
			1@1	CP_QAM16	20.11	19.87	21.88
			1@104	CP_QAM16	19.76	19.92	21.82
			53@26	CP_QAM64	18.89	18.58	21.80
			1@1	CP_QAM64	18.14	18.05	20.96
			1@104	CP_QAM64	18.10	17.69	20.88
			53@26	CP_QAM256	15.78	15.64	20.82
			1@1	CP_QAM256	15.16	15.30	19.03
			1@104	CP_QAM256	15.22	15.09	19.00

NR n71 part:

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					133600	136100	138600
					668MHz	680.5MHz	693MHz
n71	30	10	12@6	DFT_BPSK	22.49	22.56	22.69
			1@1	DFT_BPSK	22.36	22.50	22.63
			1@22	DFT_BPSK	22.48	22.56	22.62
			12@6	DFT_QPSK	22.53	22.68	22.71
			1@1	DFT_QPSK	22.28	22.46	22.59
			1@22	DFT_QPSK	22.35	22.44	22.47
			12@6	DFT_QAM16	21.58	21.69	21.74
			1@1	DFT_QAM16	21.61	21.43	21.67
			1@22	DFT_QAM16	21.67	21.38	21.75
			12@6	DFT_QAM64	20.01	20.10	20.11
			1@1	DFT_QAM64	20.02	20.17	20.14
			1@22	DFT_QAM64	20.09	20.19	20.16
			12@6	DFT_QAM256	18.19	18.31	18.34
			1@1	DFT_QAM256	17.98	18.08	18.17
			1@22	DFT_QAM256	18.06	18.14	18.26
			12@6	CP_QPSK	21.00	21.07	21.05
			1@1	CP_QPSK	21.26	21.35	21.36
			1@22	CP_QPSK	21.46	21.19	21.47
			12@6	CP_QAM16	20.63	20.63	20.66
			1@1	CP_QAM16	20.90	20.61	21.08
			1@22	CP_QAM16	20.69	20.92	20.80
			12@6	CP_QAM64	19.03	19.16	19.25
			1@1	CP_QAM64	19.76	19.11	19.88
			1@22	CP_QAM64	19.12	19.00	19.79
			12@6	CP_QAM256	16.07	16.10	16.13
			1@1	CP_QAM256	16.72	16.66	16.73
			1@22	CP_QAM256	16.67	16.66	16.84

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					134100	136100	138100
					670.5MHz	680.5MHz	690.5MHz
n71	30	15	18@9	DFT_BPSK	22.52	22.55	22.58
			1@1	DFT_BPSK	22.33	22.48	22.57
			1@36	DFT_BPSK	22.48	22.49	22.54
			18@9	DFT_QPSK	22.49	22.60	22.62
			1@1	DFT_QPSK	22.26	22.34	22.38
			1@36	DFT_QPSK	22.38	22.41	22.46
			18@9	DFT_QAM16	21.49	21.54	21.64
			1@1	DFT_QAM16	21.24	21.52	21.63
			1@36	DFT_QAM16	21.35	21.46	21.73
			18@9	DFT_QAM64	20.12	20.18	20.31
			1@1	DFT_QAM64	20.02	20.11	20.10
			1@36	DFT_QAM64	20.13	20.11	20.14
			18@9	DFT_QAM256	18.04	18.10	18.13
			1@1	DFT_QAM256	17.94	18.01	18.02
			1@36	DFT_QAM256	18.06	18.04	18.05
			19@9	CP_QPSK	21.03	21.01	21.13
			1@1	CP_QPSK	20.99	21.47	21.48
			1@36	CP_QPSK	21.20	21.36	21.39
			19@9	CP_QAM16	20.50	20.57	20.64
			1@1	CP_QAM16	20.39	21.00	21.06
			1@36	CP_QAM16	20.48	20.98	21.07
			19@9	CP_QAM64	19.05	19.08	19.13
			1@1	CP_QAM64	18.82	19.78	19.95
			1@36	CP_QAM64	18.95	19.66	19.93
			19@9	CP_QAM256	15.99	16.04	16.11
			1@1	CP_QAM256	16.44	16.83	16.85
			1@36	CP_QAM256	16.63	16.76	16.89

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					134600	136100	137600
					673MHz	680.5MHz	688MHz
n71	30	20	25@12	DFT_BPSK	22.51	22.59	22.67
			1@1	DFT_BPSK	22.31	22.47	22.51
			1@49	DFT_BPSK	22.43	22.42	22.46
			25@12	DFT_QPSK	22.44	22.56	22.62
			1@1	DFT_QPSK	22.20	22.28	22.44
			1@49	DFT_QPSK	22.36	22.34	22.40
			25@12	DFT_QAM16	21.54	21.63	21.66
			1@1	DFT_QAM16	21.47	21.58	21.60
			1@49	DFT_QAM16	21.58	21.55	21.67
			25@12	DFT_QAM64	20.01	19.94	20.08
			1@1	DFT_QAM64	19.62	20.08	20.22
			1@49	DFT_QAM64	19.72	20.03	20.20
			25@12	DFT_QAM256	18.05	18.11	18.19
			1@1	DFT_QAM256	17.84	17.82	17.98
			1@49	DFT_QAM256	17.98	17.95	17.93
			25@12	CP_QPSK	20.98	21.02	21.12
			1@1	CP_QPSK	21.23	21.45	21.49
			1@49	CP_QPSK	21.42	21.37	21.42
			25@12	CP_QAM16	20.60	20.62	20.70
			1@1	CP_QAM16	20.79	20.93	20.63
			1@49	CP_QAM16	20.92	20.56	20.71
			25@12	CP_QAM64	19.06	19.07	19.20
			1@1	CP_QAM64	19.47	19.89	19.91
			1@49	CP_QAM64	19.64	19.86	19.00
			25@12	CP_QAM256	16.19	16.23	16.35
			1@1	CP_QAM256	16.44	16.62	16.79
			1@49	CP_QAM256	16.78	16.75	16.72

13.5 WLAN 2.4 GHz Band Conducted Power

ANT1

Average Power (dBm)					
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)	802.11 ax20
CH 01	2412	16.07	13.36	12.91	10.06
CH 06	2437	15.23	12.74	12.76	9.13
CH 11	2462	15.37	12.93	13.25	9.46

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n (HT40)	802.11 ax40
CH 03	2422	12.43	9.56
CH 06	2437	12.13	9.22
CH 09	2452	12.46	9.37

ANT2

Average Power (dBm)					
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)	802.11 ax20
CH 01	2412	16.32	13.36	11.01	8.38
CH 06	2437	16.05	13.74	12.03	8.46
CH 11	2462	16.09	13.30	11.82	8.43

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n (HT40)	802.11 ax40
CH 03	2422	11.09	8.41
CH 06	2437	11.38	8.57
CH 09	2452	11.13	8.24

Note:

- SAR test of WLAN 2.4GHz is performed.
- Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- Per KDB 248227 D01v02r02, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
 - When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
 - When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
- Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.6 WLAN 5.2GHz Band Conducted Power**ANT 1**

Average Power (dBm)					
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 ax20	802.11 n20
CH 36	5180	11.45	10.06	8.22	9.97
CH 40	5200	12.10	10.33	9.00	10.49
CH 48	5240	11.77	10.15	8.51	10.22

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 ac40	802.11 ax40	802.11 n40
CH 38	5190	9.09	8.35	9.03
CH 46	5230	9.25	8.66	9.28

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac80	802.11 ax80
CH 42	5210	8.88	8.44

ANT 2

Average Power (dBm)					
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 ax20	802.11 n20
CH 36	5180	11.27	9.34	7.40	9.25
CH 40	5200	12.44	8.54	7.19	8.77
CH 48	5240	12.38	8.71	7.11	8.96

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 ac40	802.11 ax40	802.11 n40
CH 38	5190	7.99	7.17	7.83
CH 46	5230	7.88	7.28	7.89

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac80	802.11 ax80
CH 42	5210	7.40	6.98

Note:

6. SAR test of WLAN 5.2GHz is performed.
7. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
8. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
9. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.7 WLAN 5.8GHz Band Conducted Power

ANT 1

Average Power (dBm)					
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 ax20	802.11 n20
CH 149	5745	11.04	7.32	6.22	8.20
CH 157	5785	13.50	9.79	7.17	10.71
CH 165	5825	13.08	10.24	6.62	11.30

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 ac40	802.11 ax40	802.11 n40
CH 151	5755	8.07	7.33	8.05
CH 159	5795	9.86	9.15	9.78

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac80	802.11 ax80
CH 155	5775	8.79	8.25

ANT 2

Average Power (dBm)					
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 ax20	802.11 n20
CH 149	5745	11.21	8.41	7.07	9.28
CH 157	5785	11.67	7.89	5.18	8.91
CH 165	5825	12.56	9.68	6.20	10.66

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 ac40	802.11 ax40	802.11 n40
CH 151	5755	8.69	7.91	8.82
CH 159	5795	8.15	7.55	8.20

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac80	802.11 ax80
CH 155	5775	8.25	7.62

Note:

1. SAR test of WLAN 5.8GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.8 Bluetooth Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	2.99	2.59	2.99
CH 39	2441	3.22	2.66	3.05
CH 78	2480	2.33	2.05	2.49

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
CH 00	2402	3.02	2.91	3.00	2.98
CH 20	2442	2.50	2.42	2.49	2.47
CH 39	2480	2.14	2.09	2.12	2.12

Note:

1. SAR test of Bluetooth is performed and the mode with highest average power is selected for SAR testing.
2. Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, SAR test for BLE is not required.
3. The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.9 NFC Conducted Power

Average Power (dBm)	
Frequency (MHz)	ASK
13.56	-38.74

Note:

6. Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, SAR test for NFC is not required.

dBm	mW
-38.74	0.00013

7. The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.

14 Exposure Positions Consideration

14.1 EUT Antenna Locations

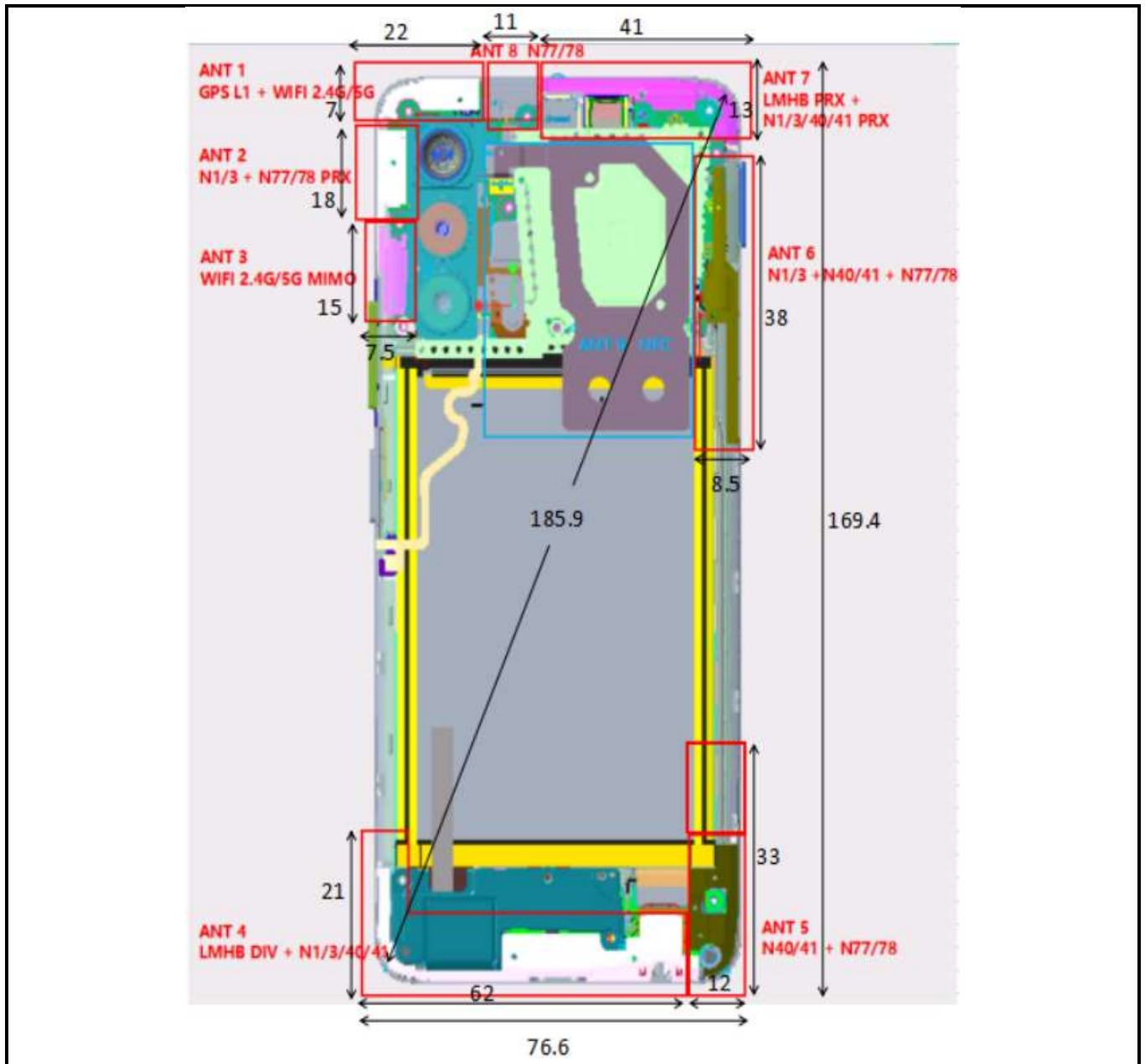


Fig.14.1 EUT Antenna Locations

Note: This antenna diagram is only used as a reference for the distance from the antenna to each edge. For the specific shape of the antenna, please refer to the physical photo.

14.2 Test Positions Consideration

Distance of Antennas to EUT edge/surface Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
ANT 1	<25mm	<25mm	<25mm	160mm	<25mm	52mm
ANT 2	<25mm	<25mm	<25mm	160mm	<25mm	41mm
ANT 3	<25mm	<25mm	29mm	123mm	<25mm	65mm
ANT 7	<25mm	<25mm	<25mm	155mm	35mm	<25mm

Test Positions Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
ANT 1	Yes	Yes	Yes	No	Yes	No
ANT 2	Yes	Yes	Yes	No	Yes	No
ANT 3	Yes	Yes	No	No	Yes	No
ANT 7	Yes	Yes	Yes	No	No	Yes

Note:

- ANT 1: 2.4GHz WLAN & 5GHz WLAN & BT & GPS ANT.
- ANT 2: 5G NR n77/n78 ANT (Tx).
- ANT 3: 2.4GHz & 5GHz WLAN MIMO ANT.
- ANT 4: GSM&WCDMA<E ANT(Tx), 5G NR n2/n5/n7/n38/n41/n66/n71 ANT(RX).
- ANT 5: 5G NR n38/n41/n77/n78(Rx).
- ANT 6: 5G NR n38/n41/n77/n78(Rx).
- ANT 7: GSM&WCDMA<E ANT(Tx), 5G NR n2/n5/n7/n38/n41/n66/n71 ANT(Tx).
- ANT 8: 5G NR n77/n78 ANT (Rx).
- ANT 9: NFC ANT.
- Head/Body-worn/Hotspot mode SAR assessments are required.
- Referring to KDB 941225 D06 v02r01, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
- Per KDB 447498 D04v01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user, which is 0 mm for head SAR, 10 mm for hotspot SAR, and 10 mm for body-worn SAR.
- Per KDB 648474 D04 v01r03, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2\text{ W/kg}$

15 SAR Test Results Summary

15.1 Standalone Head SAR Data

➤ GSM Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
1	GSM850/Voice	Right Cheek	190	836.6	33.91	-0.16	34.0	0.581	1.021	0.593
	GSM850/Voice	Right Tilted	190	836.6	33.91	-0.05	34.0	0.488	1.021	0.498
	GSM850/Voice	Left Cheek	190	836.6	33.91	-0.17	34.0	0.276	1.021	0.282
	GSM850/Voice	Left Tilted	190	836.6	33.91	-0.04	34.0	0.211	1.021	0.215
	GSM1900/Voice	Right Cheek	512	1850.2	30.96	-0.15	31.0	0.557	1.009	0.562
2	GSM1900/Voice	Right Tilted	512	1850.2	30.96	0.14	31.0	0.743	1.009	0.750
	GSM1900/Voice	Left Cheek	512	1850.2	30.96	0.11	31.0	0.324	1.009	0.327
	GSM1900/Voice	Left Tilted	512	1850.2	30.96	-0.17	31.0	0.511	1.009	0.516
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	Right Cheek	9262	1852.4	24.27	-0.06	24.5	0.684	1.054	0.721
	Band II/RMC	Right Tilted	9262	1852.4	24.27	0.08	24.5	0.858	1.054	0.904
	Band II/RMC	Left Cheek	9262	1852.4	24.27	0.04	24.5	0.477	1.054	0.503
	Band II/RMC	Left Tilted	9262	1852.4	24.27	0.17	24.5	0.568	1.054	0.599
	Band II/RMC	Right Tilted	9400	1880	24.22	0.07	24.5	0.868	1.067	0.926
3	Band II/RMC	Right Tilted	9538	1907.6	24.20	0.09	24.5	0.887	1.072	0.951
	Band II/RMC	Right Tilted	9538	1907.6	24.20	0.04	24.5	0.864	1.072	0.926
	Band IV/RMC	Right Cheek	1413	1732.6	23.22	0.00	23.5	0.967	1.067	1.032
	Band IV/RMC	Right Tilted	1413	1732.6	23.22	0.02	23.5	1.140	1.067	1.216
	Band IV/RMC	Left Cheek	1413	1732.6	23.22	0.15	23.5	0.521	1.067	0.556
	Band IV/RMC	Left Tilted	1413	1732.6	23.22	0.14	23.5	0.711	1.067	0.759
	Band IV/RMC	Right Cheek	1312	1712.4	23.19	0.19	23.5	0.876	1.074	0.941
	Band IV/RMC	Right Cheek	1513	1752.6	23.20	-0.14	23.5	0.912	1.072	0.978
	Band IV/RMC	Right Tilted	1312	1712.4	23.19	-0.13	23.5	1.070	1.074	1.149
4	Band IV/RMC	Right Tilted	1513	1752.6	23.20	0.06	23.5	1.160	1.072	1.244
	Band IV/RMC	Right Tilted	1513	1752.6	23.20	0.03	23.5	1.120	1.072	1.201
5	Band V/RMC	Right Cheek	4183	836.6	23.01	0.05	23.5	0.356	1.119	0.398
	Band V/RMC	Right Tilted	4183	836.6	23.01	0.07	23.5	0.278	1.119	0.311
	Band V/RMC	Left Cheek	4183	836.6	23.01	0.15	23.5	0.173	1.119	0.194
	Band V/RMC	Left Tilted	4183	836.6	23.01	0.08	23.5	0.133	1.119	0.149
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
6	Band2/1RB#49	Right Cheek	18700	1860	23.57	-0.05	24.0	0.552	1.104	0.609
	Band2/1RB#49	Right Tilted	18700	1860	23.57	-0.11	24.0	0.652	1.104	0.720
	Band2/1RB#49	Left Cheek	18700	1860	23.57	0.04	24.0	0.389	1.104	0.429
	Band2/1RB#49	Left Tilted	18700	1860	23.57	0.05	24.0	0.422	1.104	0.466
	Band2/50%RB#0	Right Cheek	19100	1900	22.44	-0.06	22.5	0.511	1.014	0.518
	Band2/50%RB#0	Right Tilted	19100	1900	22.44	0.02	22.5	0.622	1.014	0.631
	Band2/50%RB#0	Left Cheek	19100	1900	22.44	0.09	22.5	0.371	1.014	0.376
	Band2/50%RB#0	Left Tilted	19100	1900	22.44	-0.18	22.5	0.405	1.014	0.411
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 5(10MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
7	Band5/1RB#24	Right Cheek	20525	836.5	23.63	0.07	24.0	0.505	1.089	0.550
	Band5/1RB#24	Right Tilted	20525	836.5	23.63	0.05	24.0	0.438	1.089	0.477
	Band5/1RB#24	Left Cheek	20525	836.5	23.63	-0.14	24.0	0.269	1.089	0.293
	Band5/1RB#24	Left Tilted	20525	836.5	23.63	0.14	24.0	0.224	1.089	0.244
	Band5/50%RB#12	Right Cheek	20525	836.5	22.88	-0.11	23.0	0.486	1.028	0.500
	Band5/50%RB#12	Right Tilted	20525	836.5	22.88	0.06	23.0	0.411	1.028	0.423
	Band5/50%RB#12	Left Cheek	20525	836.5	22.88	-0.19	23.0	0.234	1.028	0.241
	Band5/50%RB#12	Left Tilted	20525	836.5	22.88	-0.06	23.0	0.177	1.028	0.182
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 7(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
8	Band7/1RB#49	Right Cheek	20850	2510	22.57	-0.04	23.0	0.854	1.104	0.943
	Band7/1RB#49	Right Tilted	20850	2510	22.57	0.04	23.0	1.05	1.104	1.159
	Band7/1RB#49	Left Cheek	20850	2510	22.57	0.18	23.0	0.223	1.104	0.246
	Band7/1RB#49	Left Tilted	20850	2510	22.57	0.04	23.0	0.355	1.104	0.392
	Band7/1RB#49	Right Cheek	21100	2535	22.45	0.17	23.0	0.797	1.135	0.905
	Band7/1RB#49	Right Cheek	21350	2560	22.30	-0.06	23.0	0.688	1.175	0.808
	Band7/1RB#49	Right Tilted	21100	2535	22.45	0.14	23.0	0.813	1.135	0.923
	Band7/1RB#49	Right Tilted	21350	2560	22.30	0.07	23.0	0.752	1.175	0.884
	Band7/1RB#49	Right Tilted	20850	2510	22.57	0.13	23.0	1.03	1.104	1.137
	Band7/50%RB#0	Right Cheek	21350	2560	21.47	-0.13	21.5	0.623	1.007	0.627
	Band7/50%RB#0	Right Tilted	21350	2560	21.47	-0.09	21.5	0.654	1.007	0.659
	Band7/50%RB#0	Left Cheek	21350	2560	21.47	0.18	21.5	0.213	1.007	0.214
	Band7/50%RB#0	Left Tilted	21350	2560	21.47	-0.12	21.5	0.341	1.007	0.343
	Band7/100%RB#0	Right Cheek	20850	2510	21.41	-0.12	21.5	0.612	1.021	0.625
	Band7/100%RB#0	Right Tilted	20850	2510	21.41	0.07	21.5	0.633	1.021	0.646
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ TDD-LTE Band41(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
9	Band41/1RB#49	Right Cheek	40620	2593	22.44	0.01	23.0	0.621	1.138	1.008	0.712
	Band41/1RB#49	Right Tilted	40620	2593	22.44	0.15	23.0	0.690	1.138	1.008	0.792
	Band41/1RB#49	Left Cheek	40620	2593	22.44	0.04	23.0	0.291	1.138	1.008	0.334
	Band41/1RB#49	Left Tilted	40620	2593	22.44	-0.12	23.0	0.337	1.138	1.008	0.387
	Band41/50%RB#24	Right Cheek	40620	2593	21.42	-0.06	21.5	0.611	1.019	1.008	0.628
	Band41/50%RB#24	Right Tilted	40620	2593	21.42	0.04	21.5	0.634	1.019	1.008	0.651
	Band41/50%RB#24	Left Cheek	40620	2593	21.42	0.08	21.5	0.253	1.019	1.008	0.260
	Band41/50%RB#24	Left Tilted	40620	2593	21.42	0.05	21.5	0.304	1.019	1.008	0.312
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ FDD-LTE Band 66(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
10	Band66/1RB#49	Right Cheek	132322	1745	23.59	-0.19	24.0	0.692	1.099	0.761
	Band66/1RB#49	Right Tilted	132322	1745	23.59	0.09	24.0	0.723	1.099	0.795
	Band66/1RB#49	Left Cheek	132322	1745	23.59	0.00	24.0	0.352	1.099	0.387
	Band66/1RB#49	Left Tilted	132322	1745	23.59	-0.02	24.0	0.408	1.099	0.448
	Band66/50%RB#0	Right Cheek	132322	1745	22.67	-0.05	23.0	0.674	1.079	0.727
	Band66/50%RB#0	Right Tilted	132322	1745	22.67	0.00	23.0	0.706	1.079	0.762
	Band66/50%RB#0	Left Cheek	132322	1745	22.67	0.11	23.0	0.653	1.079	0.705
	Band66/50%RB#0	Left Tilted	132322	1745	22.67	-0.02	23.0	0.372	1.079	0.401
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n2 DFT-BPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n2 DFT-BPSK /1@49 20M	Right Cheek	380000	1900	21.76	-0.06	22.5	0.602	1.186	0.714
11	NR n2 DFT-BPSK /1@49 20M	Right Tilted	380000	1900	21.76	0.18	22.5	0.668	1.186	0.792
	NR n2 DFT-BPSK /1@49 20M	Left Cheek	380000	1900	21.76	0.03	22.5	0.378	1.186	0.448
	NR n2 DFT-BPSK /1@49 20M	Left Tilted	380000	1900	21.76	0.20	22.5	0.404	1.186	0.479
	NR n2 DFT-BPSK /25@12 20M	Right Cheek	372000	1860	20.57	0.12	21.0	0.587	1.104	0.648
	NR n2 DFT-BPSK /25@12 20M	Right Tilted	372000	1860	20.57	-0.09	21.0	0.654	1.104	0.722
	NR n2 DFT-BPSK /25@12 20M	Left Cheek	372000	1860	20.57	0.02	21.0	0.352	1.104	0.389
	NR n2 DFT-BPSK /25@12 20M	Left Tilted	372000	1860	20.57	0.15	21.0	0.372	1.104	0.411
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n5 DFT-BPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
12	NR n5 DFT-BPSK /1@1 20M	Right Cheek	166800	834	22.51	0.07	23.0	0.346	1.119	0.387
	NR n5 DFT-BPSK /1@1 20M	Right Tilted	166800	834	22.51	-0.19	23.0	0.308	1.119	0.345
	NR n5 DFT-BPSK /1@1 20M	Left Cheek	166800	834	22.51	0.12	23.0	0.165	1.119	0.185
	NR n5 DFT-BPSK /1@1 20M	Left Tilted	166800	834	22.51	-0.14	23.0	0.123	1.119	0.138
	NR n5 DFT-BPSK /25@12 20M	Right Cheek	166800	834	22.59	0.11	23.0	0.315	1.099	0.346
	NR n5 DFT-BPSK /25@12 20M	Right Tilted	166800	834	22.59	0.01	23.0	0.282	1.099	0.310
	NR n5 DFT-BPSK /25@12 20M	Left Cheek	166800	834	22.59	0.18	23.0	0.149	1.099	0.164
	NR n5 DFT-BPSK /25@12 20M	Left Tilted	166800	834	22.59	-0.11	23.0	0.101	1.099	0.111
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n7 DFT-BPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n7 DFT-BPSK /1@1 20M	Right Cheek	502000	2510	20.69	0.11	21.0	0.611	1.074	0.656
13	NR n7 DFT-BPSK /1@1 20M	Right Tilted	502000	2510	20.69	-0.02	21.0	0.734	1.074	0.788
	NR n7 DFT-BPSK /1@1 20M	Left Cheek	502000	2510	20.69	-0.07	21.0	0.234	1.074	0.251
	NR n7 DFT-BPSK /1@1 20M	Left Tilted	502000	2510	20.69	-0.09	21.0	0.328	1.074	0.352
	NR n7 DFT-BPSK /25@12 20M	Right Cheek	512000	2560	20.84	0.14	21.0	0.583	1.038	0.605
	NR n7 DFT-BPSK /25@12 20M	Right Tilted	512000	2560	20.84	0.06	21.0	0.696	1.038	0.722
	NR n7 DFT-BPSK /25@12 20M	Left Cheek	512000	2560	20.84	0.07	21.0	0.204	1.038	0.212
	NR n7 DFT-BPSK /25@12 20M	Left Tilted	512000	2560	20.84	0.16	21.0	0.297	1.038	0.308
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n41 DFT-BPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n41 DFT-BPSK /1@271 100M	Right Cheek	509202	2546.01	24.78	-0.17	25.0	0.412	1.052	0.433
14	NR n41 DFT-BPSK /1@271 100M	Right Tilted	509202	2546.01	24.78	-0.02	25.0	0.463	1.052	0.487
	NR n41 DFT-BPSK /1@271 100M	Left Cheek	509202	2546.01	24.78	-0.15	25.0	0.186	1.052	0.196
	NR n41 DFT-BPSK /1@271 100M	Left Tilted	509202	2546.01	24.78	0.12	25.0	0.281	1.052	0.296
	NR n41 DFT-BPSK /137@67 100M	Right Cheek	528000	2640.00	25.50	0.17	26.0	0.386	1.122	0.433
	NR n41 DFT-BPSK /137@67 100M	Right Tilted	528000	2640.00	25.50	0.14	26.0	0.425	1.122	0.477
	NR n41 DFT-BPSK /137@67 100M	Left Cheek	528000	2640.00	25.50	0.02	26.0	0.158	1.122	0.177
	NR n41 DFT-BPSK /137@67 100M	Left Tilted	528000	2640.00	25.50	-0.07	26.0	0.268	1.122	0.301
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n66 DFT-BPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n66 DFT-BPSK /1@1 40M	Right Cheek	346000	1730	21.32	0.00	21.5	0.612	1.042	0.638
15	NR n66 DFT-BPSK /1@1 40M	Right Tilted	346000	1730	21.32	-0.01	21.5	0.743	1.042	0.774
	NR n66 DFT-BPSK /1@1 40M	Left Cheek	346000	1730	21.32	0.03	21.5	0.321	1.042	0.334
	NR n66 DFT-BPSK /1@1 40M	Left Tilted	346000	1730	21.32	-0.19	21.5	0.386	1.042	0.402
	NR n66 DFT-BPSK /50@25 40M	Right Cheek	346000	1730	21.87	0.13	22.5	0.589	1.156	0.681
	NR n66 DFT-BPSK /50@25 40M	Right Tilted	346000	1730	21.87	0.13	22.5	0.655	1.156	0.757
	NR n66 DFT-BPSK /50@25 40M	Left Cheek	346000	1730	21.87	0.16	22.5	0.311	1.156	0.360
	NR n66 DFT-BPSK /50@25 40M	Left Tilted	346000	1730	21.87	-0.04	22.5	0.364	1.156	0.421
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n71 DFT-BPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
16	NR n71 DFT-BPSK /1@1 20M	Right Cheek	137600	688	22.51	0.01	23.0	0.217	1.119	0.243
	NR n71 DFT-BPSK /1@1 20M	Right Tilted	137600	688	22.51	-0.16	23.0	0.182	1.119	0.204
	NR n71 DFT-BPSK /1@1 20M	Left Cheek	137600	688	22.51	0.14	23.0	0.106	1.119	0.119
	NR n71 DFT-BPSK /1@1 20M	Left Tilted	137600	688	22.51	-0.01	23.0	0.085	1.119	0.095
	NR n71 DFT-BPSK /25@12 20M	Right Cheek	137600	688	22.67	-0.15	23.0	0.203	1.079	0.219
	NR n71 DFT-BPSK /25@12 20M	Right Tilted	137600	688	22.67	-0.11	23.0	0.169	1.079	0.182
	NR n71 DFT-BPSK /25@12 20M	Left Cheek	137600	688	22.67	0.10	23.0	0.097	1.079	0.105
	NR n71 DFT-BPSK /25@12 20M	Left Tilted	137600	688	22.67	-0.14	23.0	0.078	1.079	0.084
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3450MHz~3550MHz) DFT-BPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	Right Cheek	633334	3500.01	24.71	0.16	25.0	0.153	1.069	0.164
	NR n77 DFT-BPSK /1@1 100M	Right Tilted	633334	3500.01	24.71	0.11	25.0	0.091	1.069	0.097
	NR n77 DFT-BPSK /1@1 100M	Left Cheek	633334	3500.01	24.71	-0.03	25.0	0.768	1.069	0.821
	NR n77 DFT-BPSK /1@1 100M	Left Tilted	633334	3500.01	24.71	0.12	25.0	0.533	1.069	0.570
	NR n77 DFT-BPSK /137@67 100M	Right Cheek	633334	3500.01	25.56	0.04	26.0	0.162	1.107	0.179
	NR n77 DFT-BPSK /137@67 100M	Right Tilted	633334	3500.01	25.56	0.19	26.0	0.103	1.107	0.114
17	NR n77 DFT-BPSK /137@67 100M	Left Cheek	633334	3500.01	25.56	-0.05	26.0	0.924	1.107	1.023
	NR n77 DFT-BPSK /137@67 100M	Left Tilted	633334	3500.01	25.56	0.17	26.0	0.684	1.107	0.757
	NR n77 DFT-BPSK /137@67 100M	Left Cheek	633334	3500.01	25.56	-0.03	26.0	0.911	1.107	1.008
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3700MHz~3980MHz) DFT-BPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	Right Cheek	650000	3750	24.42	0.02	24.5	0.285	1.019	0.290
	NR n77 DFT-BPSK /1@1 100M	Right Tilted	650000	3750	24.42	0.16	24.5	0.108	1.019	0.110
	NR n77 DFT-BPSK /1@1 100M	Left Cheek	650000	3750	24.42	-0.08	24.5	0.456	1.019	0.465
	NR n77 DFT-BPSK /1@1 100M	Left Tilted	650000	3750	24.42	-0.17	24.5	0.345	1.019	0.352
	NR n77 DFT-BPSK /137@67 100M	Right Cheek	650000	3750	25.24	-0.13	25.5	0.324	1.062	0.344
	NR n77 DFT-BPSK /137@67 100M	Right Tilted	650000	3750	25.24	0.15	25.5	0.244	1.062	0.259
18	NR n77 DFT-BPSK /137@67 100M	Left Cheek	650000	3750	25.24	-0.17	25.5	0.604	1.062	0.641
	NR n77 DFT-BPSK /137@67 100M	Left Tilted	650000	3750	25.24	-0.06	25.5	0.374	1.062	0.397
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WLAN 2.4 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b ANT1	Right Cheek	1	2412	16.07	0.08	16.5	0.038	1.104	1.000	0.042
	2.4GHz/802.11b ANT1	Right Tilted	1	2412	16.07	-0.16	16.5	0.021	1.104	1.000	0.023
	2.4GHz/802.11b ANT1	Left Cheek	1	2412	16.07	-0.01	16.5	0.053	1.104	1.000	0.059
	2.4GHz/802.11b ANT1	Left Tilted	1	2412	16.07	0.05	16.5	0.045	1.104	1.000	0.050
	2.4GHz/802.11b ANT2	Right Cheek	1	2412	16.32	0.15	16.5	0.076	1.042	1.000	0.079
	2.4GHz/802.11b ANT2	Right Tilted	1	2412	16.32	-0.01	16.5	0.011	1.042	1.000	0.011
19	2.4GHz/802.11b ANT2	Left Cheek	1	2412	16.32	0.00	16.5	0.113	1.042	1.000	0.118
	2.4GHz/802.11b ANT2	Left Tilted	1	2412	16.32	0.00	16.5	0.017	1.042	1.000	0.018
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ Bluetooth Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	Right Cheek	39	2441	3.22	-0.01	3.5	0.021	1.067	1.000	0.022
	BT/GFSK	Right Tilted	39	2441	3.22	-0.16	3.5	0.008	1.067	1.000	0.009
20	BT/GFSK	Left Cheek	39	2441	3.22	-0.04	3.5	0.037	1.067	1.000	0.039
	BT/GFSK	Left Tilted	39	2441	3.22	0.02	3.5	0.012	1.067	1.000	0.013
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.2 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a ANT1	Right Cheek	40	5200	12.10	-0.14	12.5	0.003	1.096	1.000	0.003
	5.2GHz/802.11a ANT1	Right Tilted	40	5200	12.10	0.08	12.5	0.001	1.096	1.000	0.001
	5.2GHz/802.11a ANT1	Left Cheek	40	5200	12.10	0.02	12.5	0.010	1.096	1.000	0.011
	5.2GHz/802.11a ANT1	Left Tilted	40	5200	12.10	0.00	12.5	0.007	1.096	1.000	0.008
	5.2GHz/802.11a ANT2	Right Cheek	40	5200	12.44	0.06	12.5	0.052	1.014	1.000	0.053
	5.2GHz/802.11a ANT2	Right Tilted	40	5200	12.44	-0.19	12.5	0.013	1.014	1.000	0.013
21	5.2GHz/802.11a ANT2	Left Cheek	40	5200	12.44	0.01	12.5	0.060	1.014	1.000	0.061
	5.2GHz/802.11a ANT2	Left Tilted	40	5200	12.44	0.07	12.5	0.018	1.014	1.000	0.018
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.8 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a ANT1	Right Cheek	157	5785	13.50	-0.18	14.0	0.035	1.122	1.000	0.039
	5.8GHz/802.11a ANT1	Right Tilted	157	5785	13.50	0.12	14.0	0.068	1.122	1.000	0.076
	5.8GHz/802.11a ANT1	Left Cheek	157	5785	13.50	0.00	14.0	0.048	1.122	1.000	0.054
	5.8GHz/802.11a ANT1	Left Tilted	157	5785	13.50	0.00	14.0	0.079	1.122	1.000	0.089
	5.8GHz/802.11a ANT2	Right Cheek	165	5825	12.56	-0.08	13.0	0.086	1.107	1.000	0.095
	5.8GHz/802.11a ANT2	Right Tilted	165	5825	12.56	-0.12	13.0	0.015	1.107	1.000	0.017
22	5.8GHz/802.11a ANT2	Left Cheek	165	5825	12.56	0.00	13.0	0.117	1.107	1.000	0.130
	5.8GHz/802.11a ANT2	Left Tilted	165	5825	12.56	-0.01	13.0	0.020	1.107	1.000	0.022
ANSI / IEEE C95.1 – SAFETY LIMIT					1.6 W/kg (mW/g)						
Spatial Peak					Averaged over 1g						
Uncontrolled Exposure/General Population											

Note:

- Per KDB 447498 D04v01, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
- Per KDB 248227 D01v02r02, for 802.11b DSSS , when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in that exposure configuration.
- Per KDB 248227 D01v02r02, OFDM SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. Cuz the maximum output power specified for OFDM and DSSS are 25.12mW(14dBm) and 44.67mW(16.5dBm), the scaled SAR would be $0.118 \times (22.39/35.48) = 0.066$ W/Kg <1.2 W/kg, therefore, SAR is not required for OFDM.
- According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.

15.2 Standalone Body SAR

➤ GSM Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/4 slots	Front	190	836.6	30.05	-0.03	30.5	0.246	1.109	0.273
23	GPRS850/4 slots	Back	190	836.6	30.05	-0.01	30.5	0.319	1.109	0.354
	GPRS1900/2 slots	Front	512	1850.2	30.01	-0.04	30.5	0.652	1.119	0.730
24	GPRS1900/2 slots	Back	512	1850.2	30.01	-0.07	30.5	0.760	1.119	0.850
	GPRS1900/2 slots	Back	512	1850.2	30.01	0.07	30.5	0.723	1.119	0.809
	GPRS1900/2 slots	Back	512	1850.2	30.01	0.18	30.5	0.707	1.119	0.791
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	Front	9262	1852.4	24.27	0.10	24.5	0.211	1.054	0.222
25	Band II/RMC	Back	9262	1852.4	24.27	0.07	24.5	0.278	1.054	0.293
	Band IV/RMC	Front	1413	1732.6	23.22	0.00	23.5	0.221	1.067	0.236
26	Band IV/RMC	Back	1413	1732.6	23.22	-0.04	23.5	0.310	1.067	0.331
	Band V/RMC	Front	4183	836.6	23.01	-0.03	23.5	0.088	1.119	0.098
27	Band V/RMC	Back	4183	836.6	23.01	-0.02	23.5	0.138	1.119	0.154
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#49	Front	18700	1860	23.57	0.16	24.0	0.137	1.104	0.151
28	Band2/1RB#49	Back	18700	1860	23.57	0.05	24.0	0.230	1.104	0.254
	Band2/50%RB#0	Front	19100	1900	22.44	-0.16	22.5	0.115	1.014	0.117
	Band2/50%RB#0	Back	19100	1900	22.44	-0.15	22.5	0.211	1.014	0.214
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 5(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band5/1RB#24	Front	20525	836.5	23.63	0.02	24.0	0.103	1.089	0.112
29	Band5/1RB#24	Back	20525	836.5	23.63	0.00	24.0	0.149	1.089	0.162
	Band5/50%RB#12	Front	20525	836.5	22.88	-0.20	23.0	0.086	1.028	0.088
	Band5/50%RB#12	Back	20525	836.5	22.88	0.17	23.0	0.135	1.028	0.139
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 7(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#49	Front	20850	2510	22.57	-0.03	23.0	0.381	1.104	0.421
30	Band7/1RB#49	Back	20850	2510	22.57	0.18	23.0	0.408	1.104	0.450
	Band7/50%RB#0	Front	21350	2560	21.47	-0.16	21.5	0.318	1.007	0.320
	Band7/50%RB#0	Back	21350	2560	21.47	-0.16	21.5	0.386	1.007	0.389
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ TDD-LTE Band 41(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band41/1RB#49	Front	40620	2593	22.44	-0.04	23.0	0.116	1.138	1.008	0.133
31	Band41/1RB#49	Back	40620	2593	22.44	0.07	23.0	0.305	1.138	1.008	0.350
	Band41/50%RB#24	Front	40620	2593	21.42	0.14	21.5	0.108	1.019	1.008	0.111
	Band41/50%RB#24	Back	40620	2593	21.42	0.09	21.5	0.286	1.019	1.008	0.294
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ FDD-LTE Band 66(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band66/1RB#49	Front	132322	1745	23.59	-0.08	24.0	0.146	1.099	0.160
32	Band66/1RB#49	Back	132322	1745	23.59	0.01	24.0	0.194	1.099	0.213
	Band66/50%RB#0	Front	132322	1745	22.67	0.16	23.0	0.122	1.079	0.132
	Band66/50%RB#0	Back	132322	1745	22.67	-0.20	23.0	0.176	1.079	0.190
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n2 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n2 DFT-BPSK /1@49 20M	Front	380000	1900	21.76	0.14	22.5	0.125	1.186	0.148
33	NR n2 DFT-BPSK /1@49 20M	Back	380000	1900	21.76	0.00	22.5	0.166	1.186	0.197
	NR n2 DFT-BPSK /25@12 20M	Front	372000	1860	20.57	0.02	21.0	0.113	1.104	0.125
	NR n2 DFT-BPSK /25@12 20M	Back	372000	1860	20.57	0.06	21.0	0.153	1.104	0.169
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n5 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n5 DFT-BPSK /1@1 20M	Front	166800	834	22.51	0.19	23.0	0.084	1.119	0.094
34	NR n5 DFT-BPSK /1@1 20M	Back	166800	834	22.51	-0.10	23.0	0.148	1.119	0.166
	NR n5 DFT-BPSK /25@12 20M	Front	166800	834	22.59	-0.12	22.0	0.076	0.873	0.066
	NR n5 DFT-BPSK /25@12 20M	Back	166800	834	22.59	0.11	22.0	0.132	0.873	0.115
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n7 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n7 DFT-BPSK /1@1 20M	Front	502000	2510	20.69	-0.11	21.0	0.335	1.074	0.360
35	NR n7 DFT-BPSK /1@1 20M	Back	502000	2510	20.69	-0.01	21.0	0.437	1.074	0.469
	NR n7 DFT-BPSK /25@12 20M	Front	512000	2560	20.84	-0.19	21.0	0.315	1.038	0.327
	NR n7 DFT-BPSK /25@12 20M	Back	512000	2560	20.84	0.14	21.0	0.421	1.038	0.437
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n41 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n41 DFT-BPSK /1@271 100M	Front	509202	2546.01	24.78	0.19	25.0	0.231	1.052	0.243
36	NR n41 DFT-BPSK /1@271 100M	Back	509202	2546.01	24.78	0.04	25.0	0.266	1.052	0.280
	NR n41 DFT-BPSK /137@67 100M	Front	528000	2640.00	25.50	0.15	26.0	0.215	1.122	0.241
	NR n41 DFT-BPSK /137@67 100M	Back	528000	2640.00	25.50	0.11	26.0	0.243	1.122	0.273
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n66 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n66 DFT-BPSK /1@1 40M	Front	346000	1730	21.32	-0.15	21.5	0.186	1.042	0.194
37	NR n66 DFT-BPSK /1@1 40M	Back	346000	1730	21.32	-0.15	21.5	0.217	1.042	0.226
	NR n66 DFT-BPSK /50@25 40M	Front	346000	1730	21.87	0.17	22.5	0.172	1.156	0.199
	NR n66 DFT-BPSK /50@25 40M	Back	346000	1730	21.87	-0.16	22.5	0.192	1.156	0.222
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n71 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n71 DFT-BPSK /1@1 20M	Front	137600	688	22.51	-0.03	23.0	0.043	1.119	0.048
38	NR n71 DFT-BPSK /1@1 20M	Back	137600	688	22.51	0.00	23.0	0.079	1.119	0.088
	NR n71 DFT-BPSK /25@12 20M	Front	137600	688	22.67	-0.18	23.0	0.037	1.079	0.040
	NR n71 DFT-BPSK /25@12 20M	Back	137600	688	22.67	-0.08	23.0	0.068	1.079	0.073
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3450MHz~3550MHz) DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	Front	633334	3500.01	24.71	0.05	25.0	0.388	1.069	0.415
	NR n77 DFT-BPSK /1@1 100M	Back	633334	3500.01	24.71	-0.15	25.0	0.503	1.069	0.538
	NR n77 DFT-BPSK /137@67 100M	Front	633334	3500.01	25.56	-0.07	26.0	0.432	1.107	0.478
39	NR n77 DFT-BPSK /137@67 100M	Back	633334	3500.01	25.56	-0.13	26.0	0.516	1.107	0.571
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3700MHz~3980MHz) DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	Front	650000	3750	24.42	-0.09	24.5	0.207	1.019	0.211
	NR n77 DFT-BPSK /1@1 100M	Back	650000	3750	24.42	0.20	24.5	0.233	1.019	0.237
	NR n77 DFT-BPSK /137@67 100M	Front	650000	3750	25.24	0.01	25.5	0.217	1.062	0.230
40	NR n77 DFT-BPSK /137@67 100M	Back	650000	3750	25.24	-0.07	25.5	0.250	1.062	0.266
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WLAN 2.4GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b ANT1	Front	1	2412	16.07	0.00	16.5	0.007	1.104	1.000	0.008
	2.4GHz/802.11b ANT1	Back	1	2412	16.07	-0.01	16.5	0.010	1.104	1.000	0.011
	2.4GHz/802.11b ANT2	Front	1	2412	16.32	-0.06	16.5	0.032	1.042	1.000	0.033
41	2.4GHz/802.11b ANT2	Back	1	2412	16.32	-0.01	16.5	0.048	1.042	1.000	0.050
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ Bluetooth Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	Front	39	2441	3.22	-0.11	3.5	0.001	1.067	1.000	0.001
42	BT/GFSK	Back	39	2441	3.22	0.03	3.5	0.009	1.067	1.000	0.010
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.2GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a ANT1	Front	40	5200	12.10	-0.05	12.5	0.012	1.096	1.000	0.013
	5.2GHz/802.11a ANT1	Back	40	5200	12.10	0.00	12.5	0.017	1.096	1.000	0.019
	5.2GHz/802.11a ANT2	Front	40	5200	12.44	-0.12	12.5	0.013	1.014	1.000	0.013
43	5.2GHz/802.11a ANT2	Back	40	5200	12.44	-0.03	12.5	0.020	1.014	1.000	0.020
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.8GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a ANT1	Front	157	5785	13.50	-0.18	14.0	0.021	1.122	1.000	0.024
	5.8GHz/802.11a ANT1	Back	157	5785	13.50	0.00	14.0	0.031	1.122	1.000	0.035
	5.8GHz/802.11a ANT2	Front	165	5825	12.56	-0.02	13.0	0.135	1.107	1.000	0.149
44	5.8GHz/802.11a ANT2	Back	165	5825	12.56	-0.15	13.0	0.164	1.107	1.000	0.182
ANSI / IEEE C95.1 – SAFETY LIMIT					1.6 W/kg (mW/g)						
Spatial Peak					Averaged over 1g						
Uncontrolled Exposure/General Population											

Note:

1. Body-worn SAR testing was performed at 10mm separation, and this distance is determined by the handset manufacturer that there will be body-worn accessories that users may acquire at the time of equipment certification, to enable users to purchase aftermarket body-worn accessories with the required minimum separation.
2. Per KDB 941225 D06v02r01, when the same wireless modes and device transmission configurations are required for testing body-worn accessories and hotspot mode, it is not necessary to test body-worn accessory SAR for the same device orientation if the test separation distance for hotspot mode is more conservative than that used for body-worn accessories.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call is selected to be tested.
4. Per KDB 648474 D04v01r03, when the *Reported* SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. The WLAN SAR perform the front and back position, due considered the simultaneous SAR for body-worn.
6. Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
7. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
8. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
9. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
10. Highlight part of test data means repeated test.

15.3 Body SAR in Hotspot Mode

➤ GSM Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/4 slots	Front	190	836.6	30.05	-0.03	30.5	0.246	1.109	0.273
23	GPRS850/4 slots	Back	190	836.6	30.05	-0.01	30.5	0.319	1.109	0.354
	GPRS850/4 slots	Left	190	836.6	30.05	0.09	30.5	0.122	1.109	0.135
	GPRS850/4 slots	Top	190	836.6	30.05	0.12	30.5	0.268	1.109	0.297
	GPRS1900/2 slots	Front	512	1850.2	30.01	-0.04	30.5	0.652	1.119	0.730
24	GPRS1900/2 slots	Back	512	1850.2	30.01	-0.07	30.5	0.760	1.119	0.850
	GPRS1900/2 slots	Left	512	1850.2	30.01	0.13	30.5	0.231	1.119	0.258
	GPRS1900/2 slots	Top	512	1850.2	30.01	-0.02	30.5	0.651	1.119	0.728
	GPRS1900/2 slots	Back	512	1850.2	30.01	0.07	30.5	0.723	1.119	0.809
	GPRS1900/2 slots	Back	512	1850.2	30.01	0.18	30.5	0.707	1.119	0.791
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	Front	9262	1852.4	24.27	0.10	24.5	0.211	1.054	0.222
	Band II/RMC	Back	9262	1852.4	24.27	0.07	24.5	0.278	1.054	0.293
	Band II/RMC	Left	9262	1852.4	24.27	0.18	24.5	0.186	1.054	0.196
45	Band II/RMC	Top	9262	1852.4	24.27	0.18	24.5	0.393	1.054	0.414
	Band IV/RMC	Front	1413	1732.6	23.22	0.00	23.5	0.221	1.067	0.236
	Band IV/RMC	Back	1413	1732.6	23.22	-0.04	23.5	0.310	1.067	0.331
	Band IV/RMC	Left	1413	1732.6	23.22	0.00	23.5	0.153	1.067	0.163
46	Band IV/RMC	Top	1413	1732.6	23.22	-0.05	23.5	0.373	1.067	0.398
	Band V/RMC	Front	4183	836.6	23.01	-0.03	23.5	0.088	1.119	0.098
27	Band V/RMC	Back	4183	836.6	23.01	-0.02	23.5	0.138	1.119	0.154
	Band V/RMC	Left	4183	836.6	23.01	-0.16	23.5	0.071	1.119	0.079
	Band V/RMC	Top	4183	836.6	23.01	-0.12	23.5	0.112	1.119	0.125
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#49	Front	18700	1860	23.57	0.16	24.0	0.137	1.104	0.151
	Band2/1RB#49	Back	18700	1860	23.57	0.05	24.0	0.230	1.104	0.254
	Band2/1RB#49	Left	18700	1860	23.57	0.08	24.0	0.062	1.104	0.068
47	Band2/1RB#49	Top	18700	1860	23.57	0.12	24.0	0.339	1.104	0.374
	Band2/50%RB#0	Front	19100	1900	22.44	-0.16	22.5	0.115	1.014	0.117
	Band2/50%RB#0	Back	19100	1900	22.44	-0.15	22.5	0.211	1.014	0.214
	Band2/50%RB#0	Left	19100	1900	22.44	0.17	22.5	0.058	1.014	0.059
	Band2/50%RB#0	Top	19100	1900	22.44	0.17	22.5	0.315	1.014	0.319
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 5(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band5/1RB#24	Front	20525	836.5	23.63	0.02	24.0	0.103	1.089	0.112
29	Band5/1RB#24	Back	20525	836.5	23.63	0.00	24.0	0.149	1.089	0.162
	Band5/1RB#24	Left	20525	836.5	23.63	-0.04	24.0	0.068	1.089	0.074
	Band5/1RB#24	Top	20525	836.5	23.63	-0.13	24.0	0.129	1.089	0.140
	Band5/50%RB#12	Front	20525	836.5	22.88	-0.20	23.0	0.086	1.028	0.088
	Band5/50%RB#12	Back	20525	836.5	22.88	0.17	23.0	0.135	1.028	0.139
	Band5/50%RB#12	Left	20525	836.5	22.88	0.07	23.0	0.038	1.028	0.039
	Band5/50%RB#12	Top	20525	836.5	22.88	0.15	23.0	0.118	1.028	0.121
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 7(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#49	Front	20850	2510	22.57	-0.03	23.0	0.381	1.104	0.421
	Band7/1RB#49	Back	20850	2510	22.57	0.18	23.0	0.408	1.104	0.450
	Band7/1RB#49	Left	20850	2510	22.57	0.03	23.0	0.051	1.104	0.056
48	Band7/1RB#49	Top	20850	2510	22.57	0.09	23.0	0.442	1.104	0.488
	Band7/50%RB#0	Front	21350	2560	21.47	-0.16	21.5	0.318	1.007	0.320
	Band7/50%RB#0	Back	21350	2560	21.47	-0.16	21.5	0.386	1.007	0.389
	Band7/50%RB#0	Left	21350	2560	21.47	-0.09	21.5	0.042	1.007	0.042
	Band7/50%RB#0	Top	21350	2560	21.47	-0.11	21.5	0.431	1.007	0.434
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ TDD-LTE Band 41(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band41/1RB#49	Front	40620	2593	22.44	-0.04	23.0	0.116	1.138	1.008	0.133
	Band41/1RB#49	Back	40620	2593	22.44	0.07	23.0	0.305	1.138	1.008	0.350
	Band41/1RB#49	Left	40620	2593	22.44	0.13	23.0	0.087	1.138	1.008	0.100
49	Band41/1RB#49	Top	40620	2593	22.44	0.00	23.0	0.334	1.138	1.008	0.383
	Band41/50%RB#24	Front	40620	2593	21.42	0.14	21.5	0.108	1.019	1.008	0.111
	Band41/50%RB#24	Back	40620	2593	21.42	0.09	21.5	0.286	1.019	1.008	0.294
	Band41/50%RB#24	Left	40620	2593	21.42	0.12	21.5	0.058	1.019	1.008	0.060
	Band41/50%RB#24	Top	40620	2593	21.42	-0.03	21.5	0.313	1.019	1.008	0.321
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ FDD-LTE Band 66(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band66/1RB#49	Front	132322	1745	23.59	-0.08	24.0	0.146	1.099	0.160
	Band66/1RB#49	Back	132322	1745	23.59	0.01	24.0	0.194	1.099	0.213
	Band66/1RB#49	Left	132322	1745	23.59	0.12	24.0	0.068	1.099	0.075
50	Band66/1RB#49	Top	132322	1745	23.59	0.15	24.0	0.281	1.099	0.309
	Band66/50%RB#0	Front	132322	1745	22.67	0.16	23.0	0.122	1.079	0.132
	Band66/50%RB#0	Back	132322	1745	22.67	-0.20	23.0	0.176	1.079	0.190
	Band66/50%RB#0	Left	132322	1745	22.67	0.08	23.0	0.061	1.079	0.066
	Band66/50%RB#0	Top	132322	1745	22.67	-0.04	23.0	0.271	1.079	0.292
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n2 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n2 DFT-BPSK /1@49 20M	Front	380000	1900	21.76	0.14	22.5	0.125	1.186	0.148
	NR n2 DFT-BPSK /1@49 20M	Back	380000	1900	21.76	0.00	22.5	0.166	1.186	0.197
	NR n2 DFT-BPSK /1@49 20M	Left	380000	1900	21.76	0.14	22.5	0.048	1.186	0.057
51	NR n2 DFT-BPSK /1@49 20M	Top	380000	1900	21.76	-0.09	22.5	0.321	1.186	0.381
	NR n2 DFT-BPSK /25@12 20M	Front	372000	1860	20.57	0.02	21.0	0.113	1.104	0.125
	NR n2 DFT-BPSK /25@12 20M	Back	372000	1860	20.57	0.06	21.0	0.153	1.104	0.169
	NR n2 DFT-BPSK /25@12 20M	Left	372000	1860	20.57	-0.13	21.0	0.043	1.104	0.047
	NR n2 DFT-BPSK /25@12 20M	Top	372000	1860	20.57	-0.20	21.0	0.318	1.104	0.351
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n5 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n5 DFT-BPSK /1@1 20M	Front	166800	834	22.51	0.19	23.0	0.084	1.119	0.094
34	NR n5 DFT-BPSK /1@1 20M	Back	166800	834	22.51	-0.10	23.0	0.148	1.119	0.166
	NR n5 DFT-BPSK /1@1 20M	Left	166800	834	22.51	0.17	23.0	0.048	1.119	0.054
	NR n5 DFT-BPSK /1@1 20M	Top	166800	834	22.51	0.15	23.0	0.105	1.119	0.117
	NR n5 DFT-BPSK /25@12 20M	Front	166800	834	22.59	-0.12	22.0	0.076	0.873	0.066
	NR n5 DFT-BPSK /25@12 20M	Back	166800	834	22.59	0.11	22.0	0.132	0.873	0.115
	NR n5 DFT-BPSK /25@12 20M	Left	166800	834	22.59	-0.04	22.0	0.044	0.873	0.038
	NR n5 DFT-BPSK /25@12 20M	Top	166800	834	22.59	-0.06	22.0	0.098	0.873	0.086
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n7 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n7 DFT-BPSK /1@1 20M	Front	502000	2510	20.69	-0.11	21.0	0.335	1.074	0.360
35	NR n7 DFT-BPSK /1@1 20M	Back	502000	2510	20.69	-0.01	21.0	0.437	1.074	0.469
	NR n7 DFT-BPSK /1@1 20M	Left	502000	2510	20.69	0.20	21.0	0.286	1.074	0.307
	NR n7 DFT-BPSK /1@1 20M	Top	502000	2510	20.69	0.19	21.0	0.392	1.074	0.421
	NR n7 DFT-BPSK /25@12 20M	Front	512000	2560	20.84	-0.19	21.0	0.315	1.038	0.327
	NR n7 DFT-BPSK /25@12 20M	Back	512000	2560	20.84	0.14	21.0	0.421	1.038	0.437
	NR n7 DFT-BPSK /25@12 20M	Left	512000	2560	20.84	0.11	21.0	0.255	1.038	0.265
	NR n7 DFT-BPSK /25@12 20M	Top	512000	2560	20.84	-0.07	21.0	0.362	1.038	0.376
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n41 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n41 DFT-BPSK /1@271 100M	Front	509202	2546.01	24.78	0.19	25.0	0.231	1.052	0.243
36	NR n41 DFT-BPSK /1@271 100M	Back	509202	2546.01	24.78	0.04	25.0	0.266	1.052	0.280
	NR n41 DFT-BPSK /1@271 100M	Left	509202	2546.01	24.78	-0.14	25.0	0.122	1.052	0.128
	NR n41 DFT-BPSK /1@271 100M	Top	509202	2546.01	24.78	0.02	25.0	0.217	1.052	0.228
	NR n41 DFT-BPSK /137@67 100M	Front	528000	2640.00	25.50	0.15	26.0	0.215	1.122	0.241
	NR n41 DFT-BPSK /137@67 100M	Back	528000	2640.00	25.50	0.11	26.0	0.243	1.122	0.273
	NR n41 DFT-BPSK /137@67 100M	Left	528000	2640.00	25.50	-0.19	26.0	0.103	1.122	0.116
	NR n41 DFT-BPSK /137@67 100M	Top	528000	2640.00	25.50	-0.13	26.0	0.201	1.122	0.226
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n66 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n66 DFT-BPSK /1@1 40M	Front	346000	1730	21.32	-0.15	21.5	0.186	1.042	0.194
	NR n66 DFT-BPSK /1@1 40M	Back	346000	1730	21.32	-0.15	21.5	0.217	1.042	0.226
	NR n66 DFT-BPSK /1@1 40M	Left	346000	1730	21.32	0.20	21.5	0.117	1.042	0.122
52	NR n66 DFT-BPSK /1@1 40M	Top	346000	1730	21.32	0.06	21.5	0.316	1.042	0.329
	NR n66 DFT-BPSK /50@25 40M	Front	346000	1730	21.87	0.17	22.5	0.172	1.156	0.199
	NR n66 DFT-BPSK /50@25 40M	Back	346000	1730	21.87	-0.16	22.5	0.192	1.156	0.222
	NR n66 DFT-BPSK /50@25 40M	Left	346000	1730	21.87	-0.13	22.5	0.103	1.156	0.119
	NR n66 DFT-BPSK /50@25 40M	Top	346000	1730	21.87	0.18	22.5	0.276	1.156	0.319
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n71 DFT-BPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n71 DFT-BPSK /1@1 20M	Front	137600	688	22.51	-0.03	23.0	0.043	1.119	0.048
38	NR n71 DFT-BPSK /1@1 20M	Back	137600	688	22.51	0.00	23.0	0.079	1.119	0.088
	NR n71 DFT-BPSK /1@1 20M	Left	137600	688	22.51	-0.03	23.0	0.012	1.119	0.013
	NR n71 DFT-BPSK /1@1 20M	Top	137600	688	22.51	0.14	23.0	0.037	1.119	0.041
	NR n71 DFT-BPSK /25@12 20M	Front	137600	688	22.67	-0.18	23.0	0.037	1.079	0.040
	NR n71 DFT-BPSK /25@12 20M	Back	137600	688	22.67	-0.08	23.0	0.068	1.079	0.073
	NR n71 DFT-BPSK /25@12 20M	Left	137600	688	22.67	0.09	23.0	0.010	1.079	0.011
	NR n71 DFT-BPSK /25@12 20M	Top	137600	688	22.67	0.14	23.0	0.031	1.079	0.033
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3450MHz~3550MHz) DFT-BPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	Front	633334	3500.01	24.71	0.05	25.0	0.388	1.069	0.415
	NR n77 DFT-BPSK /1@1 100M	Back	633334	3500.01	24.71	-0.15	25.0	0.503	1.069	0.538
	NR n77 DFT-BPSK /1@1 100M	Right	633334	3500.01	24.71	-0.17	25.0	0.851	1.069	0.910
	NR n77 DFT-BPSK /1@1 100M	Top	633334	3500.01	24.71	-0.15	25.0	0.056	1.069	0.060
	NR n77 DFT-BPSK /137@67 100M	Front	633334	3500.01	25.56	-0.07	26.0	0.432	1.107	0.478
	NR n77 DFT-BPSK /137@67 100M	Back	633334	3500.01	25.56	-0.13	26.0	0.516	1.107	0.571
53	NR n77 DFT-BPSK /137@67 100M	Right	633334	3500.01	25.56	0.07	26.0	0.872	1.107	0.965
	NR n77 DFT-BPSK /137@67 100M	Top	633334	3500.01	25.56	0.07	26.0	0.073	1.107	0.081
	NR n77 DFT-BPSK /137@67 100M	Right	633334	3500.01	25.56	-0.14	26.0	0.862	1.107	0.954
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3700MHz~3980MHz) DFT-BPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	Front	650000	3750	24.42	-0.09	24.5	0.207	1.019	0.211
	NR n77 DFT-BPSK /1@1 100M	Back	650000	3750	24.42	0.20	24.5	0.233	1.019	0.237
	NR n77 DFT-BPSK /1@1 100M	Right	650000	3750	24.42	-0.09	24.5	0.486	1.019	0.495
	NR n77 DFT-BPSK /1@1 100M	Top	650000	3750	24.42	-0.04	24.5	0.041	1.019	0.042
	NR n77 DFT-BPSK /137@67 100M	Front	650000	3750	25.24	0.01	25.5	0.217	1.062	0.230
	NR n77 DFT-BPSK /137@67 100M	Back	650000	3750	25.24	-0.07	25.5	0.250	1.062	0.266
54	NR n77 DFT-BPSK /137@67 100M	Right	650000	3750	25.24	0.18	25.5	0.509	1.062	0.541
	NR n77 DFT-BPSK /137@67 100M	Top	650000	3750	25.24	0.16	25.5	0.045	1.062	0.048
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤
➤ WLAN 2.4GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b ANT1	Front	1	2412	16.07	0.00	16.5	0.007	1.104	1.000	0.008
	2.4GHz/802.11b ANT1	Back	1	2412	16.07	-0.01	16.5	0.010	1.104	1.000	0.011
	2.4GHz/802.11b ANT1	Right	1	2412	16.07	0.05	16.5	0.008	1.104	1.000	0.009
	2.4GHz/802.11b ANT1	Top	1	2412	16.07	0.07	16.5	0.030	1.104	1.000	0.033
	2.4GHz/802.11b ANT2	Front	1	2412	16.32	-0.06	16.5	0.032	1.042	1.000	0.033
	2.4GHz/802.11b ANT2	Back	1	2412	16.32	-0.01	16.5	0.048	1.042	1.000	0.050
55	2.4GHz/802.11b ANT2	Right	1	2412	16.32	0.04	16.5	0.084	1.042	1.000	0.088
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ Bluetooth Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	Front	39	2441	3.22	-0.11	3.5	0.001	1.067	1.000	0.001
42	BT/GFSK	Back	39	2441	3.22	0.03	3.5	0.009	1.067	1.000	0.010
	BT/GFSK	Right	39	2441	3.22	-0.02	3.5	0.002	1.067	1.000	0.002
	BT/GFSK	Top	39	2441	3.22	0.19	3.5	0.008	1.067	1.000	0.009
ANSI / IEEE C95.1 – SAFETY LIMIT					1.6 W/kg (mW/g)						
Spatial Peak					Averaged over 1g						
Uncontrolled Exposure/General Population											

➤ WLAN 5.2GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a ANT1	Front	40	5200	12.10	-0.05	12.5	0.012	1.096	1.000	0.013
	5.2GHz/802.11a ANT1	Back	40	5200	12.10	0.00	12.5	0.017	1.096	1.000	0.019
	5.2GHz/802.11a ANT1	Right	40	5200	12.10	-0.07	12.5	0.010	1.096	1.000	0.011
	5.2GHz/802.11a ANT1	Top	40	5200	12.10	-0.11	12.5	0.015	1.096	1.000	0.016
	5.2GHz/802.11a ANT2	Front	40	5200	12.44	-0.12	12.5	0.013	1.014	1.000	0.013
43	5.2GHz/802.11a ANT2	Back	40	5200	12.44	-0.03	12.5	0.020	1.014	1.000	0.020
	5.2GHz/802.11a ANT2	Right	40	5200	12.44	0.18	12.5	0.018	1.014	1.000	0.018
ANSI / IEEE C95.1 – SAFETY LIMIT					1.6 W/kg (mW/g)						
Spatial Peak					Averaged over 1g						
Uncontrolled Exposure/General Population											

➤ WLAN 5.8GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a ANT1	Front	157	5785	13.50	-0.18	14.0	0.021	1.122	1.000	0.024
	5.8GHz/802.11a ANT1	Back	157	5785	13.50	0.00	14.0	0.031	1.122	1.000	0.035
	5.8GHz/802.11a ANT1	Right	157	5785	13.50	0.00	14.0	0.013	1.122	1.000	0.015
	5.8GHz/802.11a ANT1	Top	157	5785	13.50	0.05	14.0	0.028	1.122	1.000	0.031
	5.8GHz/802.11a ANT2	Front	165	5825	12.56	-0.02	13.0	0.135	1.107	1.000	0.149
44	5.8GHz/802.11a ANT2	Back	165	5825	12.56	-0.15	13.0	0.164	1.107	1.000	0.182
	5.8GHz/802.11a ANT2	Right	165	5825	12.56	0.09	13.0	0.151	1.107	1.000	0.167
ANSI / IEEE C95.1 – SAFETY LIMIT					1.6 W/kg (mW/g)						
Spatial Peak					Averaged over 1g						
Uncontrolled Exposure/General Population											

Note:

- Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR ≤0.8W/kg, other channels SAR testing is not necessary.
- Additional WLAN SAR testing was performed for simultaneous transmission analysis.
- For Hotspot SAR testing, per KDB 941225 D06v02r01, for EUT dimension ≥ 9cm*5cm, the test distance is 10mm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
- Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA output power is < 0.25dB higher than RMC 12.2kbps, or Reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA SAR evaluation can be

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Page 124 of 300

excluded.

5. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is $\geq 0.8 \text{ W/kg}$.
6. Per KDB 648474 D04v01r03, when the Reported SAR for a body-worn accessory measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, SAR testing with a headset connected to the handset is required.
7. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are $\leq 0.8 \text{ W/kg}$. Otherwise, SAR is measured for the highest output power channel.
8. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
9. Highlight part of test data means repeated test.

15.4 Repeated SAR measurement

Band/ Mode	Test Position	CH.	Freq. (MHz)	Measured SAR (W/kg)				
				Original	1 st Repeated		2 nd Repeated	
					Value	Ratio	Value	Ratio
Band II/RMC	Right Tilted	9538	1907.6	0.887	0.864	1.02	/	/
Band7/1RB#49	Right Tilted	20850	2510	1.05	1.03	1.02	/	/
NR n77 DFT-BPSK /137@67 100M	Left Cheek	633334	3500.01	0.924	0.911	1.01	/	/
NR n77 DFT-BPSK /137@67 100M	Right	633334	3500.01	0.872	0.862	1.01	/	/
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				1.6 W/kg (mW/g) Averaged over 1g				

Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg
2. Per KDB 865664 D01v01r04, if the ratio of *original* and *repeated* is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.

15.5 DUT holder perturbation uncertainty evaluation

1. According to TCB workshop, Oct 2016:
When the highest reported SAR of an antenna is > 1.2 W/kg, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands.
2. When the highest reported SAR of an antenna is > 1.2 W/kg, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands.
3. According to IEEE 1528-2013 section E.4.1, When it is unknown if a device holder perturbs the fields of a test device, the SAR uncertainty shall be assessed with a flat phantom (see Clause 5) by comparing the SAR with and without the device holder according to the following tests:
 - a) With device holder: 1 g or 10 g peak spatial-average SAR is measured with the handset fixed in the holder in a manner similar to the way it was held when tested for the head SAR position. The handset horizontal and vertical centerlines (see Clause 6) are aligned parallel to the bottom of the flat phantom and the device is in direct contact with the phantom. The test shall be performed with the antenna position and device operational configuration corresponding to that where the highest head SAR was previously measured for each frequency band.
 - b) Without device holder: 1 g or 10 g peak spatial-average SAR is measured with the handset placed on a low-loss foam block or support in the position identical to that tested with the device holder. The relative permittivity and loss tangent of the foam material shall be less than 1.2 and 10⁻⁵, respectively.

Test result:

Plot	Band/ Mode	Test Position	CH.	Freq. (MHz)	Test configuration	Measured SAR (W/kg) Averaged over 1g
56	Band IV/RMC	Front	1513	1752.6	With device holder	1.7
57	Band IV/RMC	Front	1513	1752.6	Without device holder	1.64

The following equation is used to computed the SAR tolerance,

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

Therefore, the $SAR_{\text{tolerance}} = 100 \times [(1.7 - 1.64) / 1.64] = 3.66\%$.

15.6 Multi-Band Simultaneous Transmission Considerations

➤ Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.

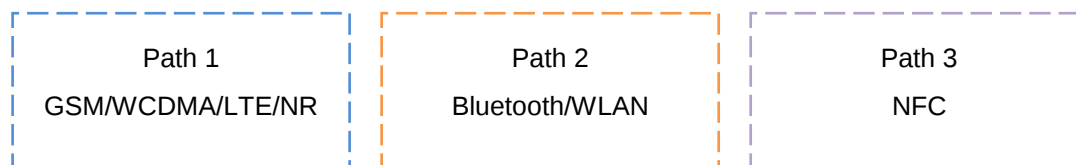


Fig.15.1 Simultaneous Transmission Paths

➤ Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D04v01, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D04v01 Appendix E, E.1), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$SAR_{est} = 1.6 \cdot P_{ant} / P_{th} [W/kg].$$

Mode	Max. Power (dBm)	Max. Power (mW)	Exposure Position	Head	Body	Hotspot
NFC	-38.74	0.00013	Estimated SAR (W/kg)	0.000	0.000	0.000

Note:

1. Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, $P_{th} = 1\text{mW}$.

➤ Multi-Band simultaneous Transmission Consideration

Simultaneous Transmission Consideration	Position	Applicable Combination
	Head	WWAN (Voice) + WLAN 2.4 G MIMO/ 5 GMIMO+NFC
		WWAN (Voice) + Bluetooth + NFC
	Body	WWAN (Voice) + WLAN 2.4 G MIMO/ 5 GMIMO+NFC
		WWAN (Voice) + Bluetooth + NFC
	Hotspot	WWAN (Voice) + WLAN 2.4 G MIMO/ 5 GMIMO+NFC
		WWAN (Data) + Bluetooth + NFC

Note:

1. WLAN ANT 1 and Bluetooth share the same antenna, and cannot transmit simultaneously.
2. GSM/WCDMA/LTE shares the same antenna, and cannot transmit simultaneously.
3. Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, SAR simultaneous transmission consideration for NFC is not required.
4. The Report SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D04v01, simultaneous transmission SAR is compliant if,
 - i. Scalar SAR summation < 1.6 W/kg.
 - ii. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iii. Simultaneously transmission SAR measurement, and the Reported multi-band SAR < 1.6 W/kg.

15.7 SAR Simultaneous Transmission Analysis

➤ Simultaneous Transmission

5G NR DC_5A_n7

Position		Standalone SAR(W/kg)		Σ SAR _{1g} (W/kg)
		LTE Band 5	NR n7 SA	5G NR DC_5A_n7
Head	Right Cheek	0.550	0.656	1.206
	Right Tilted	0.477	0.788	1.265
	Left Cheek	0.293	0.251	0.544
	Left Tilted	0.244	0.352	0.596
Body- worn	Front	0.112	0.360	0.472
	Back	0.162	0.469	0.631
Hotspot	Front	0.112	0.360	0.472
	Back	0.162	0.469	0.631
	Left	0.074	0.307	0.381
	Right	0.000	0.000	0.000
	Top	0.140	0.421	0.561
	Bottom	0.000	0.327	0.327

5G NR DC_5A_n41

Position		Standalone SAR(W/kg)		Σ SAR _{1g} (W/kg)
		LTE Band 5	NR n41 SA	5G NR DC_5A_n41
Head	Right Cheek	0.550	0.433	0.983
	Right Tilted	0.477	0.487	0.964
	Left Cheek	0.293	0.196	0.489
	Left Tilted	0.244	0.396	0.640
Body- worn	Front	0.112	0.243	0.355
	Back	0.162	0.280	0.442
Hotspot	Front	0.112	0.243	0.355
	Back	0.162	0.280	0.442
	Left	0.074	0.128	0.202
	Right	0.000	0.000	0.000
	Top	0.140	0.228	0.368
	Bottom	0.000	0.000	0.000

5G NR DC_41A_n41

Position		Standalone SAR(W/kg)		Σ SAR _{1g} (W/kg)
		LTE Band 41	NR n41 SA	5G NR DC_41A_n41
Head	Right Cheek	0.712	0.433	1.145
	Right Tilted	0.792	0.487	1.279
	Left Cheek	0.334	0.196	0.530
	Left Tilted	0.387	0.396	0.783
Body- worn	Front	0.133	0.243	0.376
	Back	0.350	0.280	0.630
Hotspot	Front	0.133	0.243	0.376
	Back	0.350	0.280	0.630
	Left	0.100	0.128	0.228
	Right	0.000	0.000	0.000
	Top	0.383	0.228	0.611
	Bottom	0.000	0.000	0.000

5G NR DC_5A_n77(n78)

Position		Standalone SAR(W/kg)		Σ SAR _{1g} (W/kg)
		LTE Band 5	NR n77 SA	5G NR DC_5A_n77(n78)
Head	Right Cheek	0.550	0.344	0.894
	Right Tilted	0.477	0.259	0.736
	Left Cheek	0.293	1.023	1.316
	Left Tilted	0.244	0.757	1.001
Body- worn	Front	0.112	0.478	0.590
	Back	0.162	0.571	0.733
Hotspot	Front	0.112	0.478	0.590
	Back	0.162	0.571	0.733
	Left	0.074	0.000	0.074
	Right	0.000	0.965	0.965
	Top	0.140	0.081	0.221
	Bottom	0.000	0.000	0.000

5G NR DC_7A_n77(n78)

Position		Standalone SAR(W/kg)		Σ SAR _{1g} (W/kg)
		LTE Band 7	NR n77 SA	5G NR DC_7A_n77(n78)
Head	Right Cheek	0.943	0.344	1.287
	Right Tilted	1.159	0.259	1.418
	Left Cheek	0.246	1.023	1.269
	Left Tilted	0.392	0.757	1.149
Body- worn	Front	0.421	0.478	0.899
	Back	0.450	0.571	1.021
Hotspot	Front	0.421	0.478	0.899
	Back	0.450	0.571	1.021
	Left	0.056	0.000	0.056
	Right	0.000	0.965	0.965
	Top	0.488	0.081	0.569
	Bottom	0.000	0.000	0.000

5G NR DC_41A(38A)_n77(n78)

Position		Standalone SAR(W/kg)		Σ SAR _{1g} (W/kg)
		LTE Band 41	NR n77 SA	5G NR DC_41A(38A)_n77(n78)
Head	Right Cheek	0.712	0.344	1.056
	Right Tilted	0.792	0.259	1.051
	Left Cheek	0.334	1.023	1.357
	Left Tilted	0.387	0.757	1.144
Body- worn	Front	0.133	0.478	0.611
	Back	0.350	0.571	0.921
Hotspot	Front	0.133	0.478	0.611
	Back	0.350	0.571	0.921
	Left	0.100	0.000	0.100
	Right	0.000	0.965	0.965
	Top	0.383	0.081	0.464
	Bottom	0.000	0.000	0.000

5G NR DC_66A_n77(n78)

Position		Standalone SAR(W/kg)		Σ SAR _{1g} (W/kg)
		LTE Band 66	NR n77 SA	5G NR DC_66A_n77(n78)
Head	Right Cheek	0.761	0.344	1.105
	Right Tilted	0.795	0.259	1.054
	Left Cheek	0.387	1.023	1.410
	Left Tilted	0.448	0.757	1.205
Body- worn	Front	0.160	0.478	0.638
	Back	0.213	0.571	0.784
Hotspot	Front	0.160	0.478	0.638
	Back	0.213	0.571	0.784
	Left	0.075	0.000	0.075
	Right	0.000	0.965	0.965
	Top	0.309	0.081	0.390
	Bottom	0.000	0.000	0.000

WLAN

Position		Standalone SAR(W/kg)				Σ SAR _{1g} (W/kg)	
		1	2	3	4	1+2	3+4
		2.4GWIFI Ant1	2.4GWIFI Ant3	5GWIFI ANT1	5GWIFI ANT3	2.4GWLAN MIMO	5GWLAN MIMO
Head	Right Cheek	0.042	0.079	0.039	0.095	0.121	0.134
	Right Tilted	0.023	0.011	0.076	0.017	0.034	0.093
	Left Cheek	0.059	0.118	0.054	0.130	0.177	0.184
	Left Tilted	0.050	0.018	0.089	0.022	0.068	0.111
Body- worn	Front	0.008	0.033	0.024	0.149	0.041	0.173
	Back	0.011	0.050	0.035	0.182	0.061	0.217
Hotspot	Front	0.008	0.033	0.024	0.149	0.041	0.173
	Back	0.011	0.050	0.035	0.182	0.061	0.217
	Left	0.000	0.000	0.000	0.000	0.000	0.000
	Right	0.009	0.088	0.015	0.167	0.097	0.182
	Top	0.033	0.000	0.031	0.000	0.033	0.031
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000

Position		Standalone SAR(W/kg)					Σ SAR _{1g} (W/kg)		
		1	2	3	4	5	1+2+5	1+3+5	1+4+5
		WWAN	2.4G WLAN MIMO	5G WLAN MIMO	BT	NFC			
Head	Right Cheek	1.287	0.121	0.134	0.022	0.000	1.408	1.421	1.309
	Right Tilted	1.418	0.034	0.093	0.009	0.000	1.452	1.511	1.427
	Left Cheek	1.357	0.177	0.184	0.039	0.000	1.534	1.541	1.396
	Left Tilted	1.149	0.068	0.111	0.013	0.000	1.217	1.260	1.162
Body-worn	Front	0.899	0.041	0.173	0.001	0.000	0.940	1.072	0.900
	Back	1.021	0.061	0.217	0.010	0.000	1.082	1.238	1.031
Hotspot	Front	0.730	0.041	0.173	0.001	0.000	0.771	0.903	0.731
	Back	0.850	0.061	0.217	0.010	0.000	0.911	1.067	0.860
	Left	0.381	0.000	0.000	0.000	0.000	0.381	0.381	0.381
	Right	0.965	0.097	0.182	0.002	0.000	1.062	1.147	0.967
	Top	0.728	0.033	0.031	0.009	0.000	0.761	0.759	0.737
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

➤ Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01.

15.8 Measurement Uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

15.9 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested. Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

16 Reference

- [1]. FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
- [2]. ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
- [3]. IEEE Std. 1528-2013, “Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, September 2013
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- [5]. FCC KDB 248227 D01 v02r02, “SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS”, October 2015
- [6]. FCC KDB 447498 D04 v01, “RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES”, November 2021
- [7]. FCC KDB 648474 D04 v01r03, “SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS”, October 2015
- [8]. FCC KDB 941225 D01 v03r01, “3G SAR MEASUREMENT PROCEDURES”, October 2015
- [9]. FCC KDB 941225 D05 v02r05, “SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES”, Dec 2015
- [10]. FCC KDB 941225 D06 v02r01, “SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES”, October 2015
- [11]. FCC KDB 865664 D01 v01r04, “SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz”, August 2015

Appendix A: Plots of SAR System Check

Test Laboratory: JYTSZ

Date: 08.17.2022

DUT: Dipole 750 MHz; Type: D750V3; Serial: SN:1118

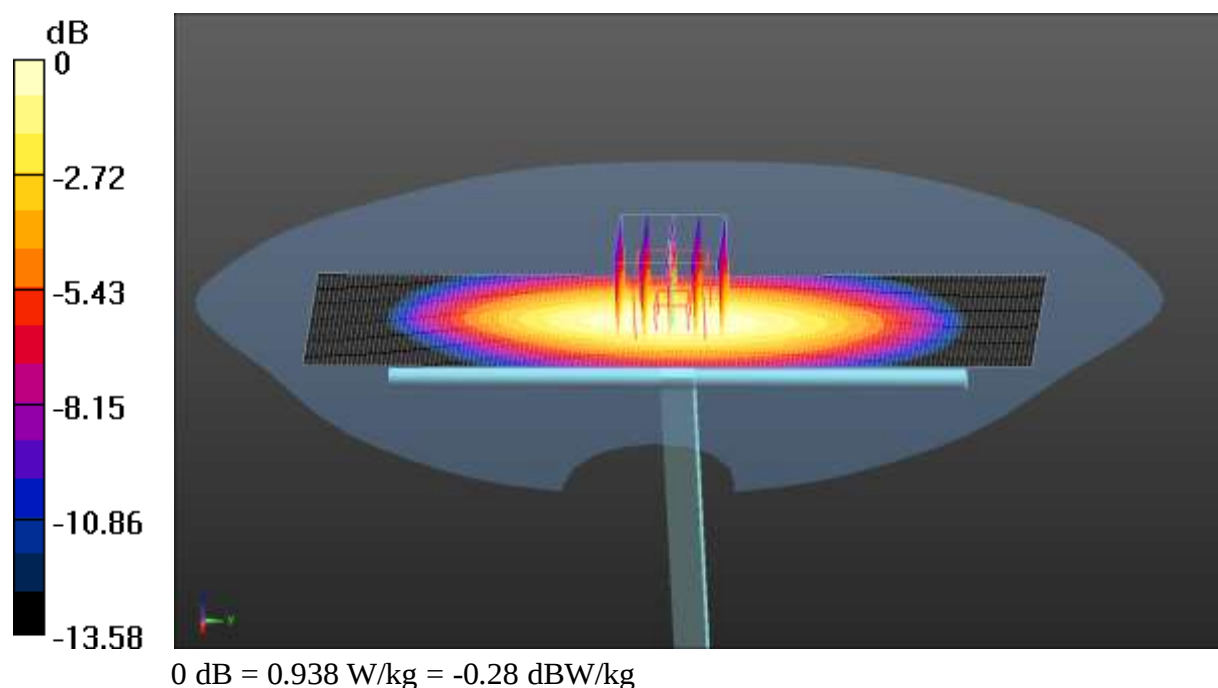
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.893 \text{ S/m}$; $\epsilon_r = 40.199$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7601; ConvF(10.58, 10.58, 10.58) @ 750 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x151x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.932 W/kg

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 31.82 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.688 W/kg; SAR(10 g) = 0.447 W/kg
Smallest distance from peaks to all points 3 dB below = 15.1 mm
Ratio of SAR at M2 to SAR at M1 = 65.4%
Maximum value of SAR (measured) = 0.938 W/kg



Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Dipole 835 MHz; Type: D835V2; Serial: SN:4D154

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 39.972$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7601; ConvF(10.20, 10.20, 10.20) @ 835 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.18 V/m; Power Drift = 0.06 dB

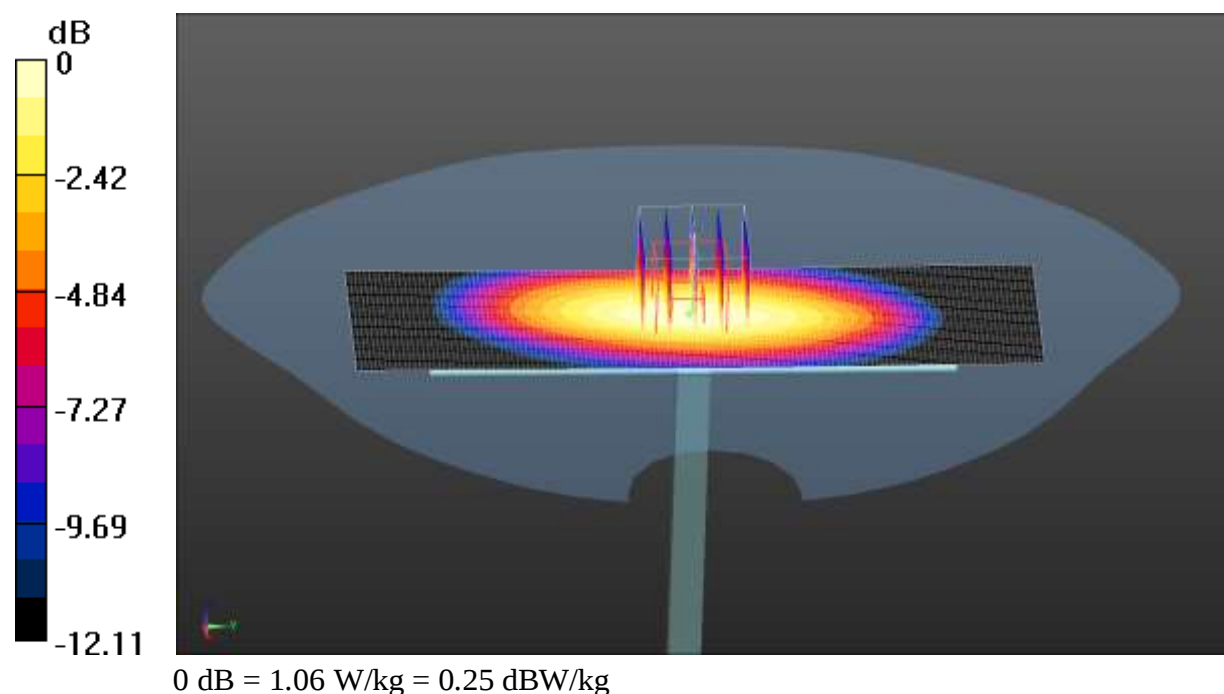
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.526 W/kg

Smallest distance from peaks to all points 3 dB below = 15.3 mm

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 1.06 W/kg



Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: SN:1177

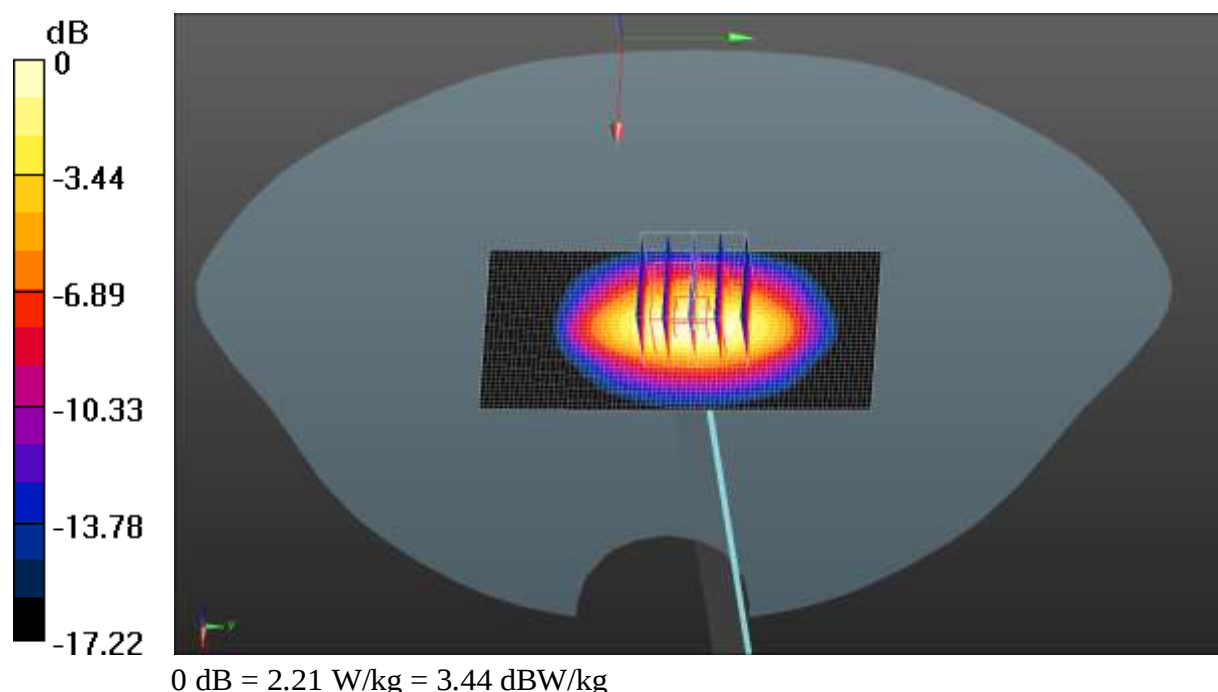
Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.326$ S/m; $\epsilon_r = 38.24$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7601; ConvF(8.62, 8.62, 8.62) @ 1750 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.38 W/kg

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 39.83 V/m; Power Drift = 0.02dB
Peak SAR (extrapolated) = 2.66 W/kg
SAR(1 g) = 1.45 W/kg; SAR(10 g) = 0.756 W/kg
Smallest distance from peaks to all points 3 dB below = 10.6 mm
Ratio of SAR at M2 to SAR at M1 = 58.3%
Maximum value of SAR (measured) = 2.21 W/kg



Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d175

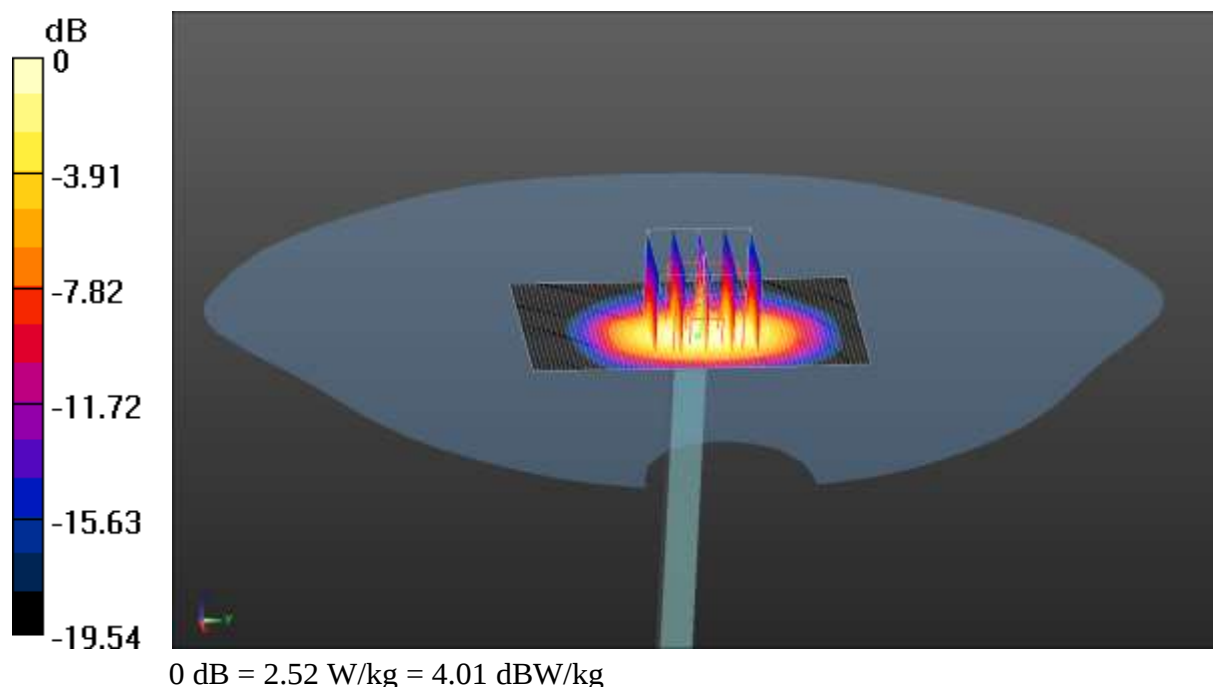
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.373 \text{ S/m}$; $\epsilon_r = 38.262$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7601; ConvF(8.37, 8.37, 8.37) @ 1900 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 2.62 W/kg

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 37.24 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.11 W/kg
SAR(1 g) = 1.61 W/kg; SAR(10 g) = 0.846 W/kg
Smallest distance from peaks to all points 3 dB below = 11.1 mm
Ratio of SAR at M2 to SAR at M1 = 56.4%
Maximum value of SAR (measured) = 2.52 W/kg



Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: SN:910

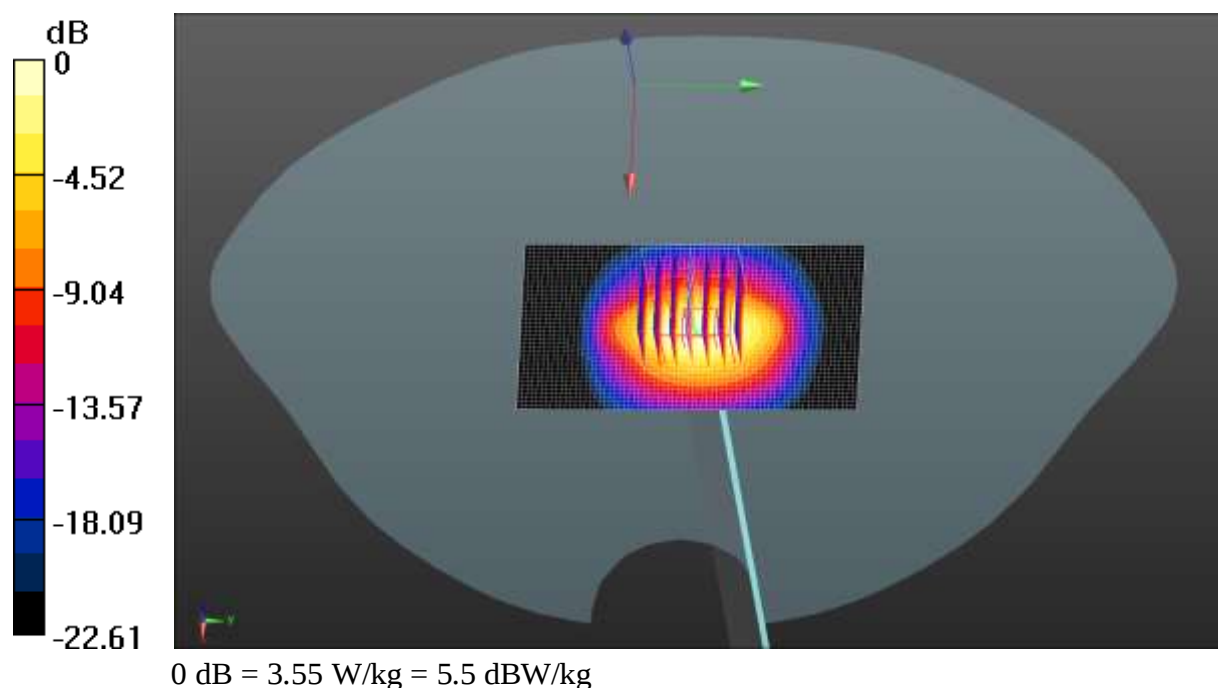
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.719$ S/m; $\epsilon_r = 37.563$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7601; ConvF(7.74, 7.74, 7.74) @ 2450 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.88 W/kg

System Performance Check at Frequency 2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 42.87 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 4.59 W/kg
SAR(1 g) = 2.12 W/kg; SAR(10 g) = 0.986 W/kg
Smallest distance from peaks to all points 3 dB below = 10.2 mm
Ratio of SAR at M2 to SAR at M1 = 58.2%
Maximum value of SAR (measured) = 3.55 W/kg



Test Laboratory: JYTSZ

Date: 08.09.2022

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: SN:1114

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.866$ S/m; $\epsilon_r = 37.273$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7601; ConvF(7.49, 7.49, 7.49) @ 2600 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.27 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 5.12 W/kg

SAR(1 g) = 2.23 W/kg; SAR(10 g) = 0.975 W/kg

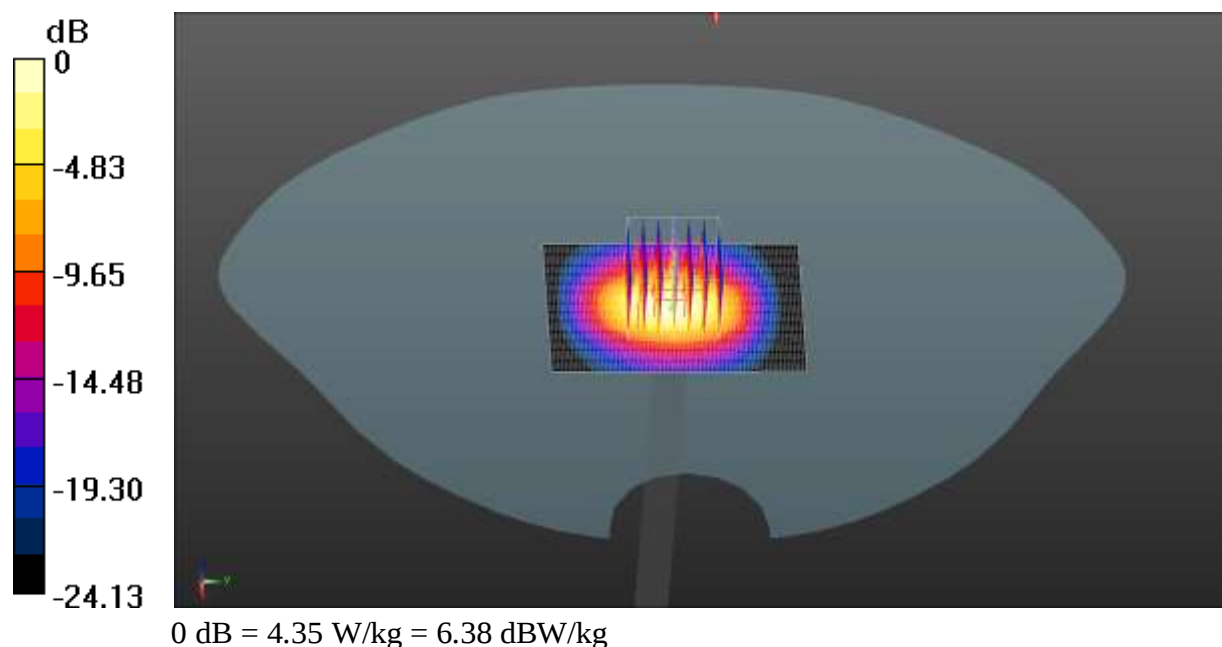
Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 4.28 W/kg

System Performance Check at Frequency 2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.35 W/kg



Test Laboratory: JYTSZ

Date: 07.22.2022

DUT: Dipole 3500 MHz; Type: D3500V2; SN:1118

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.90$ S/m; $\epsilon_r = 36.667$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3826; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 07.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequencies above 3500MHz/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 47.68 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 6.7 W/kg

SAR(1 g) = 2.71 W/kg; SAR(10 g) = 1.02 W/kg

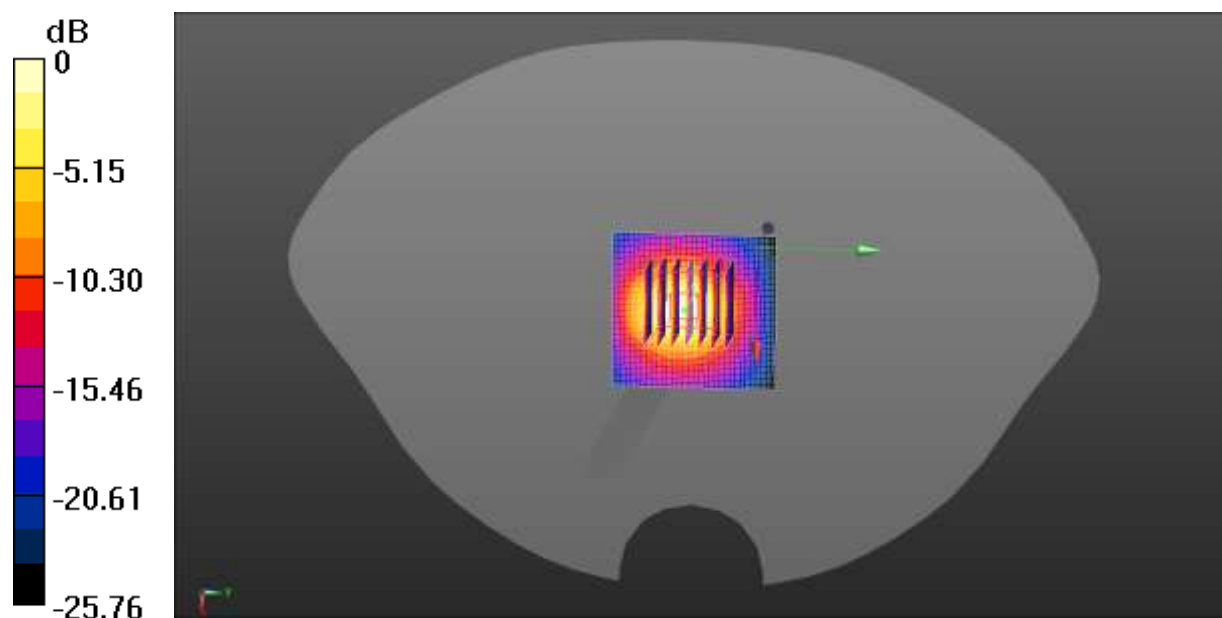
Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 42.6%

Maximum value of SAR (measured) = 4.8 W/kg

System Performance Check at Frequencies above 3500MHz/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.9 W/kg



0 dB = 4.9 W/kg = 6.9 dBW/kg

Test Laboratory: JYTSZ

Date: 07.26.2022

DUT: Dipole 3700 MHz; Type: D3700V2; SN:1089

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.085$ S/m; $\epsilon_r = 36.369$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3826; ConvF(6.31, 6.31, 6.31) @ 3700 MHz; Calibrated: 07.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequencies above 3700MHz/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 47.78 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 6.86 W/kg

SAR(1 g) = 2.68 W/kg; SAR(10 g) = 0.986 W/kg

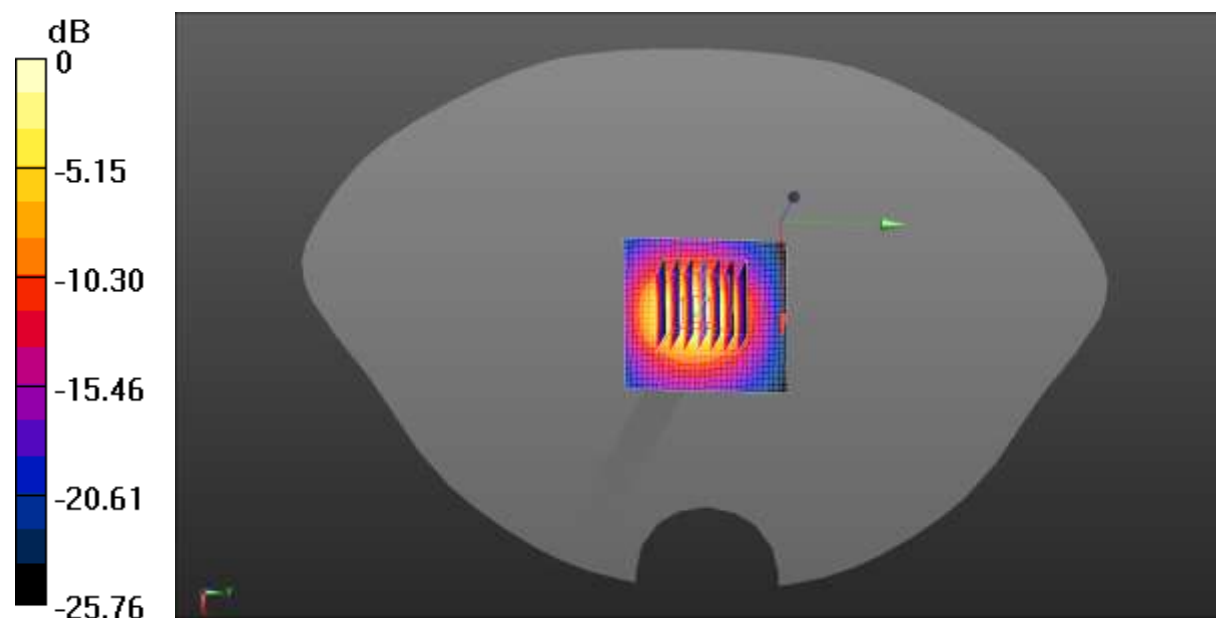
Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 46.6%

Maximum value of SAR (measured) = 4.85 W/kg

System Performance Check at Frequencies above 3700MHz/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 5.02 W/kg



0 dB = 5.02 W/kg = 7.0 dBW/kg

Test Laboratory: JYTSZ

Date: 08.12.2022

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1182

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.778$ S/m; $\epsilon_r = 35.848$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7601; ConvF(5.35, 5.35, 5.35) @ 5200 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 5200 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 46.63 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 3.11 W/kg; SAR(10 g) = 0.884 W/kg

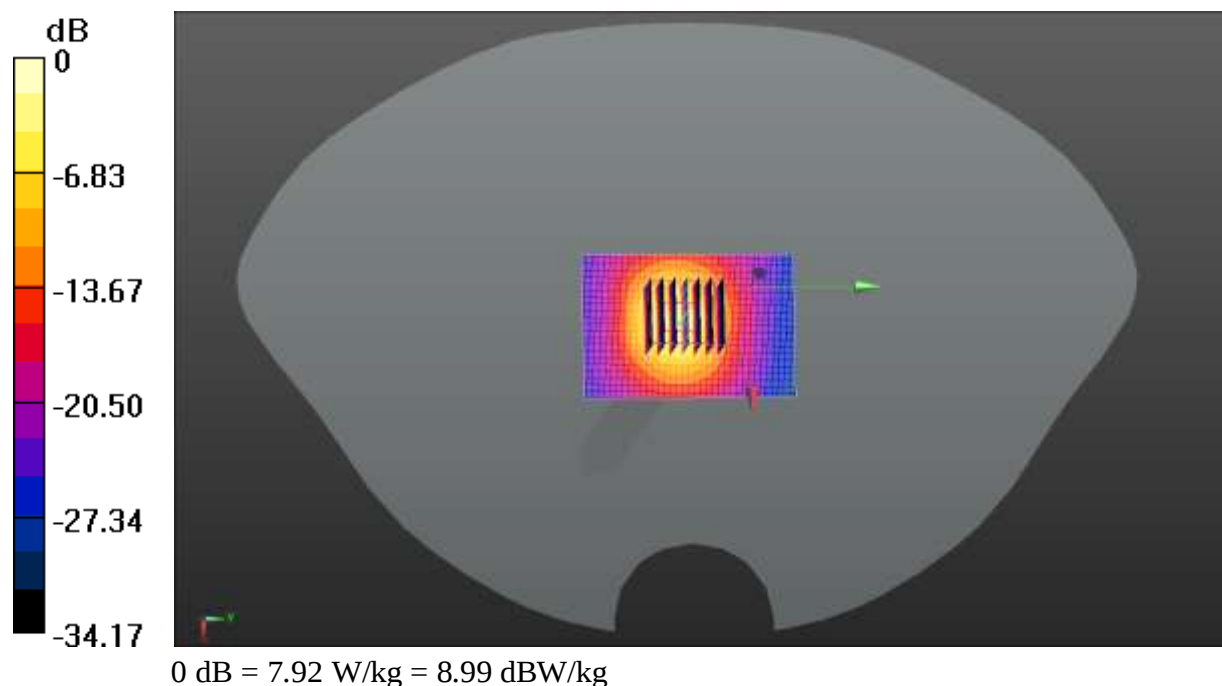
Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 28.3%

Maximum value of SAR (measured) = 7.91 W/kg

System Performance Check at Frequency 5200 MHz Head Tissue/d=10mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 7.92 W/kg



Test Laboratory: JYTSZ

Date: 08.15.2022

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1182

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800$ MHz; $\sigma = 5.468$ S/m; $\epsilon_r = 34.852$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7601; ConvF(5.04, 5.04, 5.04) @ 5800 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 5800 MHz Head Tissue/d=10mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 41.53 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 15.1 W/kg

SAR(1 g) = 3.16 W/kg; SAR(10 g) = 0.886 W/kg

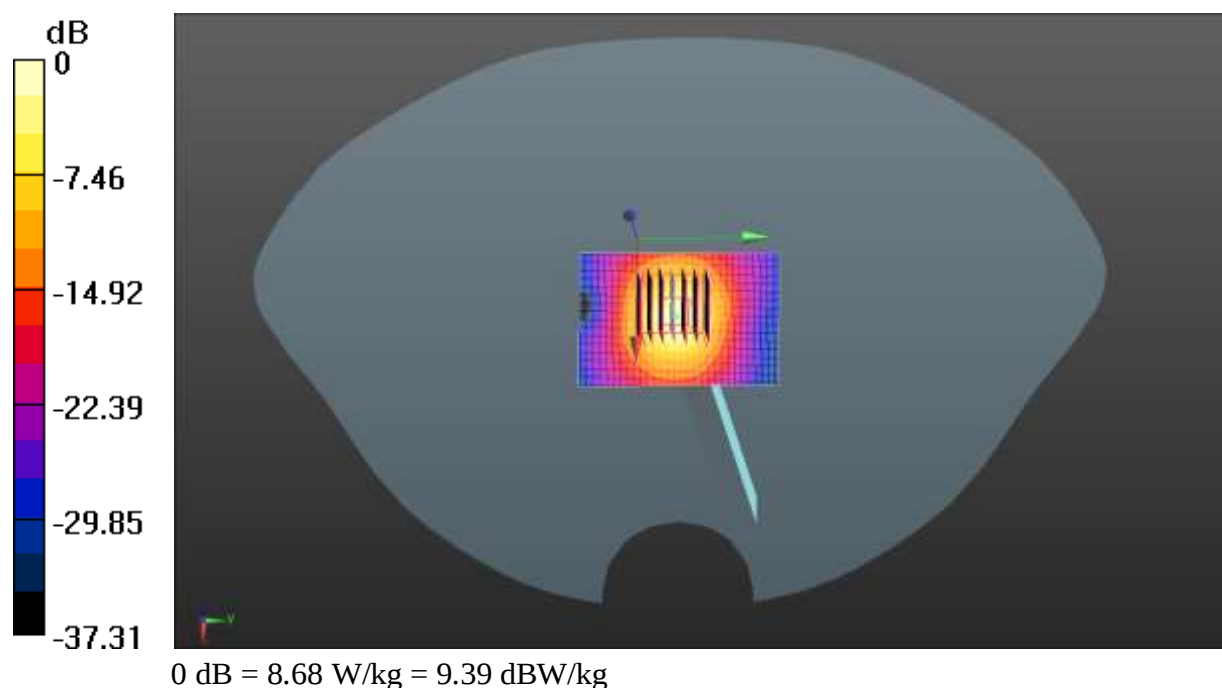
Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 18.3%

Maximum value of SAR (measured) = 8.53 W/kg

System Performance Check at Frequency 5800 MHz Head Tissue/d=10mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.68 W/kg



Appendix B: Plots of SAR Test Data

Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 39.965$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.2, 10.2, 10.2) @ 836.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 850 Right Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

GSM 850 Right Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.51 V/m; Power Drift = -0.16 dB

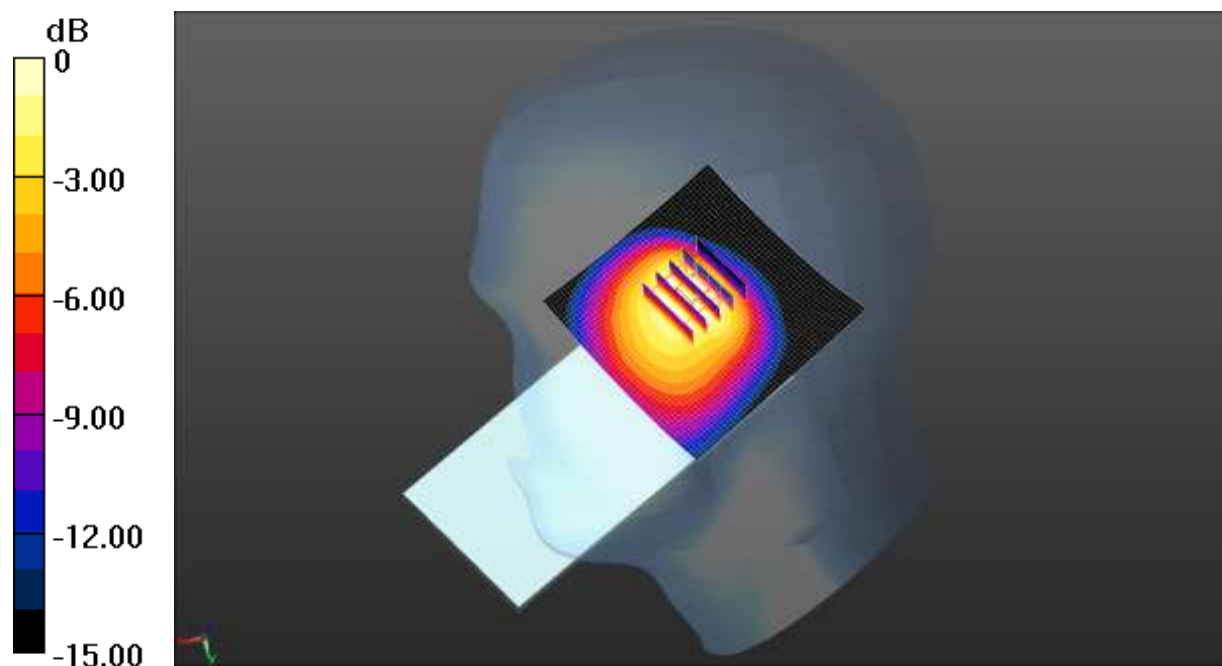
Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.361 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 40.3%

Maximum value of SAR (measured) = 0.903 W/kg



0 dB = 0.903 W/kg = -0.44 dBW/kg

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 38.294$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1850.2 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 1900 Right Tilted/Low Channel/Area Scan (41x41x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.828 W/kg

GSM 1900 Right Tilted/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.73 V/m; Power Drift = 0.14 dB

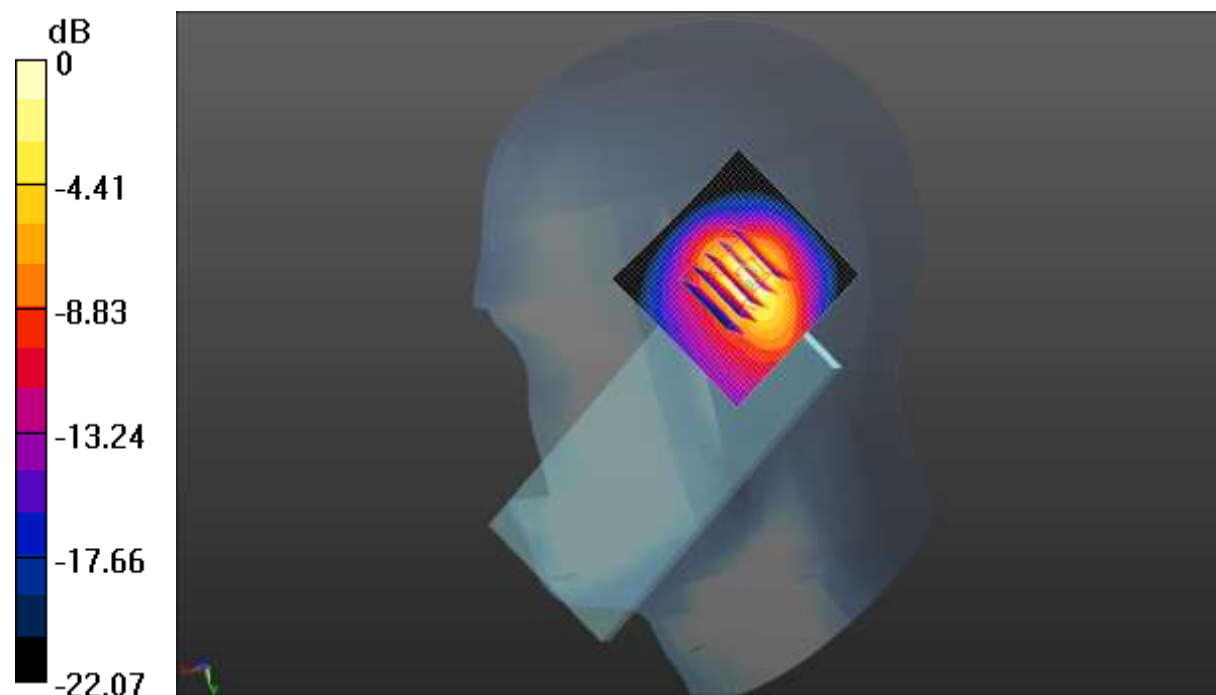
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.325 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.377 \text{ S/m}$; $\epsilon_r = 38.25$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1907.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1900 Right Tilted/High Channel/Area Scan (41x41x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.971 W/kg

WCDMA 1900 Right Tilted/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.07 V/m ; Power Drift = 0.09 dB

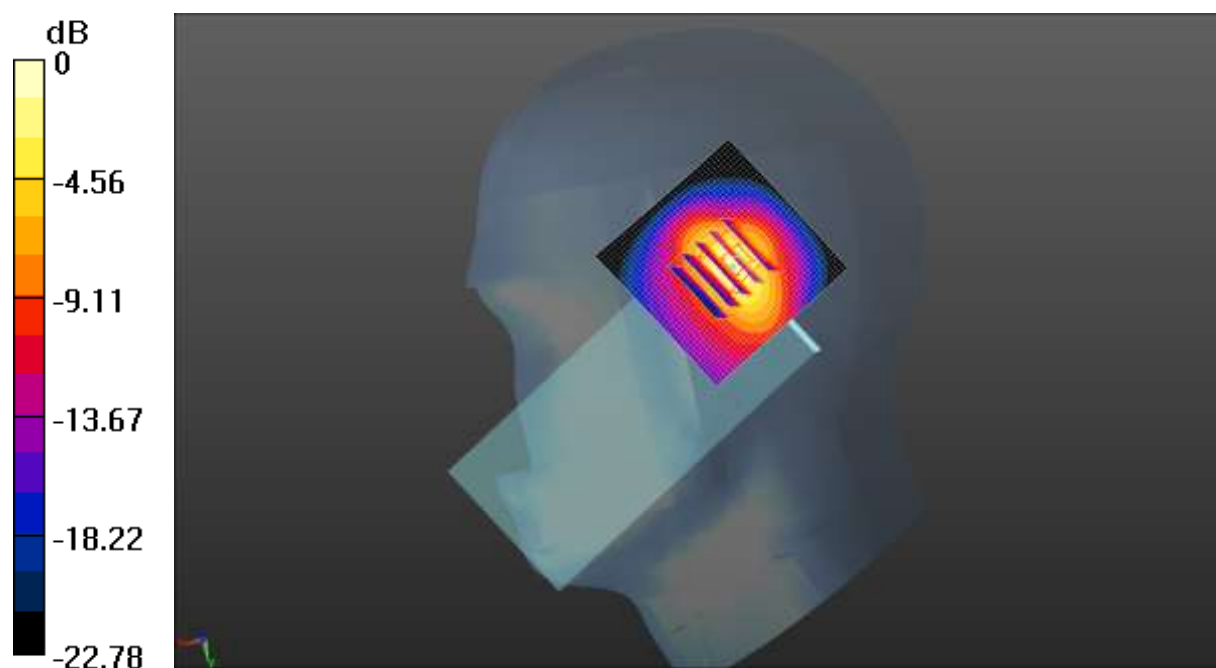
Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.887 W/kg ; SAR(10 g) = 0.384 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.327$ S/m; $\epsilon_r = 38.237$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1752.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1700 Right Tilted/High Channel/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.70 W/kg

WCDMA 1700 Right Tilted/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.37 V/m; Power Drift = 0.06 dB

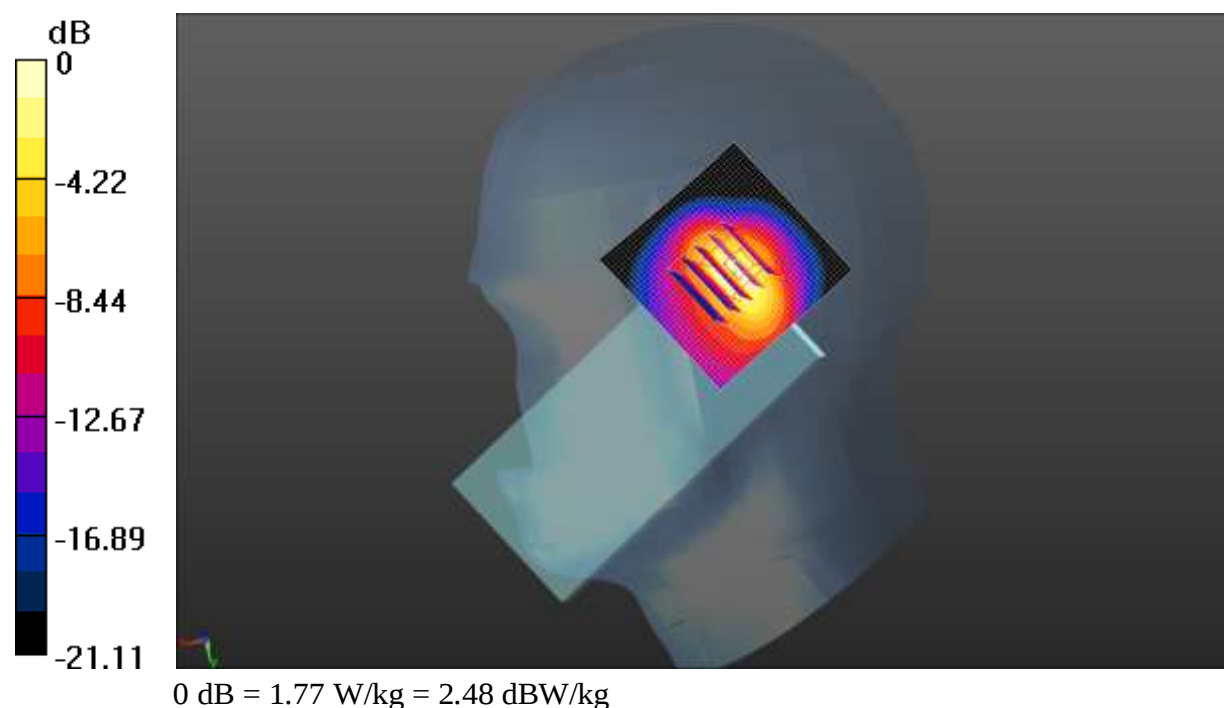
Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.524 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 1.77 W/kg



Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 39.965$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.2, 10.2, 10.2) @ 836.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 850 Right Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.751 W/kg

WCDMA 850 Right Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.77 V/m; Power Drift = 0.05 dB

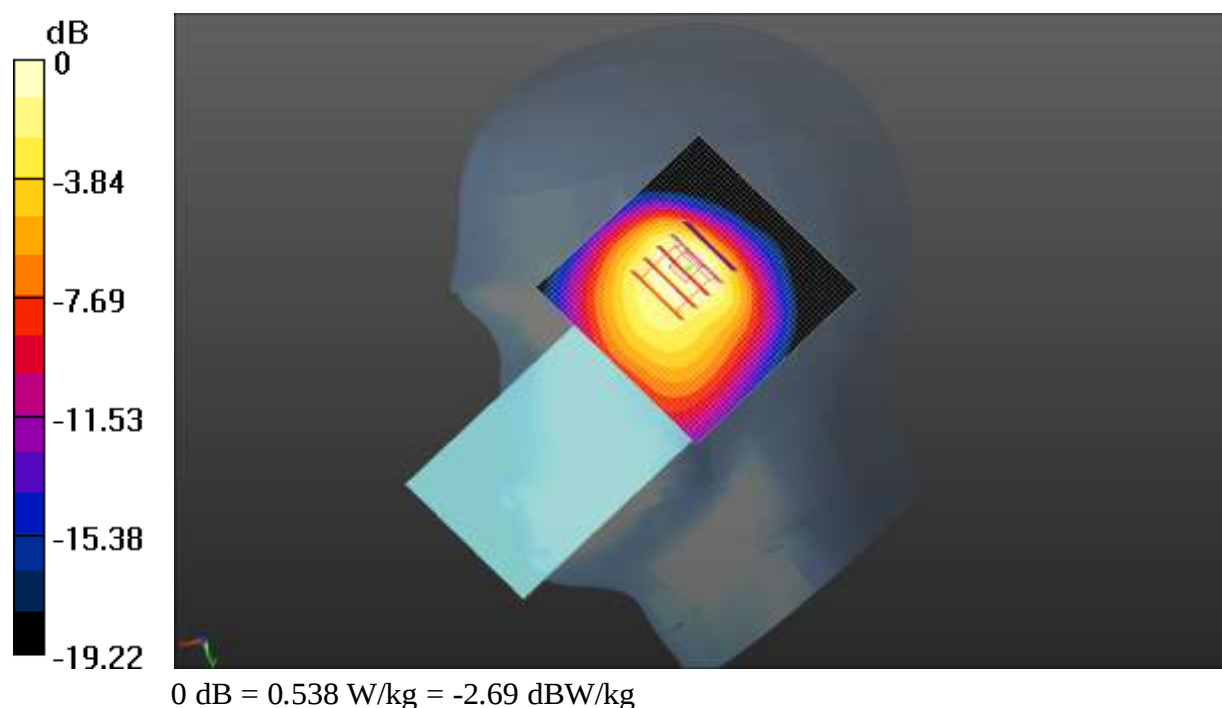
Peak SAR (extrapolated) = 0.823 W/kg

SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.221 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 37.8%

Maximum value of SAR (measured) = 0.538 W/kg



Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.354$ S/m; $\epsilon_r = 38.205$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1860 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 1RB(20MHz) Right Tilted/Low Channel/Area Scan (51x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.516 W/kg

LTE Band 2 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.33 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.652 W/kg; SAR(10 g) = 0.294 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 39.965$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.2, 10.2, 10.2) @ 836.5 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 5 1RB(10MHz) Right Cheek/Middle Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.07 W/kg

LTE Band 5 1RB(10MHz) Right Cheek/Middle Channel/Zoom Scan

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

Reference Value = 20.31 V/m; Power Drift = 0.07 dB

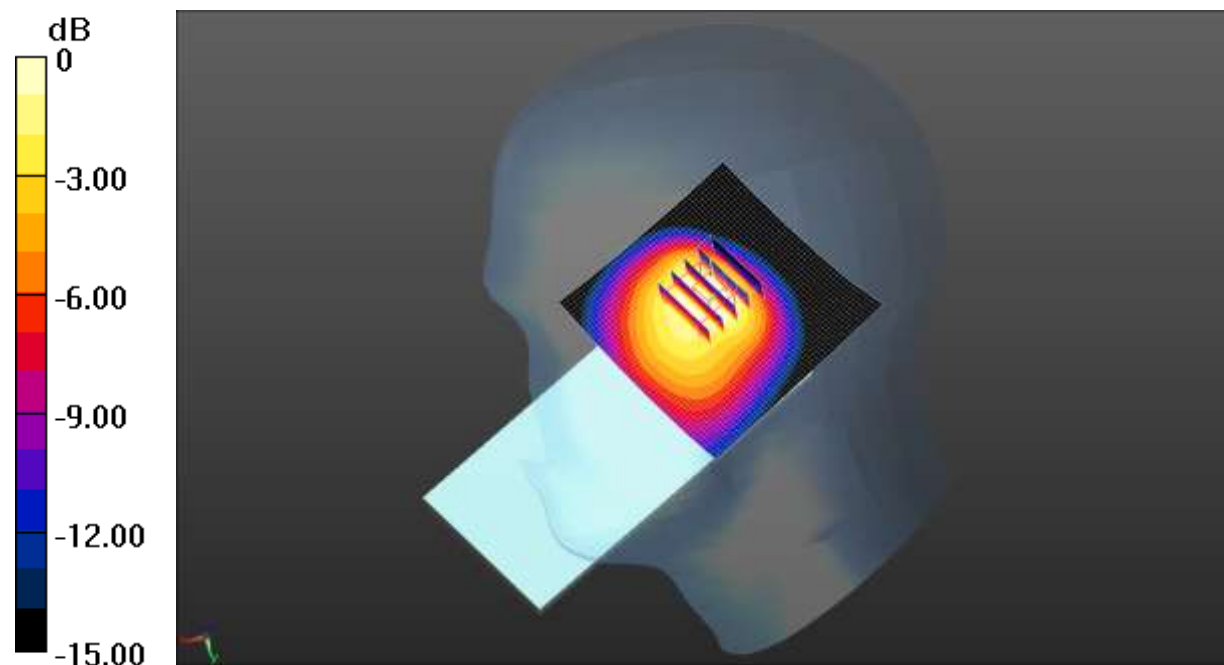
Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.314 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 39.7%

Maximum value of SAR (measured) = 0.795 W/kg



0 dB = 0.795 W/kg = -1.00 dBW/kg

Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 37.179$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2510 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 7 1RB(20MHz) Right Tilted/Low Channel/Area Scan (41x41x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.47 W/kg

LTE Band 7 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan

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

Reference Value = 5.700 V/m; Power Drift = 0.04 dB

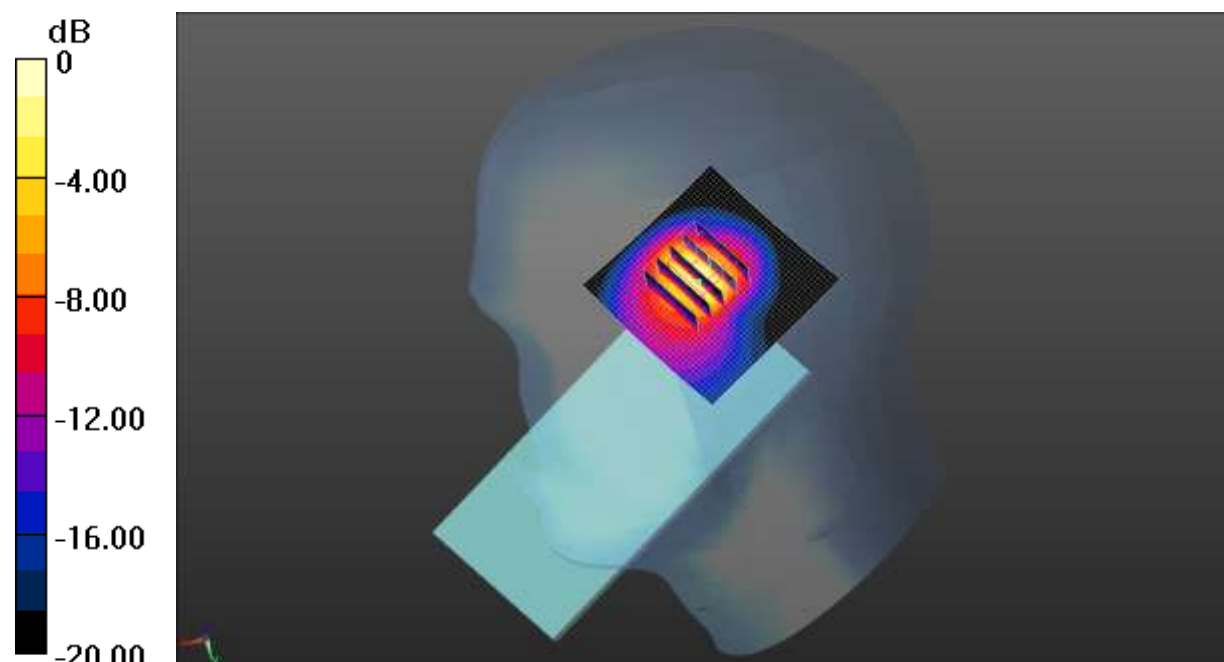
Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.438 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 42%

Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

Test Laboratory: JYTSZ

Date: 08.09.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 1.826$ S/m; $\epsilon_r = 37.371$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2593 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 41 1RB(20MHz) Right Tilted/Middle Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.924 W/kg

LTE Band 41 1RB(20MHz) Right Tilted/Middle Channel/Zoom Scan

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

Reference Value = 5.506 V/m; Power Drift = 0.15 dB

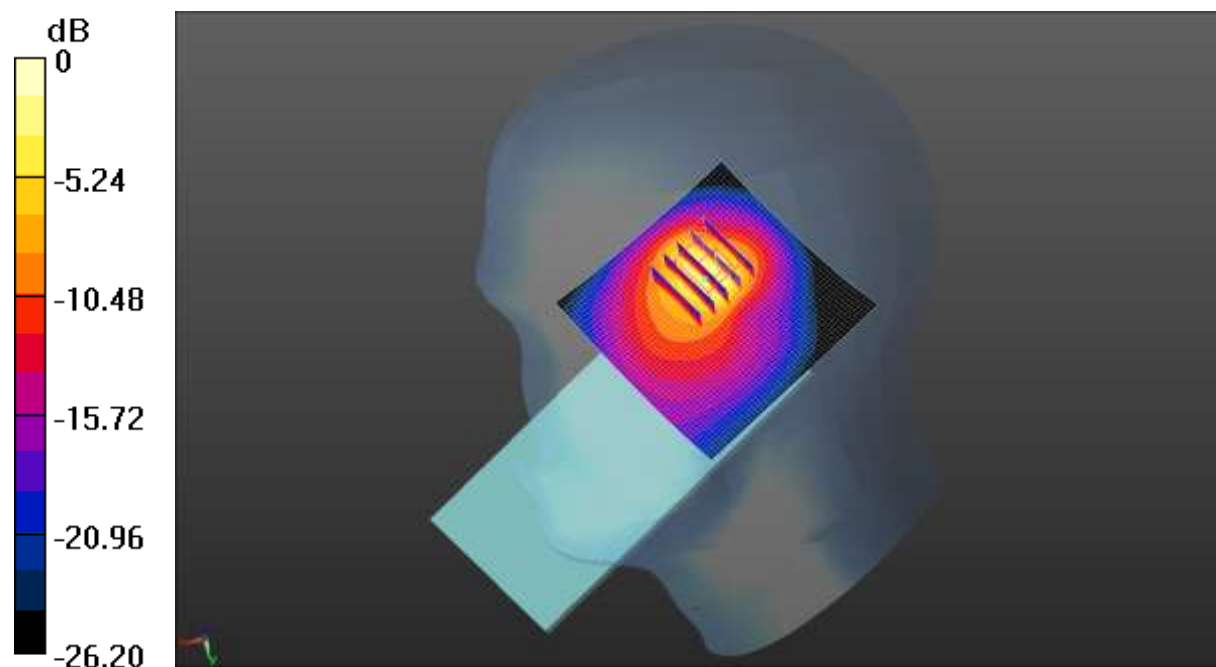
Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.690 W/kg; SAR(10 g) = 0.293 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 39.8%

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

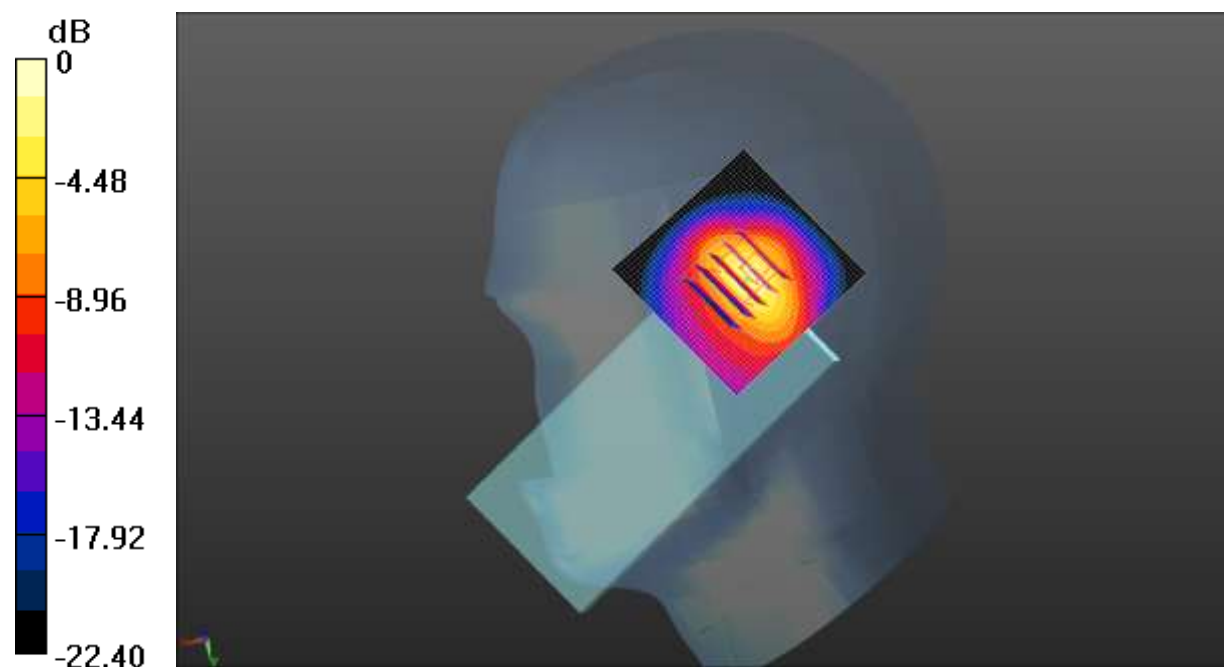
Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.325 \text{ S/m}$; $\epsilon_r = 38.247$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1745 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 66 1RB(20MHz) Right Tilted/Middle Channel/Area Scan (41x41x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.841 W/kg **LTE Band 66 1RB(20MHz) Right Tilted/Middle Channel/Zoom Scan****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 19.68 V/m ; Power Drift = 0.09 dB Peak SAR (extrapolated) = 1.48 W/kg **SAR(1 g) = 0.723 W/kg ; SAR(10 g) = 0.325 W/kg** Smallest distance from peaks to all points 3 dB below = 8 mm Ratio of SAR at M2 to SAR at M1 = 51.6% Maximum value of SAR (measured) = 1.24 W/kg 0 dB = 1.24 W/kg = 0.93 dBW/kg

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 38.262$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1900 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n2 1RB(20MHz) Right Tilted/High Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.507 W/kg

NR n2 1RB(20MHz) Right Tilted/High Channel/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.91 V/m; Power Drift = 0.18 dB

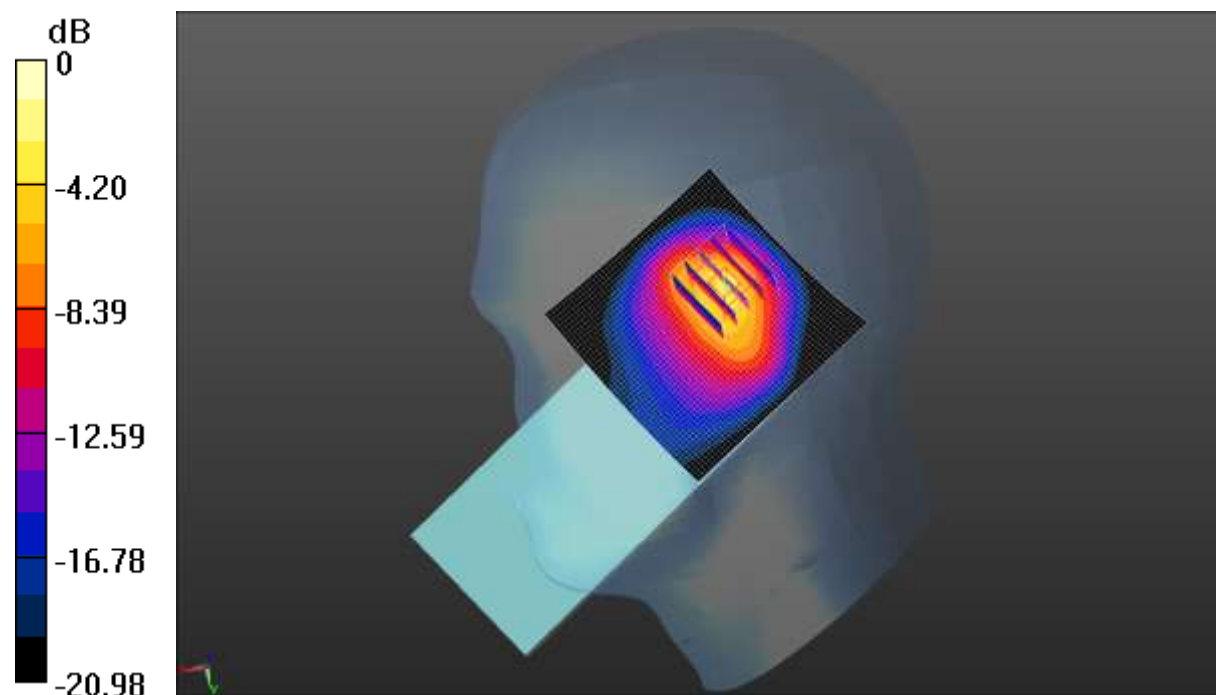
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.296 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 1.16 W/kg



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

Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

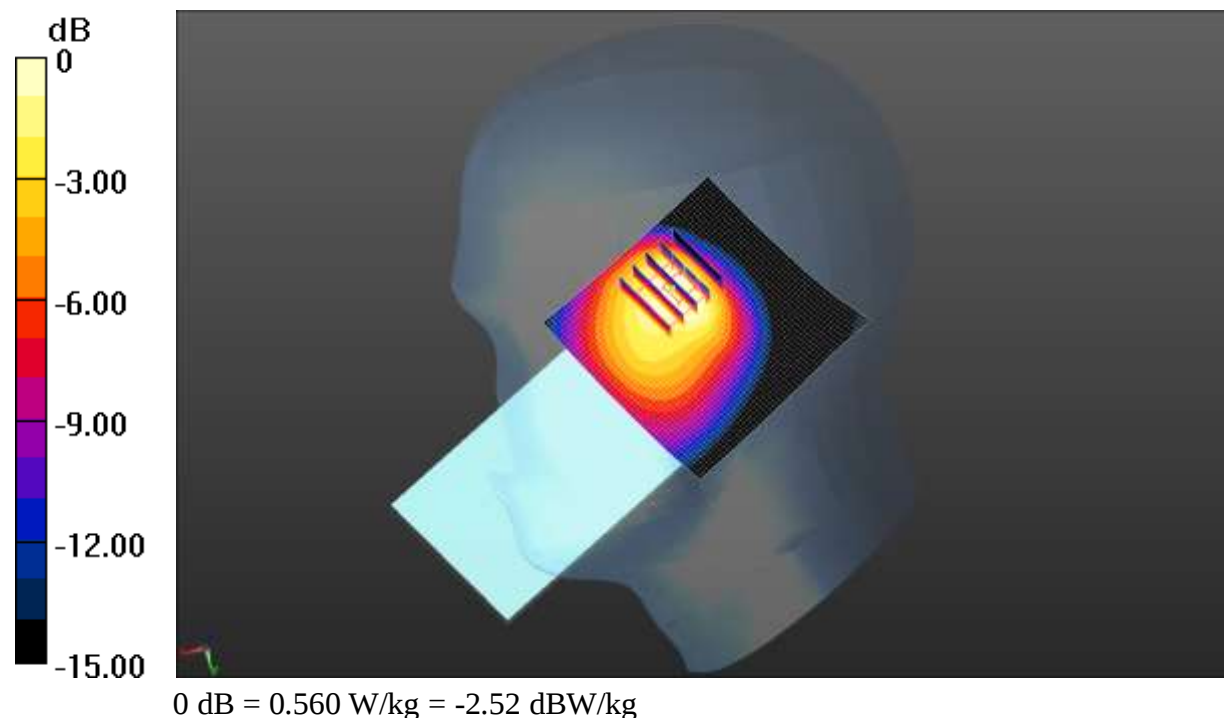
Communication System: UID 0, NR (0); Frequency: 834 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 834 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 40.031$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.2, 10.2, 10.2) @ 834 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n5 1RB(20MHz) Right Cheek/Low Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.800 W/kg **NR n5 1RB(20MHz) Right Cheek/Low Channel/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 16.37 V/m ; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.786 W/kg **SAR(1 g) = 0.346 W/kg ; SAR(10 g) = 0.212 W/kg** Smallest distance from peaks to all points 3 dB below = 9.6 mm Ratio of SAR at M2 to SAR at M1 = 41.7% Maximum value of SAR (measured) = 0.560 W/kg 

Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 37.382$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2510 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n7 1RB(20MHz) Right Tilted/Low Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.953 W/kg

NR n7 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.507 V/m; Power Drift = -0.02 dB

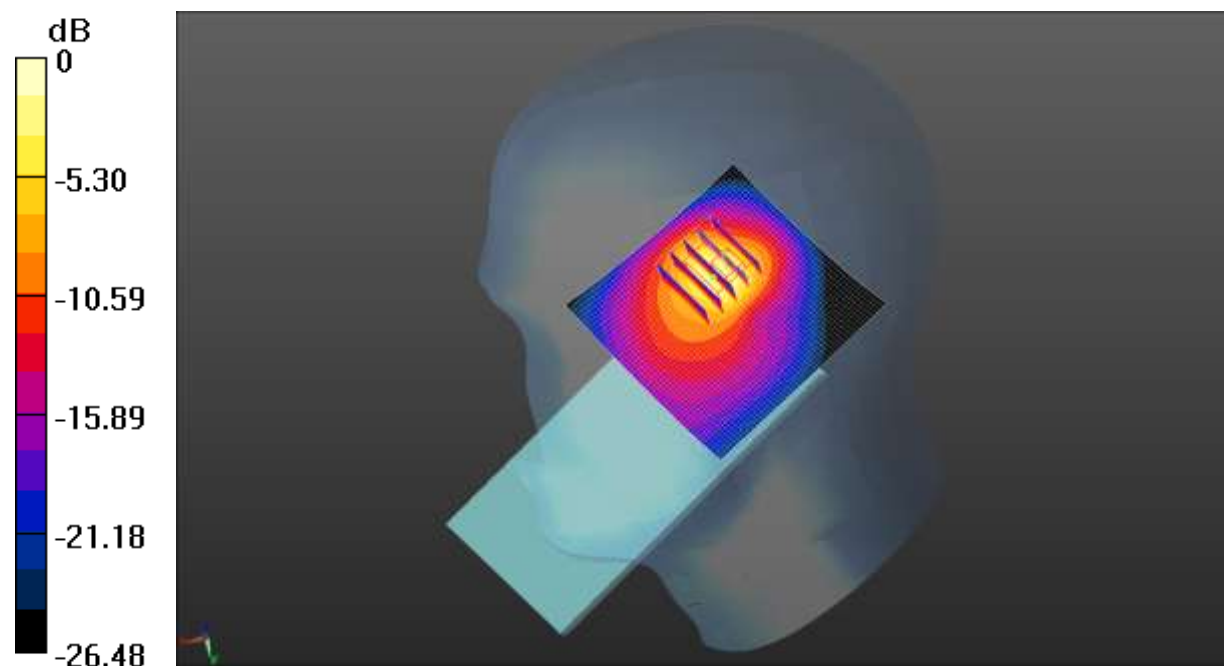
Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.734 W/kg; SAR(10 g) = 0.311 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 40%

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

Test Laboratory: JYTSZ

Date: 08.09.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 2546.01 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2546.01$ MHz; $\sigma = 1.855$ S/m; $\epsilon_r = 37.296$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

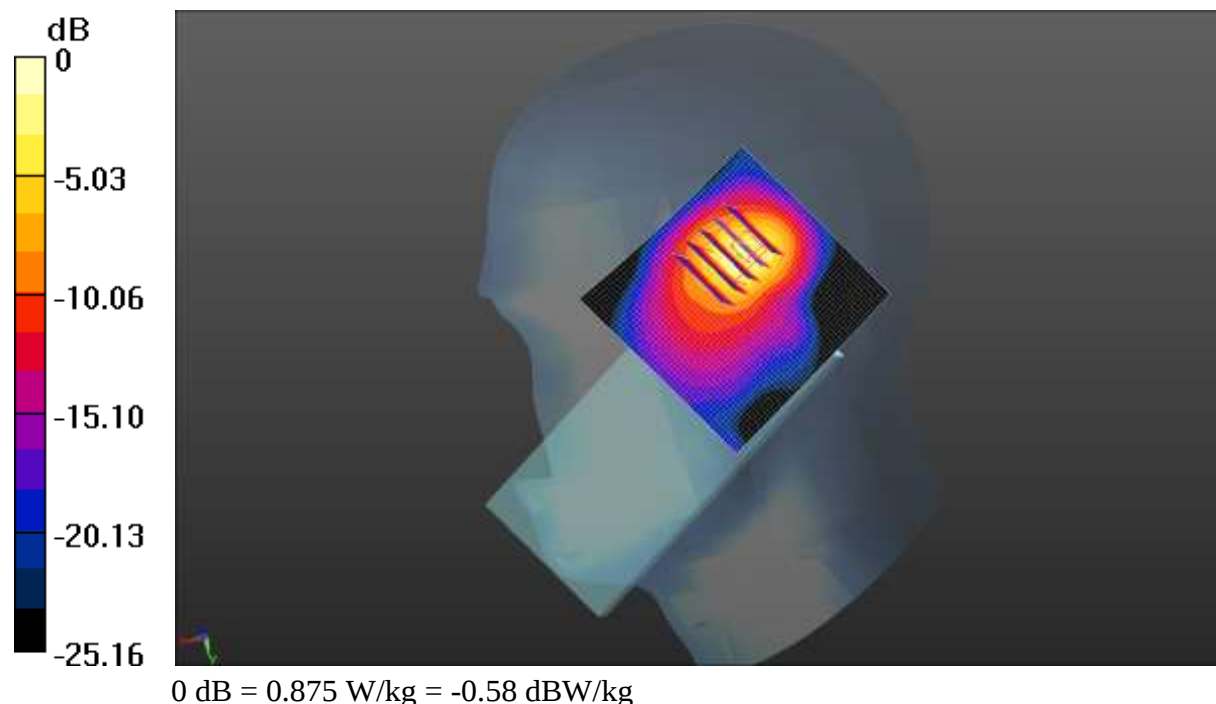
- Probe: EX3DV4 - SN7601; ConvF(7.49, 7.49, 7.49) @ 2546.01 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n41 1RB(100MHz) Right Tilted/Low Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.533 W/kg

NR n41 1RB(100MHz) Right Tilted/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 5.292 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.201 W/kg
Smallest distance from peaks to all points 3 dB below = 8.2 mm
Ratio of SAR at M2 to SAR at M1 = 41%
Maximum value of SAR (measured) = 0.875 W/kg



Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 1730 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1730$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 38.247$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1730 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n66 1RB(20MHz) Right Tilted/Low Channel/Area Scan (51x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.641 W/kg

NR n66 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.09 V/m; Power Drift = -0.01 dB

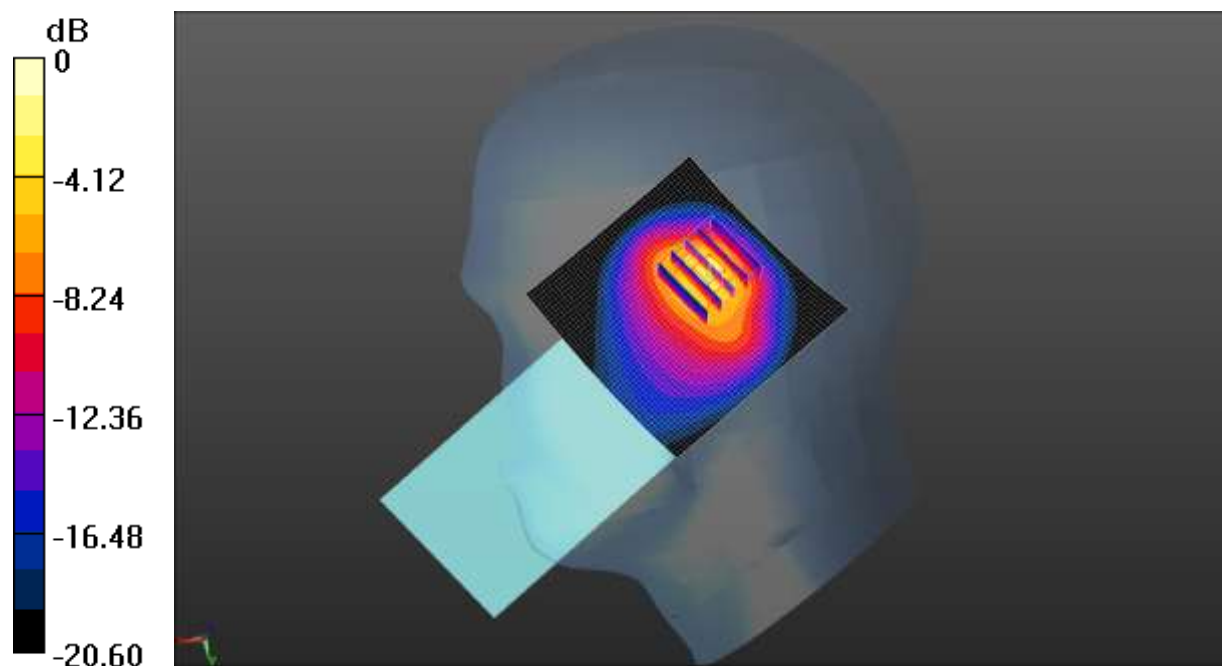
Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.335 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.1%

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

Test Laboratory: JYTSZ

Date: 08.17.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

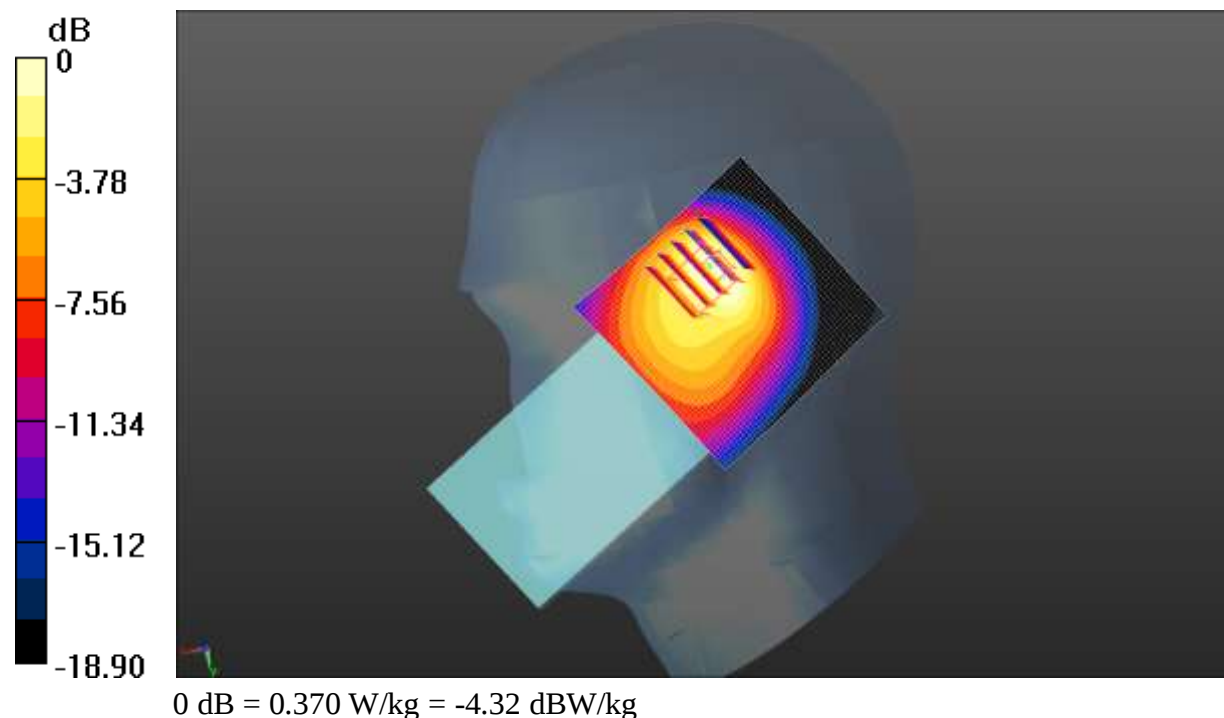
Communication System: UID 0, NR (0); Frequency: 688 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 688 \text{ MHz}$; $\sigma = 0.874 \text{ S/m}$; $\epsilon_r = 40.35$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.58, 10.58, 10.58) @ 688 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n71 1RB(20MHz) Right Cheek/High Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.462 W/kg **NR n71 1RB(20MHz) Right Cheek/High Channel/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 15.69 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.529 W/kg **SAR(1 g) = 0.217 W/kg ; SAR(10 g) = 0.130 W/kg** Smallest distance from peaks to all points 3 dB below = 8.6 mm Ratio of SAR at M2 to SAR at M1 = 39.3% Maximum value of SAR (measured) = 0.370 W/kg 

Test Laboratory: JYTSZ

Date: 07.22.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

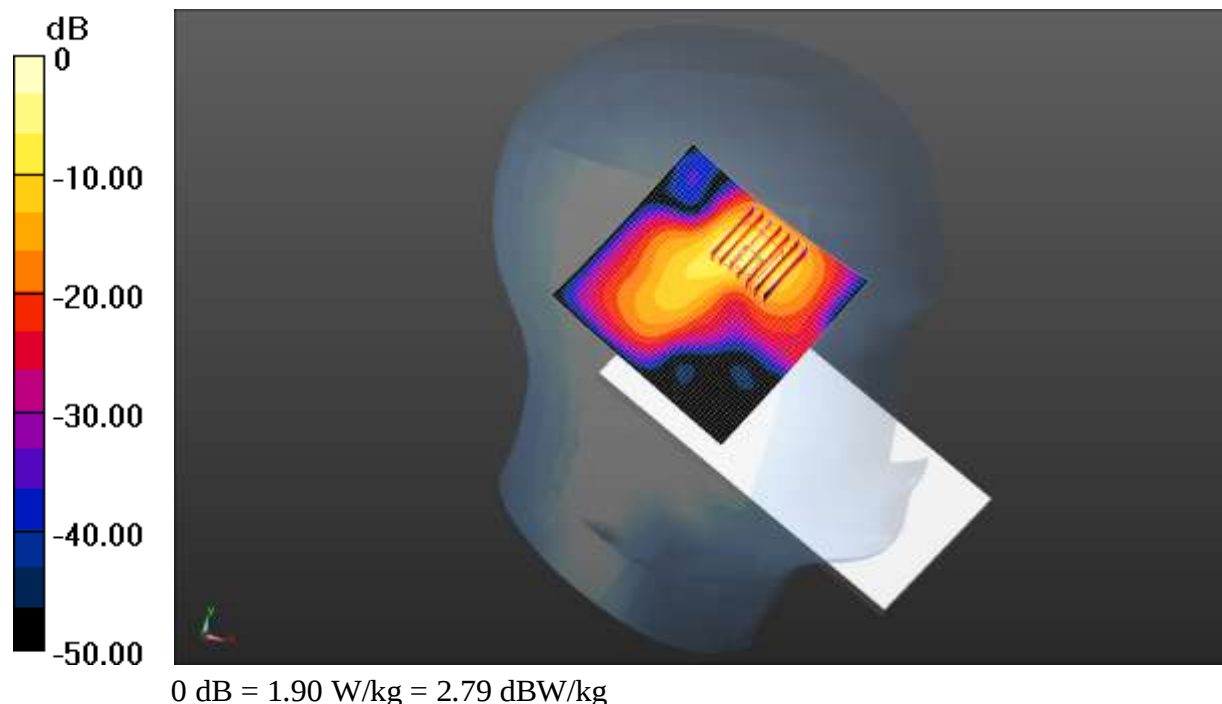
Communication System: UID 0, NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.901$ S/m; $\epsilon_r = 36.667$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3826; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 07.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77(3500) 50%RB(100MHz) Left Cheek/Middle Channel/Area Scan
(51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.929 W/kg

NR n77(3500) 50%RB(100MHz) Left Cheek/Middle Channel/Zoom Scan
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 4.683 V/m; Power Drift = -0.05 dB
 Peak SAR (extrapolated) = 2.78 W/kg
SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.291 W/kg
 Smallest distance from peaks to all points 3 dB below = 5.9 mm
 Ratio of SAR at M2 to SAR at M1 = 37.3%
 Maximum value of SAR (measured) = 1.90 W/kg



Test Laboratory: JYTSZ

Date: 07.26.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

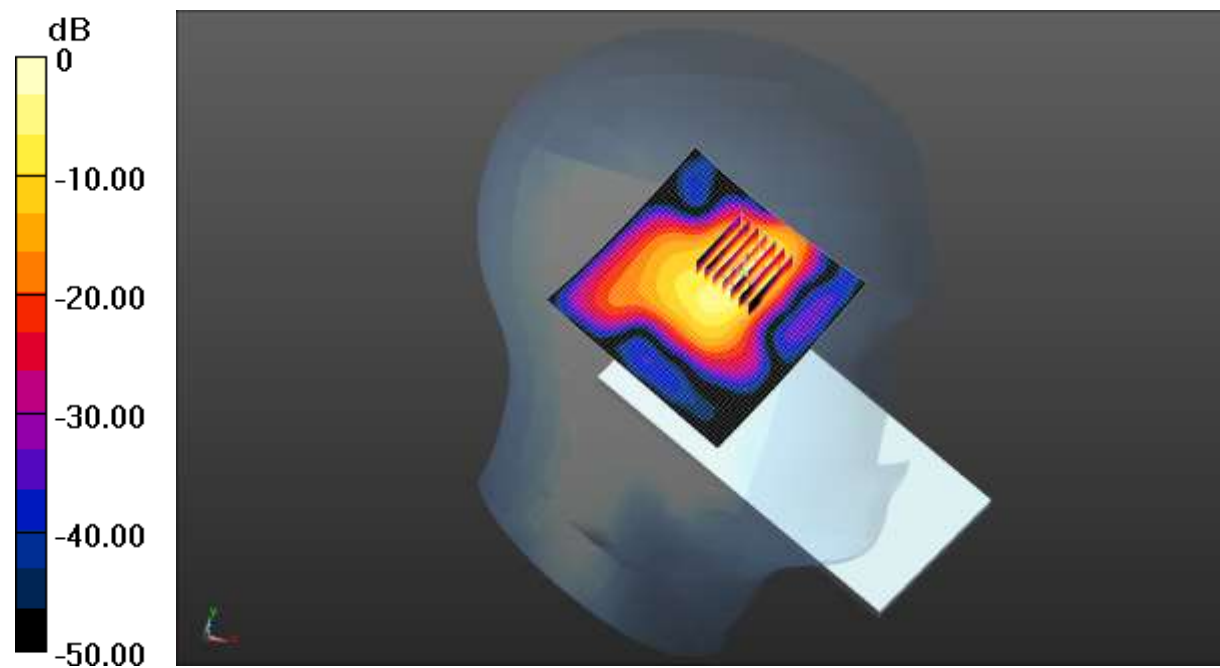
Communication System: UID 0, NR (0); Frequency: 3750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3750 \text{ MHz}$; $\sigma = 3.142 \text{ S/m}$; $\epsilon_r = 36.353$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3826; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 07.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77(3840) 50%RB(100MHz) Left Cheek/Low Channel/Area Scan**(51x51x1):** Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$ Maximum value of SAR (interpolated) = 1.02 W/kg **NR n77(3840) 50%RB(100MHz) Left Cheek/Low Channel/Zoom Scan****(7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$ Reference Value = 2.789 V/m ; Power Drift = -0.17 dB Peak SAR (extrapolated) = 1.98 W/kg **SAR(1 g) = 0.604 W/kg ; SAR(10 g) = 0.188 W/kg** Smallest distance from peaks to all points 3 dB below = 5 mm Ratio of SAR at M2 to SAR at M1 = 31.5% Maximum value of SAR (measured) = 1.39 W/kg 

Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.703 \text{ S/m}$; $\epsilon_r = 37.299$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2412 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2.4GWIFI Left Cheek/Low Channel/Area Scan (51x51x1): Interpolated grid:

$dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.146 W/kg

2.4GWIFI Left Cheek/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.00 dB

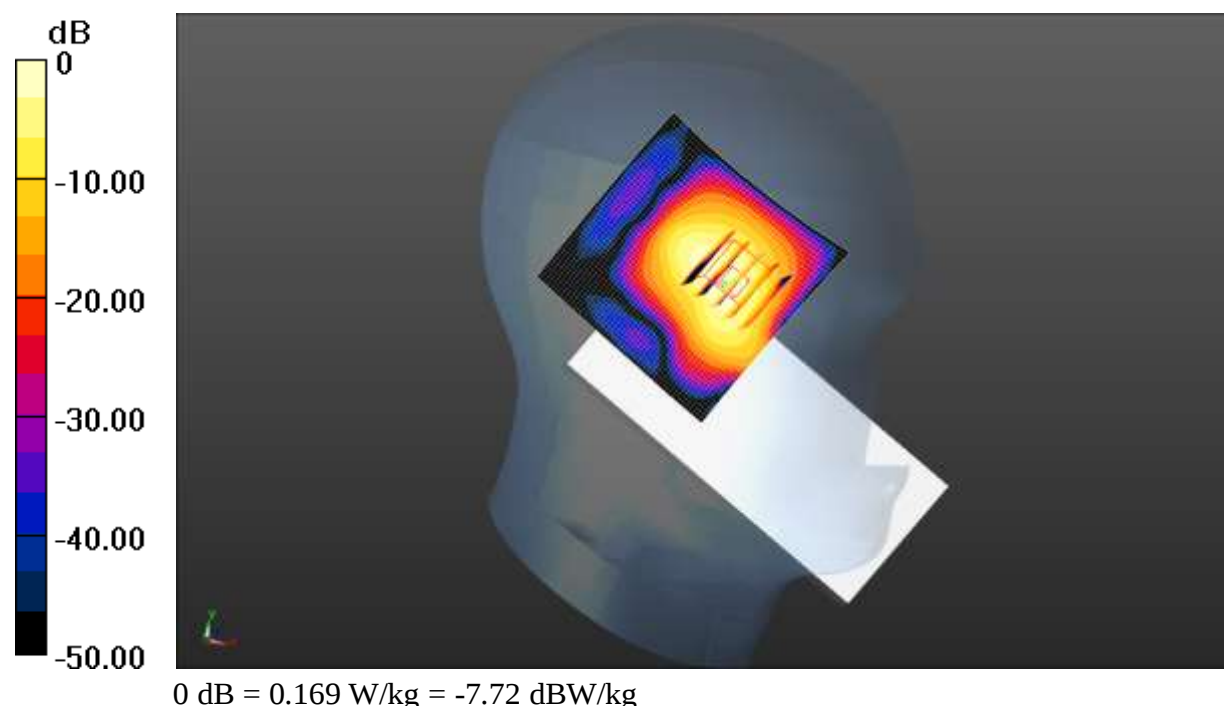
Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.036 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 45.8%

Maximum value of SAR (measured) = 0.169 W/kg



Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.706$ S/m; $\epsilon_r = 37.293$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2441 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

BT Left Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0749 W/kg

BT Left Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

 $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.787 V/m; Power Drift = -0.04 dB

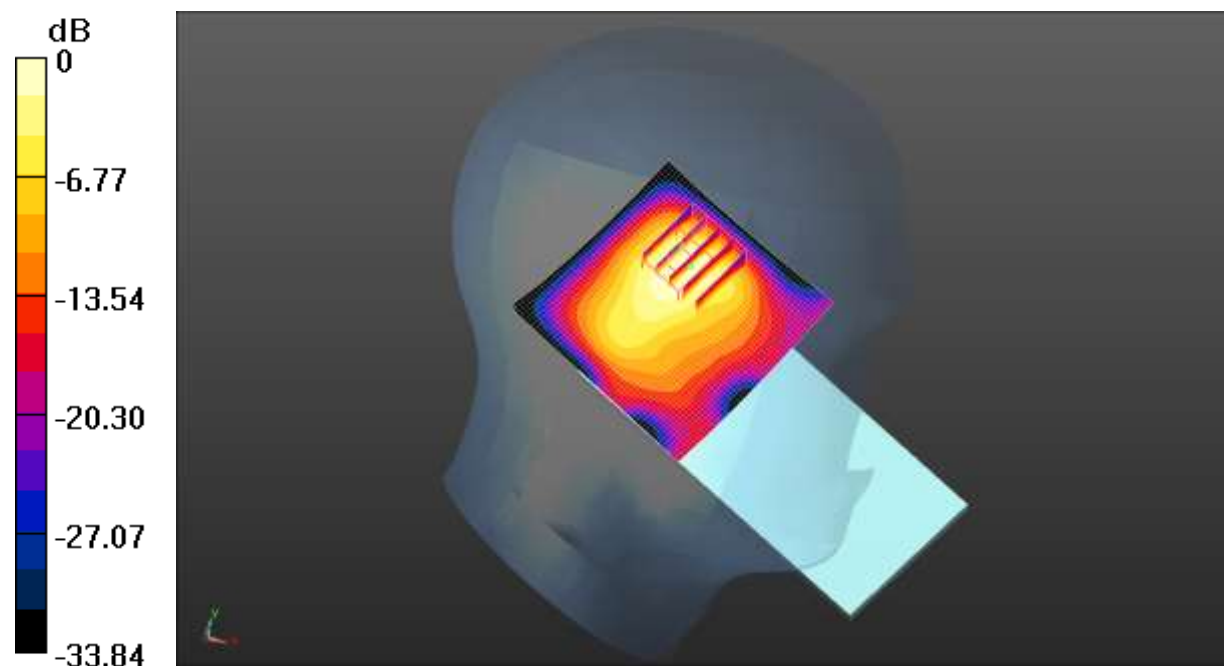
Peak SAR (extrapolated) = 0.0880 W/kg

SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 39.4%

Maximum value of SAR (measured) = 0.0633 W/kg



0 dB = 0.0633 W/kg = -11.99 dBW/kg

Test Laboratory: JYTSZ

Date: 08.12.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.778 \text{ S/m}$; $\epsilon_r = 35.848$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.35, 5.35, 5.35) @ 5200 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5.2GWIFI Left Cheek/Middle Channel/Area Scan (41x51x1): Interpolated grid:
 $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.113 W/kg

5.2GWIFI Left Cheek/Middle Channel/Zoom Scan (7x7x7)/Cube 0:Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.3210 V/m; Power Drift = 0.01 dB

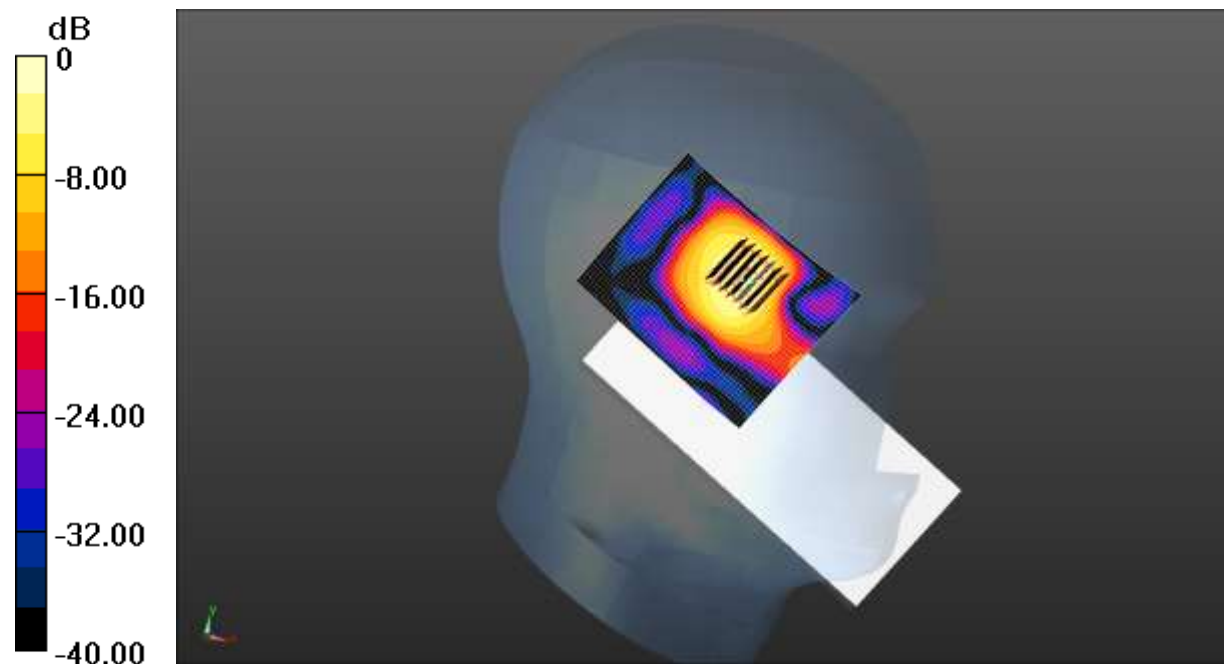
Peak SAR (extrapolated) = 0.285 W/kg

SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.018 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 6.3%

Maximum value of SAR (measured) = 0.197 W/kg



0 dB = 0.197 W/kg = -7.06 dBW/kg

Test Laboratory: JYTSZ

Date: 08.15.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825 \text{ MHz}$; $\sigma = 5.447 \text{ S/m}$; $\epsilon_r = 34.864$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.04, 5.04, 5.04) @ 5825 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5.8GWIFI Left Cheek/High Channel/Area Scan (41x51x1): Interpolated grid:
dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.435 W/kg

5.8GWIFI Left Cheek/High Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

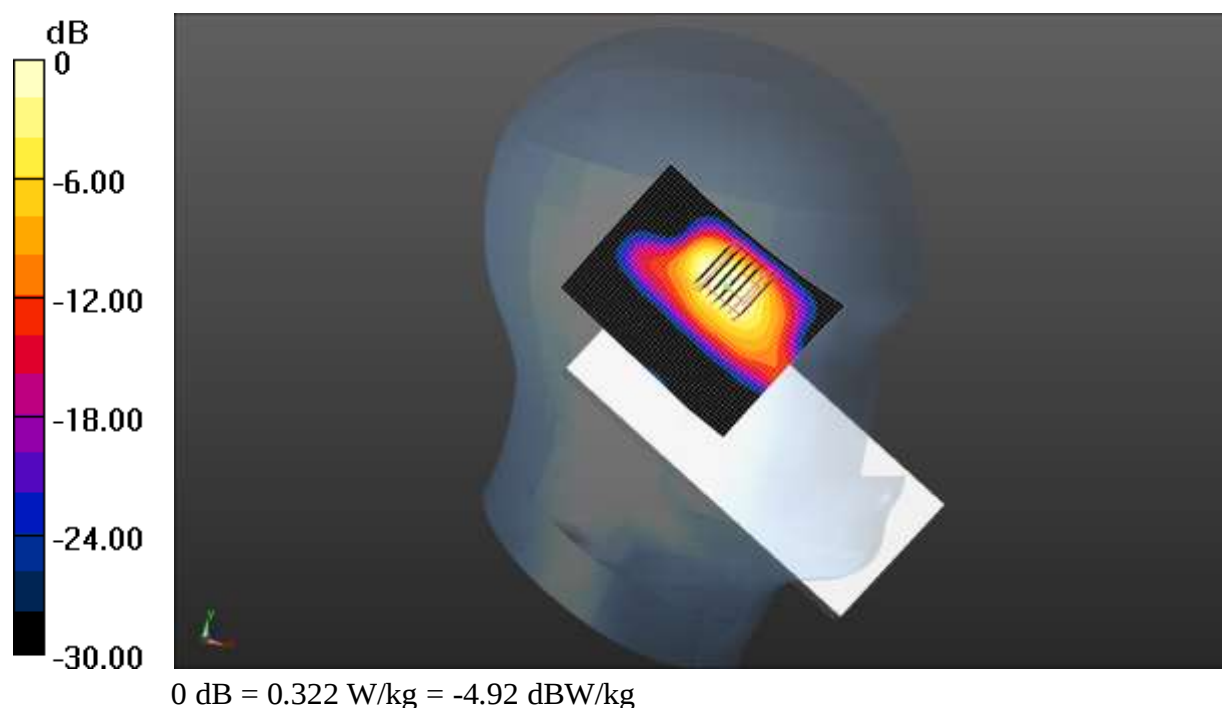
Peak SAR (extrapolated) = 0.483 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.029 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 12.5%

Maximum value of SAR (measured) = 0.322 W/kg



Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, GPRS(4 Slots) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1.99986

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 39.965$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.2, 10.2, 10.2) @ 836.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GPRS 850 4slots Body Back/Middle Channel/Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.629 W/kg

GPRS 850 4slots Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.33 V/m; Power Drift = -0.01 dB

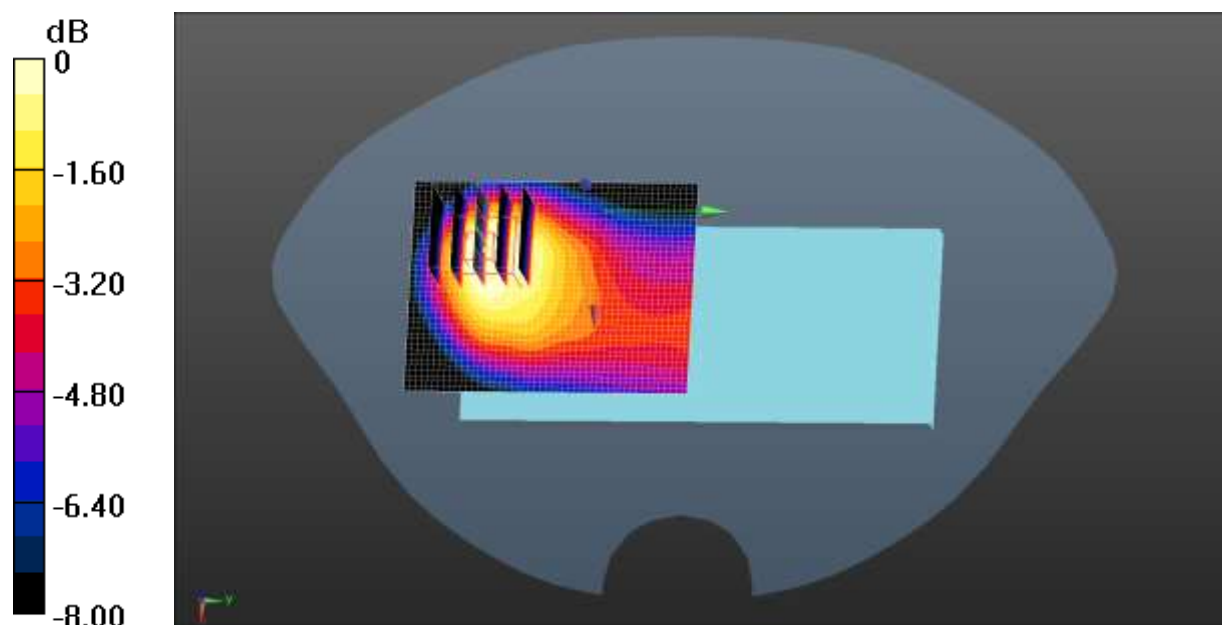
Peak SAR (extrapolated) = 0.581 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.200 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

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

Maximum value of SAR (measured) = 0.458 W/kg



0 dB = 0.458 W/kg = -3.39 dBW/kg

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, GPRS(4 Slots) (0); Frequency: 1850.2 MHz; Duty Cycle: 1:1.99986

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 38.294$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1850.2 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GPRS 1900 4slots Body Back/Low Channel/Area Scan (41x51x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.14 W/kg

GPRS 1900 4slots Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.728 V/m; Power Drift = -0.07 dB

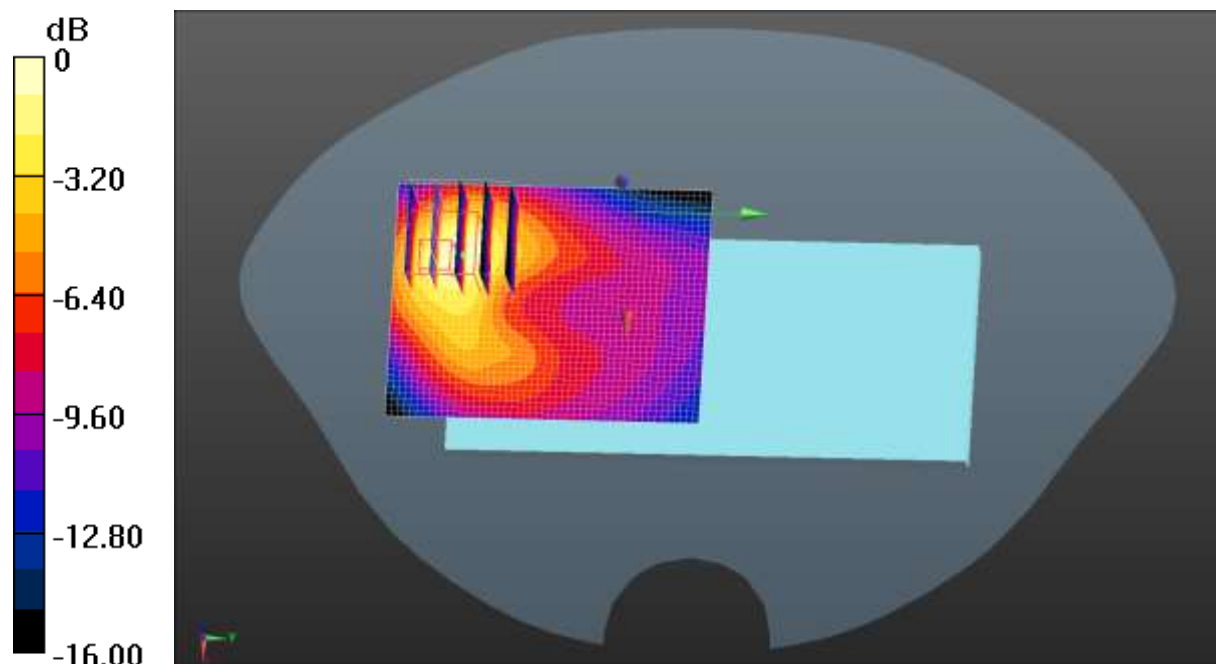
Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.380 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 1.16 W/kg



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

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 38.313$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1852.4 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1900 Body Back/Low Channel/Area Scan (41x41x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.404 W/kg

WCDMA 1900 Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.510 V/m; Power Drift = 0.07 dB

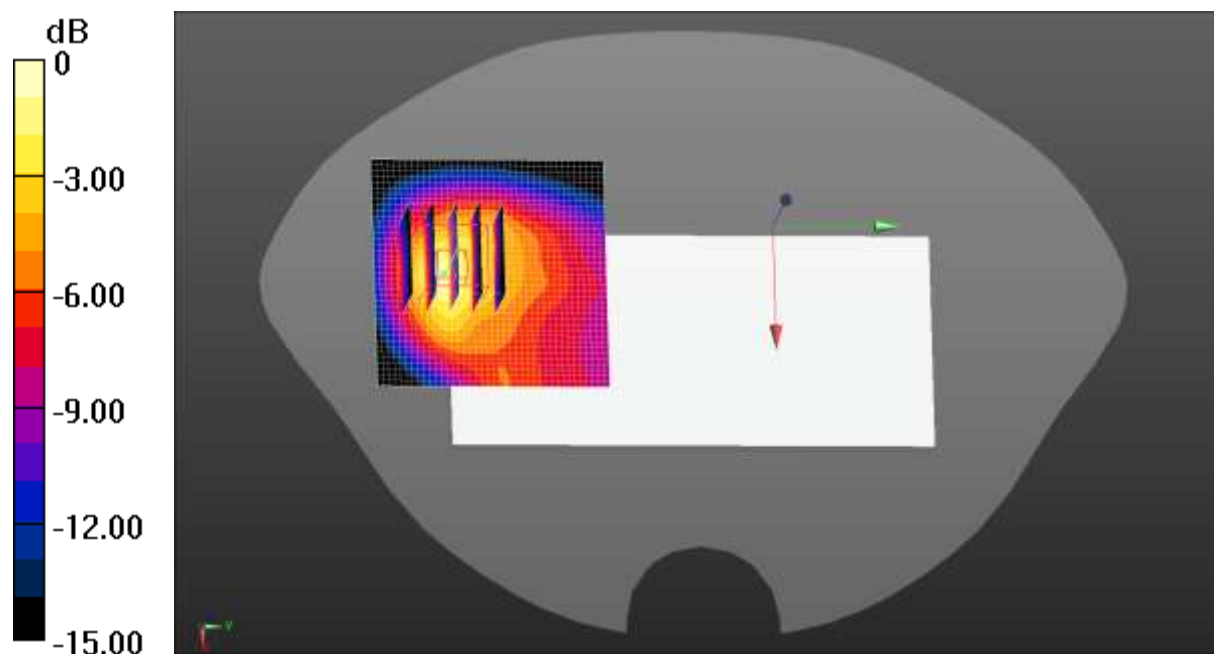
Peak SAR (extrapolated) = 0.533 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.144 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 0.439 W/kg



0 dB = 0.439 W/kg = -3.58 dBW/kg

Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.32$ S/m; $\epsilon_r = 38.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1732.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1700 Body Back/Middle Channel/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.472 W/kg

WCDMA 1700 Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.616 V/m; Power Drift = -0.04 dB

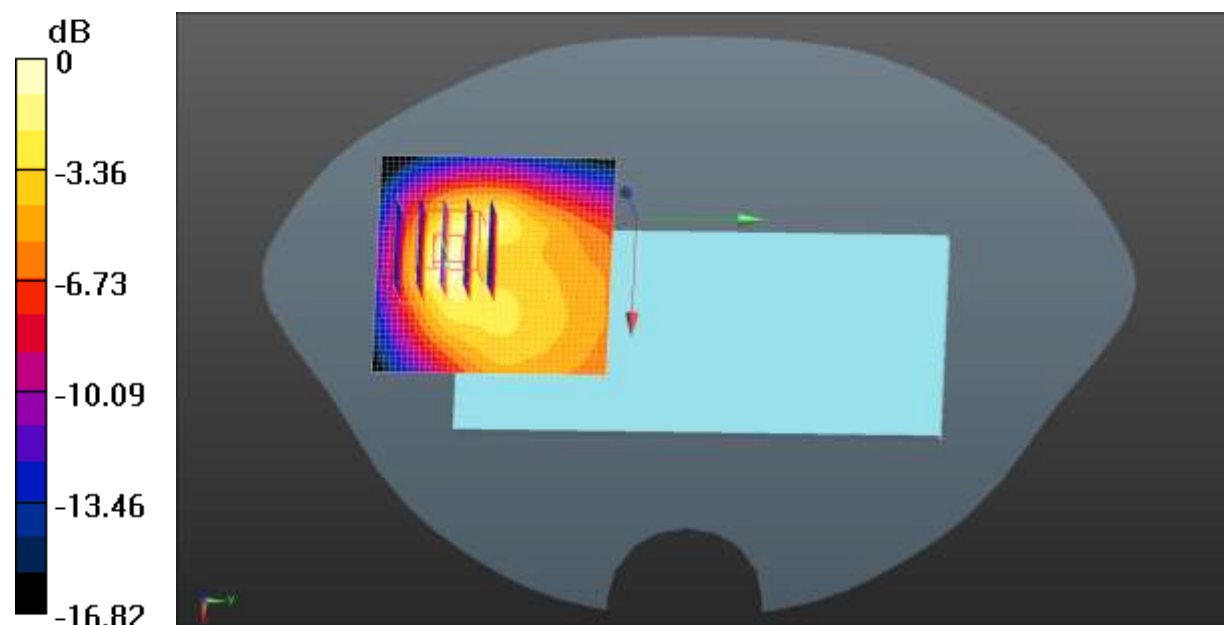
Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.167 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.475 W/kg



0 dB = 0.475 W/kg = -3.23 dBW/kg

Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 39.965$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.2, 10.2, 10.2) @ 836.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 850 Body Back/Middle Channel/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.209 W/kg

WCDMA 850 Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.23 V/m; Power Drift = -0.02 dB

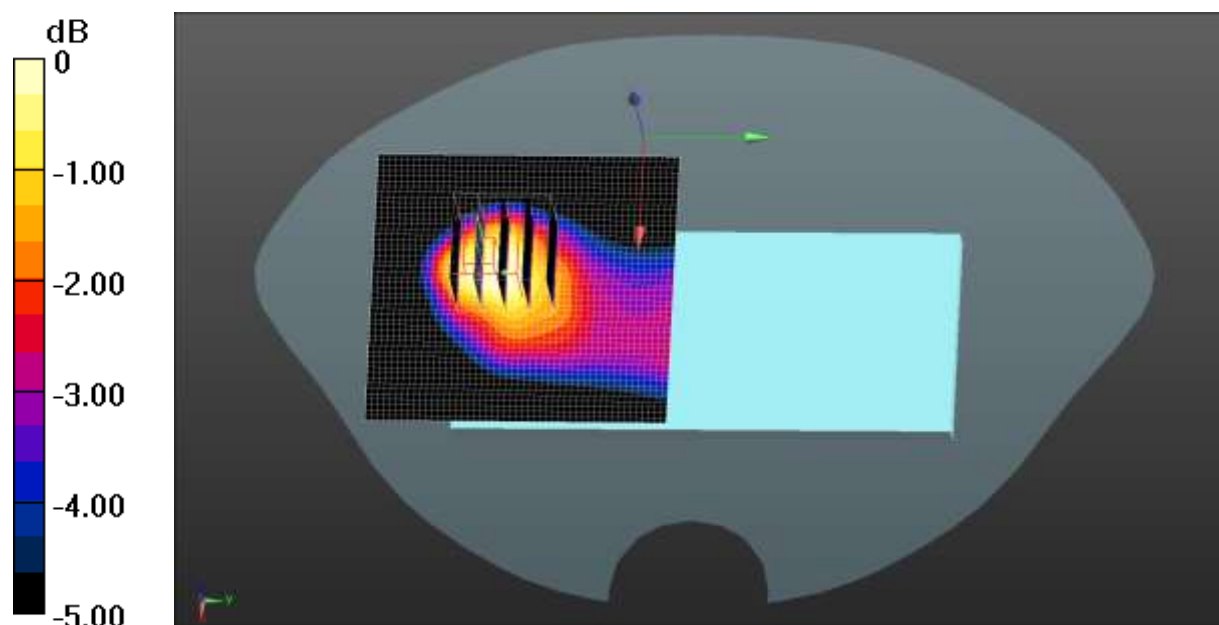
Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.084 W/kg

Smallest distance from peaks to all points 3 dB below = 22.9 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 0.201 W/kg



0 dB = 0.201 W/kg = -6.97 dBW/kg

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.354 \text{ S/m}$; $\epsilon_r = 38.205$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1860 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 1RB(20MHz) Body Back/Middle Channel/Area Scan (41x51x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.306 W/kg

LTE Band 2 1RB(20MHz) Body Back/Middle Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.288 V/m ; Power Drift = 0.05 dB

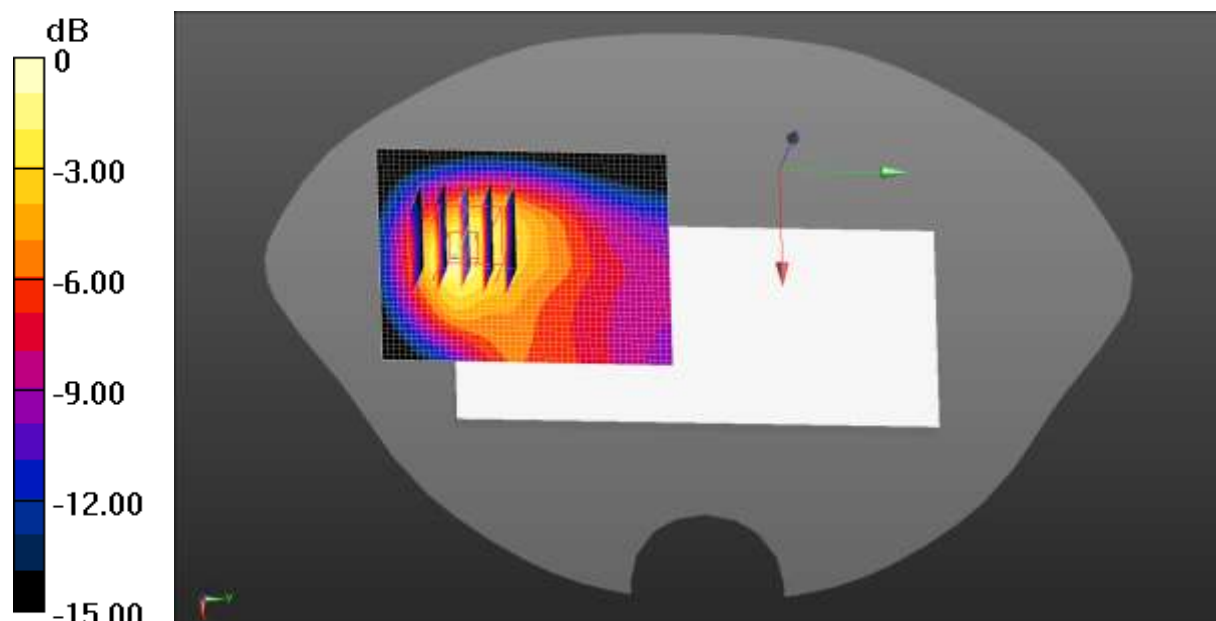
Peak SAR (extrapolated) = 0.435 W/kg

SAR(1 g) = 0.230 W/kg ; SAR(10 g) = 0.120 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 0.359 W/kg



0 dB = 0.359 W/kg = -4.45 dBW/kg

Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 39.965$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.2, 10.2, 10.2) @ 836.5 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 5 1RB(10MHz) Body Back/Middle Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.256 W/kg

LTE Band 5 1RB(10MHz) Body Back/Middle Channel/Zoom Scan

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

Reference Value = 12.19 V/m; Power Drift = 0.00 dB

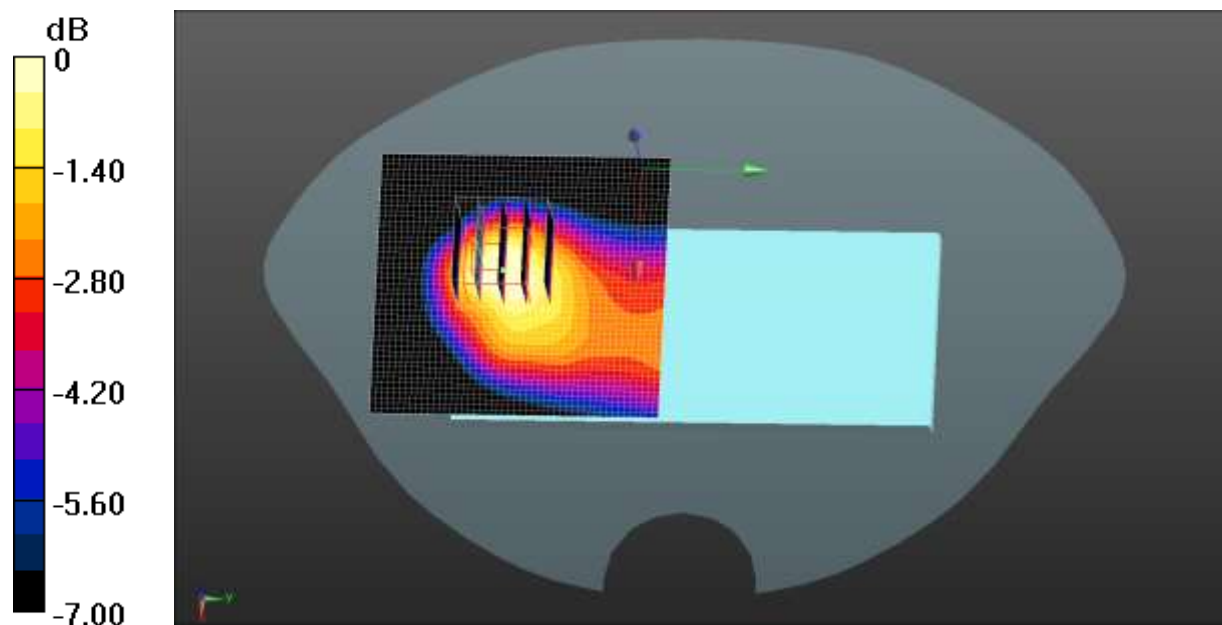
Peak SAR (extrapolated) = 0.272 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.092 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.222 W/kg



0 dB = 0.222 W/kg = -6.54 dBW/kg

Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 37.179$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2510 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 7 1RB(20MHz) Body Back/Low Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.610 W/kg

LTE Band 7 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.064 V/m; Power Drift = 0.18 dB

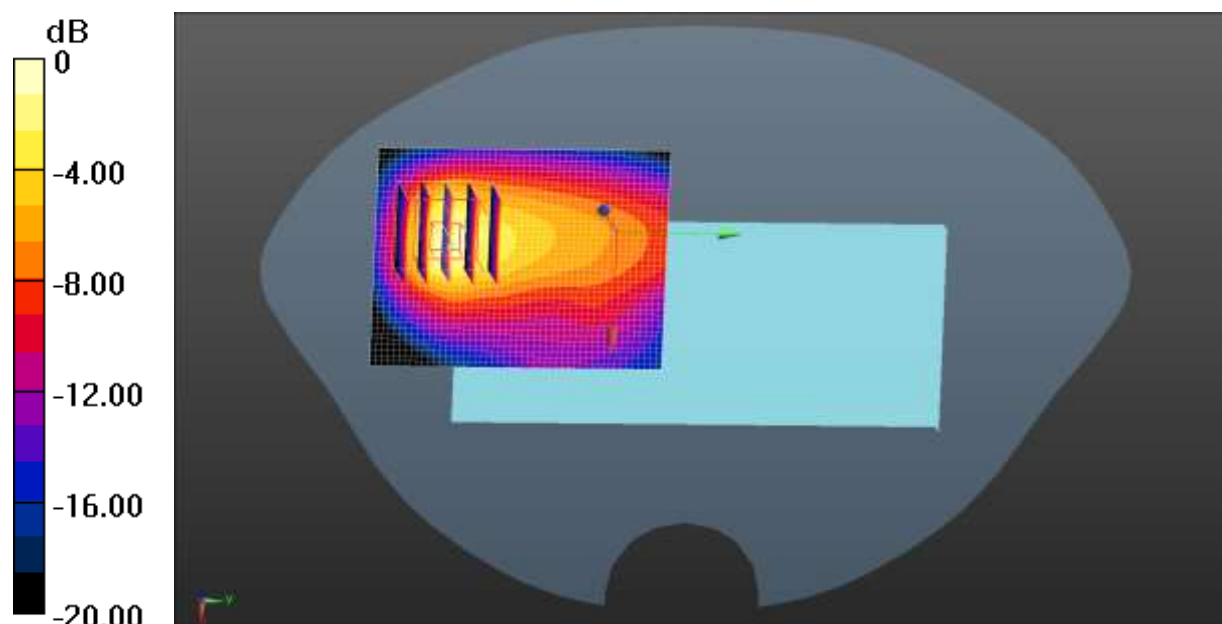
Peak SAR (extrapolated) = 0.887 W/kg

SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.184 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 45.2%

Maximum value of SAR (measured) = 0.708 W/kg



0 dB = 0.708 W/kg = -1.50 dBW/kg

Test Laboratory: JYTSZ

Date: 08.09.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 1.826$ S/m; $\epsilon_r = 37.371$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2593 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 41 1RB(20MHz) Body Back/Middle Channel/Area Scan (51x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.348 W/kg

LTE Band 41 1RB(20MHz) Body Back/Middle Channel/Zoom Scan

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

Reference Value = 2.634 V/m; Power Drift = 0.07 dB

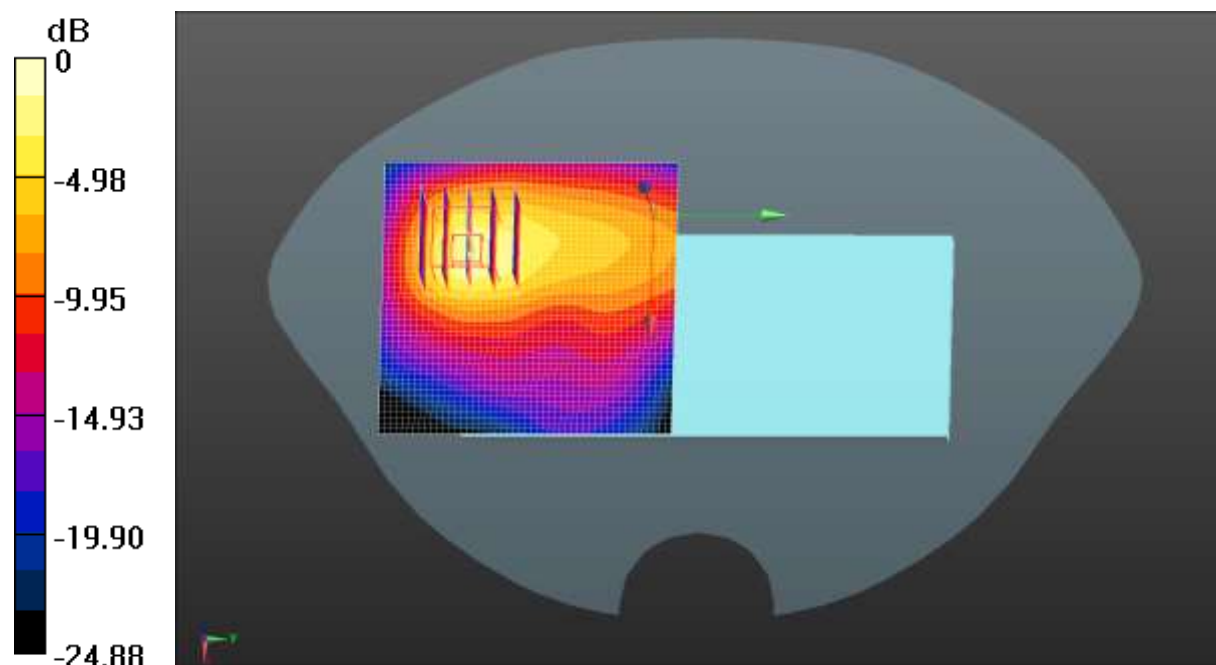
Peak SAR (extrapolated) = 0.666 W/kg

SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.137 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 44.5%

Maximum value of SAR (measured) = 0.523 W/kg



0 dB = 0.523 W/kg = -2.81 dBW/kg

Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.325 \text{ S/m}$; $\epsilon_r = 38.247$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1745 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 66 1RB(20MHz) Body Back/Middle Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.240 W/kg

LTE Band 66 1RB(20MHz) Body Back/Middle Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.388 V/m ; Power Drift = 0.01 dB

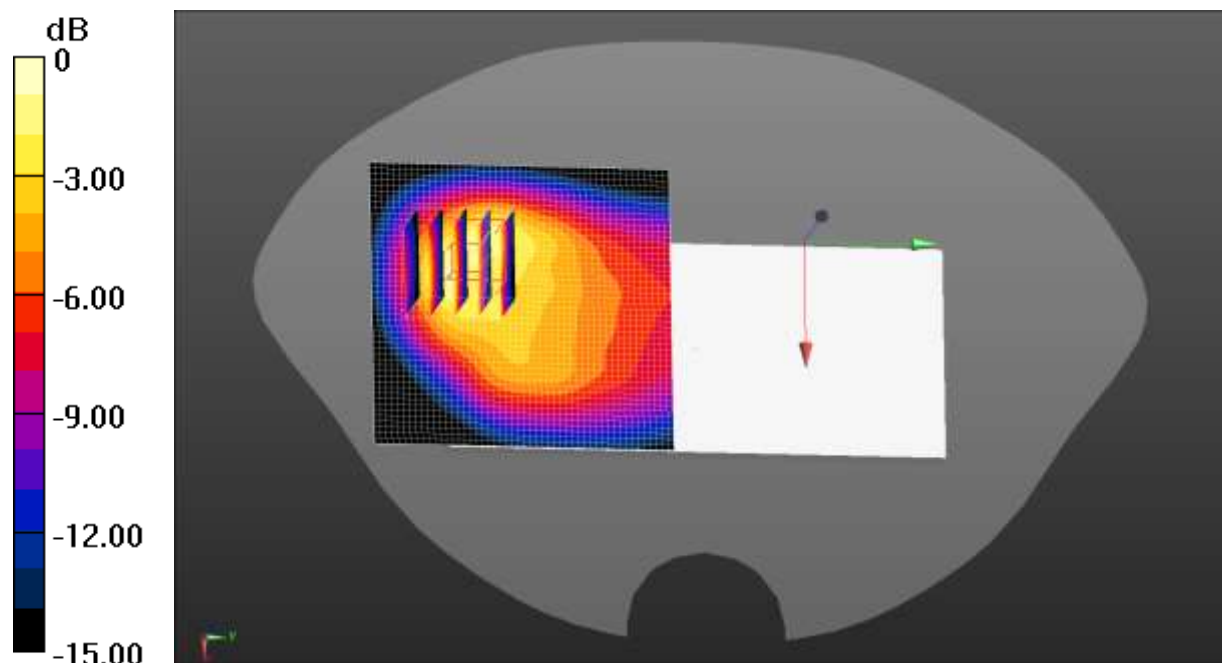
Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.194 W/kg ; SAR(10 g) = 0.104 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 0.289 W/kg



0 dB = 0.289 W/kg = -5.39 dBW/kg

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

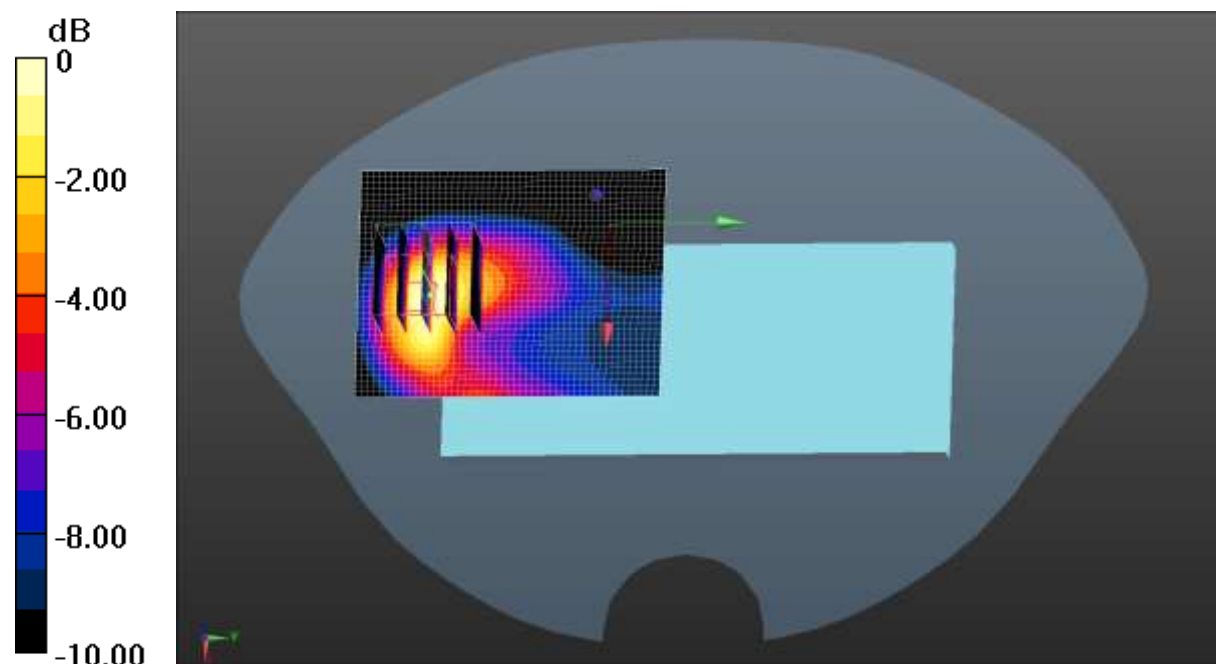
Communication System: UID 0, NR (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.376 \text{ S/m}$; $\epsilon_r = 38.262$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1900 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n2 1RB(20MHz) Body Back/High Channel/Area Scan (41x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.258 W/kg **NR n2 1RB(20MHz) Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 4.360 V/m ; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.307 W/kg **SAR(1 g) = 0.166 W/kg ; SAR(10 g) = 0.087 W/kg** Smallest distance from peaks to all points 3 dB below = 10.1 mm Ratio of SAR at M2 to SAR at M1 = 53.2% Maximum value of SAR (measured) = 0.247 W/kg 0 dB = 0.247 W/kg = -6.07 dBW/kg

Test Laboratory: JYTSZ

Date: 08.18.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 834 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 834$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 40.031$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.2, 10.2, 10.2) @ 834 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n5 1RB(20MHz) Body Back/Low Channel/Area Scan (51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.223 W/kg

NR n5 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.50 V/m; Power Drift = -0.10 dB

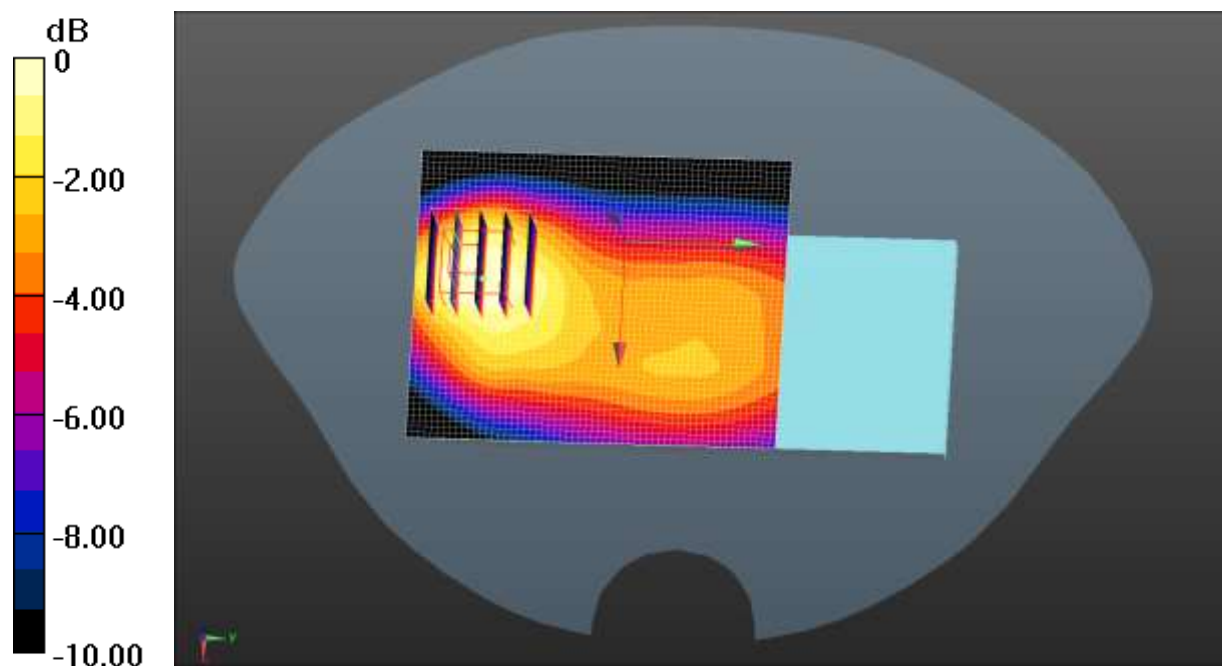
Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.093 W/kg

Smallest distance from peaks to all points 3 dB below = 26.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.211 W/kg = -6.76 dBW/kg

Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 37.382$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2510 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n7 1RB(20MHz) Body Back/Low Channel/Area Scan (41x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.734 W/kg

NR n7 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.955 V/m; Power Drift = -0.01 dB

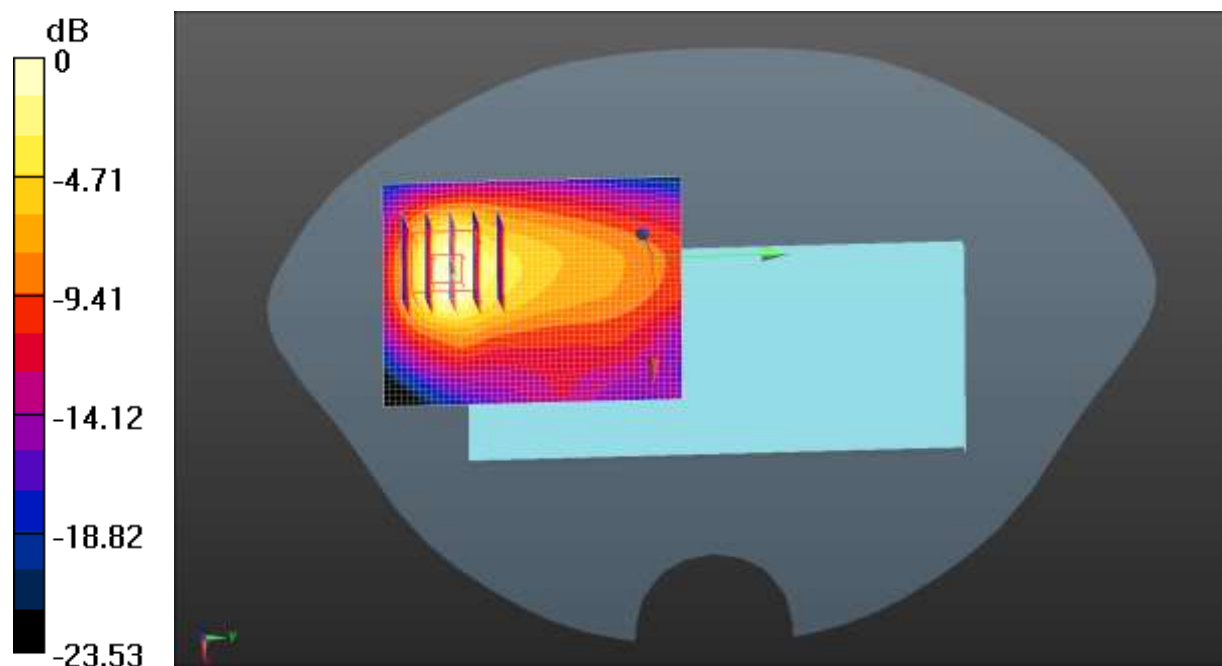
Peak SAR (extrapolated) = 0.948 W/kg

SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.196 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 44.6%

Maximum value of SAR (measured) = 0.713 W/kg



0 dB = 0.713 W/kg = -1.47 dBW/kg

Test Laboratory: JYTSZ

Date: 08.09.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 2546.01 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2546.01$ MHz; $\sigma = 1.863$ S/m; $\epsilon_r = 37.281$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

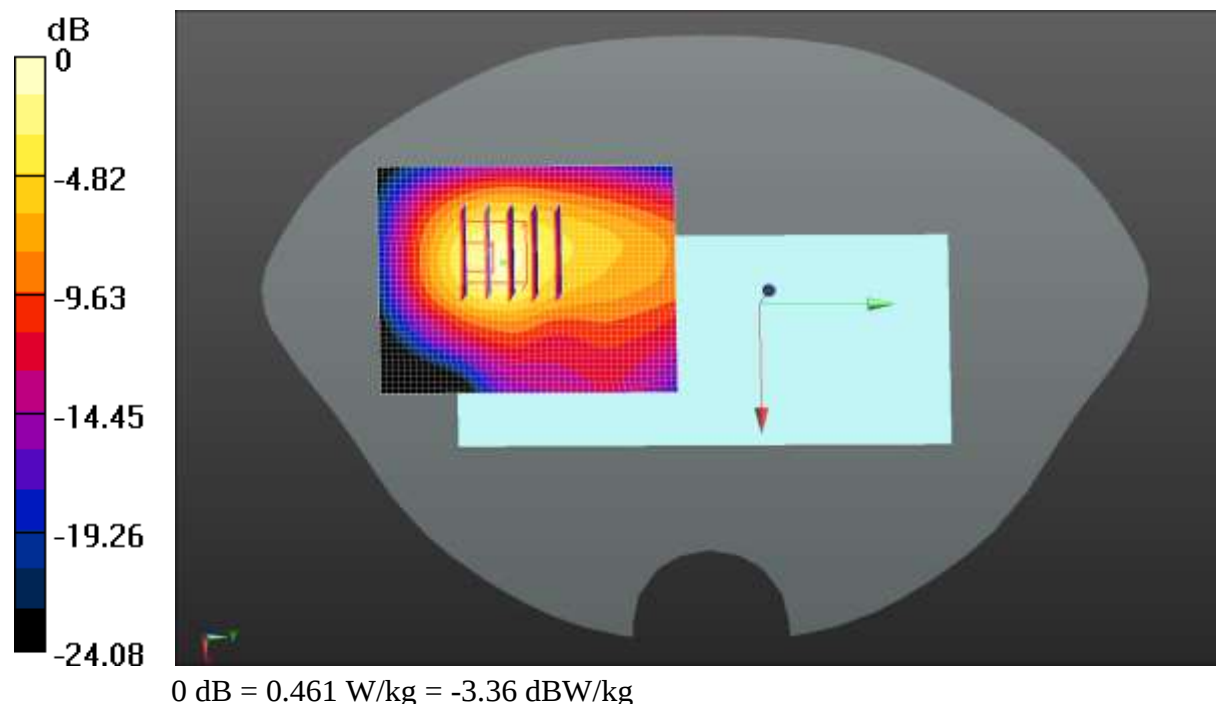
- Probe: EX3DV4 - SN7601; ConvF(7.49, 7.49, 7.49) @ 2546.01 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n41 1RB(100MHz) Body Back/Low Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.380 W/kg

NR n41 1RB(100MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.788 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.589 W/kg
SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.117 W/kg
Smallest distance from peaks to all points 3 dB below = 10.2 mm
Ratio of SAR at M2 to SAR at M1 = 43.6%
Maximum value of SAR (measured) = 0.461 W/kg



Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 1730 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1730$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 38.247$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1730 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n66 1RB(20MHz) Body Back/Low Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.376 W/kg

NR n66 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.225 V/m; Power Drift = -0.15 dB

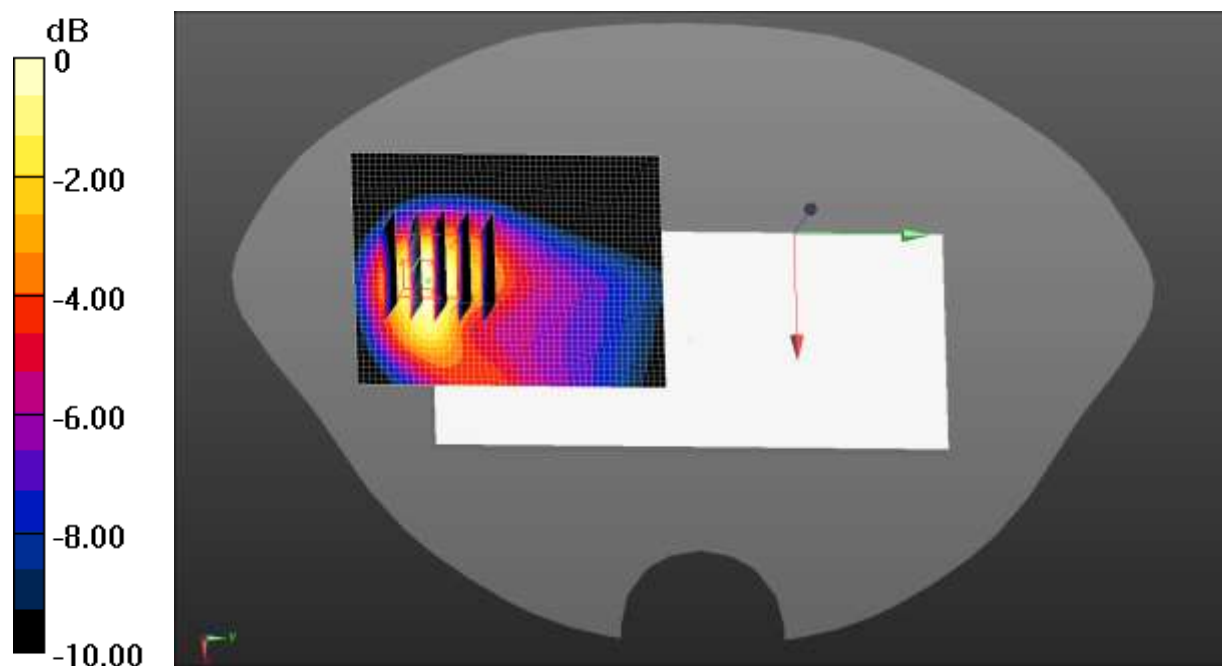
Peak SAR (extrapolated) = 0.417 W/kg

SAR(1 g) = 0.217 W/kg; SAR(10 g) = 0.114 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 0.315 W/kg



0 dB = 0.315 W/kg = -5.02 dBW/kg

Test Laboratory: JYTSZ

Date: 08.17.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 688 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 688$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 40.35$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.58, 10.58, 10.58) @ 688 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n71 1RB(20MHz) Body Back/ High Channel/Area Scan (51x61x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.114 W/kg

NR n71 1RB(20MHz) Body Back/ High Channel/Zoom Scan (5x5x7)/Cube 0:

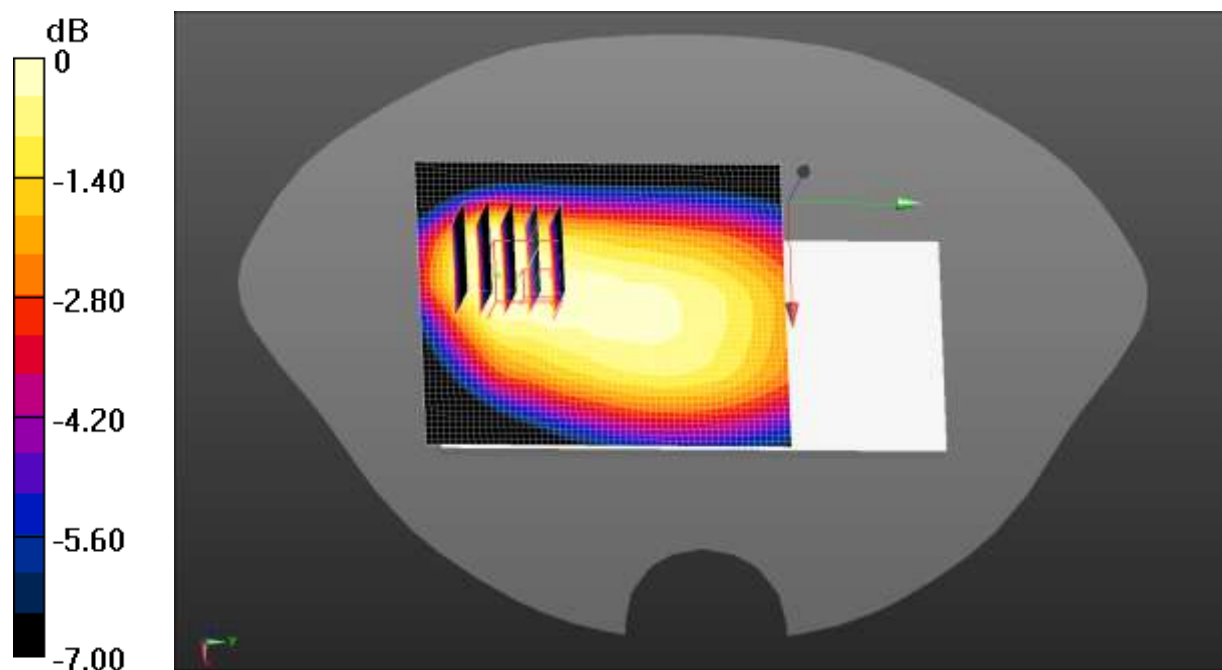
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 10.52 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.054 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 63.7%

Maximum value of SAR (measured) = 0.104 W/kg



0 dB = 0.104 W/kg = -9.83 dBW/kg

Test Laboratory: JYTSZ

Date: 07.22.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

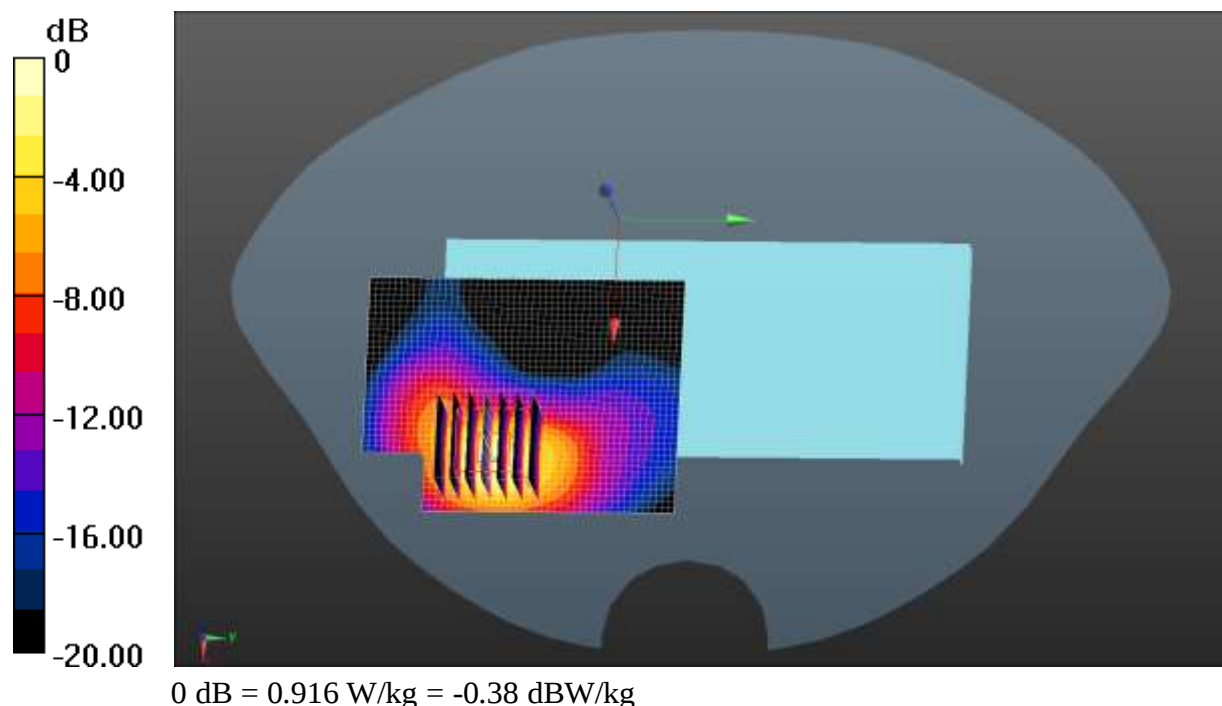
Communication System: UID 0, NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.901$ S/m; $\epsilon_r = 36.667$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3826; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 07.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77(3500) 50%RB(100MHz) Body Back/Middle Channel/Area Scan
(41x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.923 W/kg

NR n77(3500) 50%RB(100MHz) Body Back/Middle Channel/Zoom Scan
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 1.779 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.208 W/kg
 Smallest distance from peaks to all points 3 dB below = 9 mm
 Ratio of SAR at M2 to SAR at M1 = 41.8%
 Maximum value of SAR (measured) = 0.916 W/kg



Test Laboratory: JYTSZ

Date: 07.26.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 3750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3750$ MHz; $\sigma = 3.142$ S/m; $\epsilon_r = 36.353$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3826; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 07.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77(3840) 50%RB(100MHz) Body Back/Low Channel/Area Scan**(41x51x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.346 W/kg

NR n77(3840) 50%RB(100MHz) Body Back/Low Channel/Zoom Scan**(7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 0 V/m; Power Drift = -0.07 dB

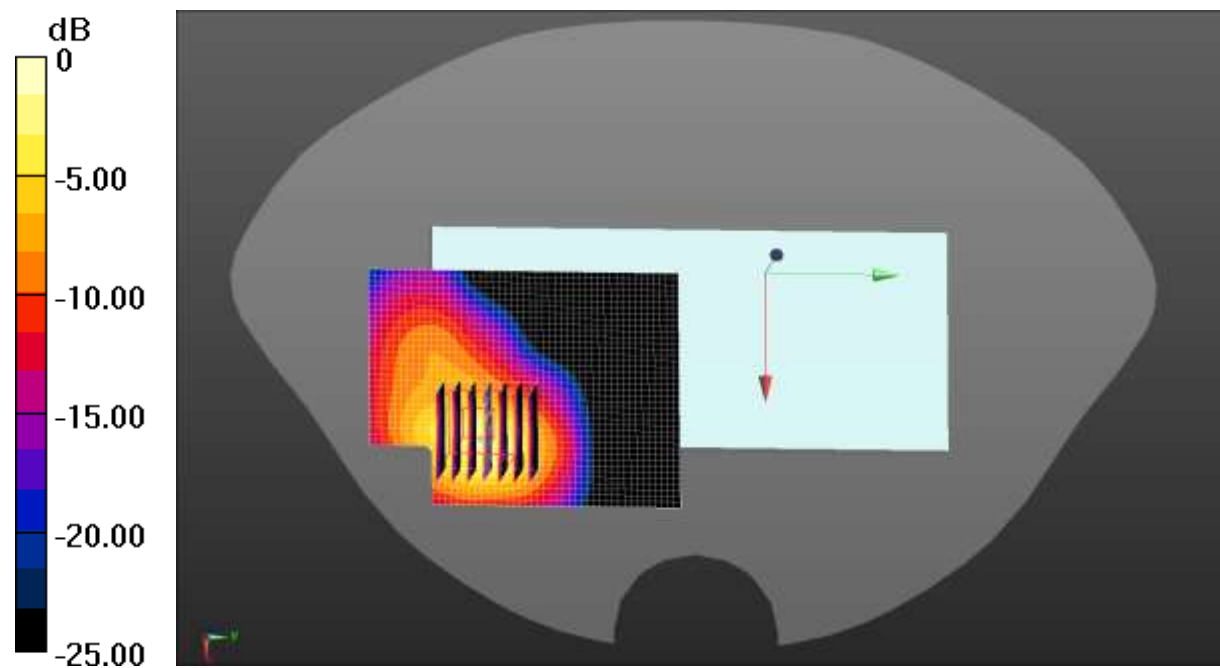
Peak SAR (extrapolated) = 0.658 W/kg

SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 36.5%

Maximum value of SAR (measured) = 0.483 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.703 \text{ S/m}$; $\epsilon_r = 37.299$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2412 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2.4GWIFI Body Back/Low Channel/Area Scan (51x51x1): Interpolated grid:

$dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0728 W/kg

2.4GWIFI Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.572 V/m ; Power Drift = -0.01 dB

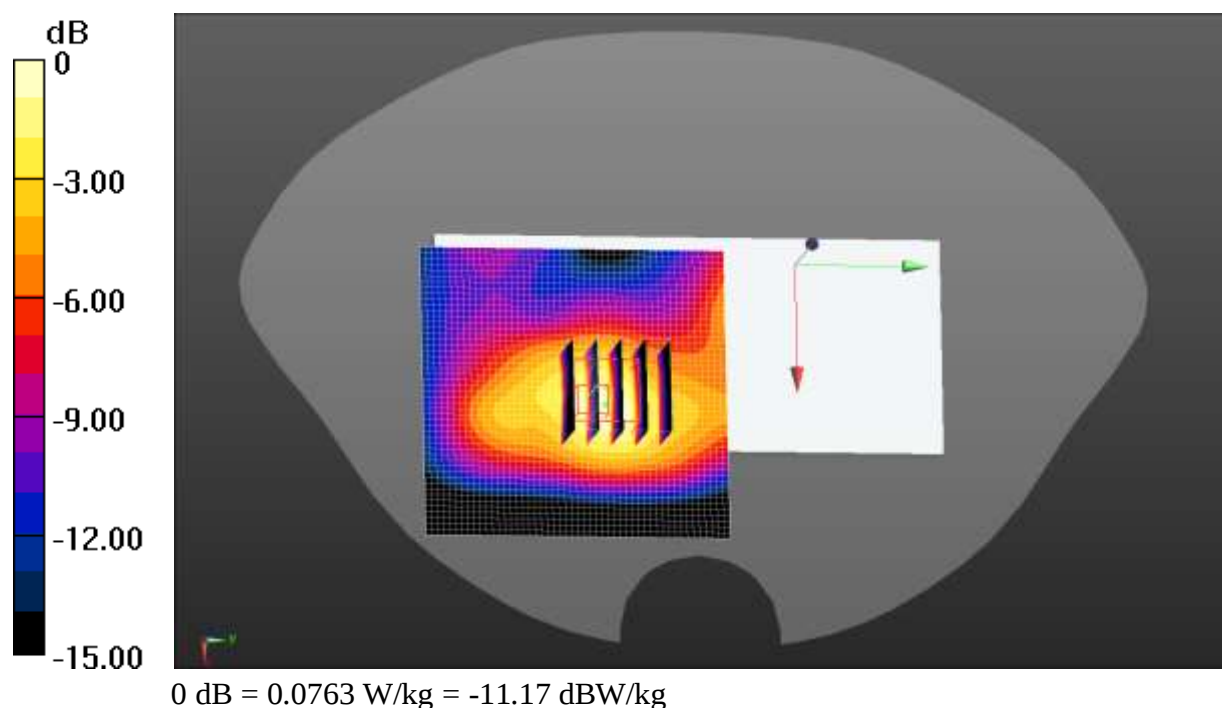
Peak SAR (extrapolated) = 0.0970 W/kg

SAR(1 g) = 0.048 W/kg ; SAR(10 g) = 0.025 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 0.0763 W/kg



Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.706$ S/m; $\epsilon_r = 37.293$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2441 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

BT Body Back/Middle Channel/Area Scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0246 W/kg

BT Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.03 dB

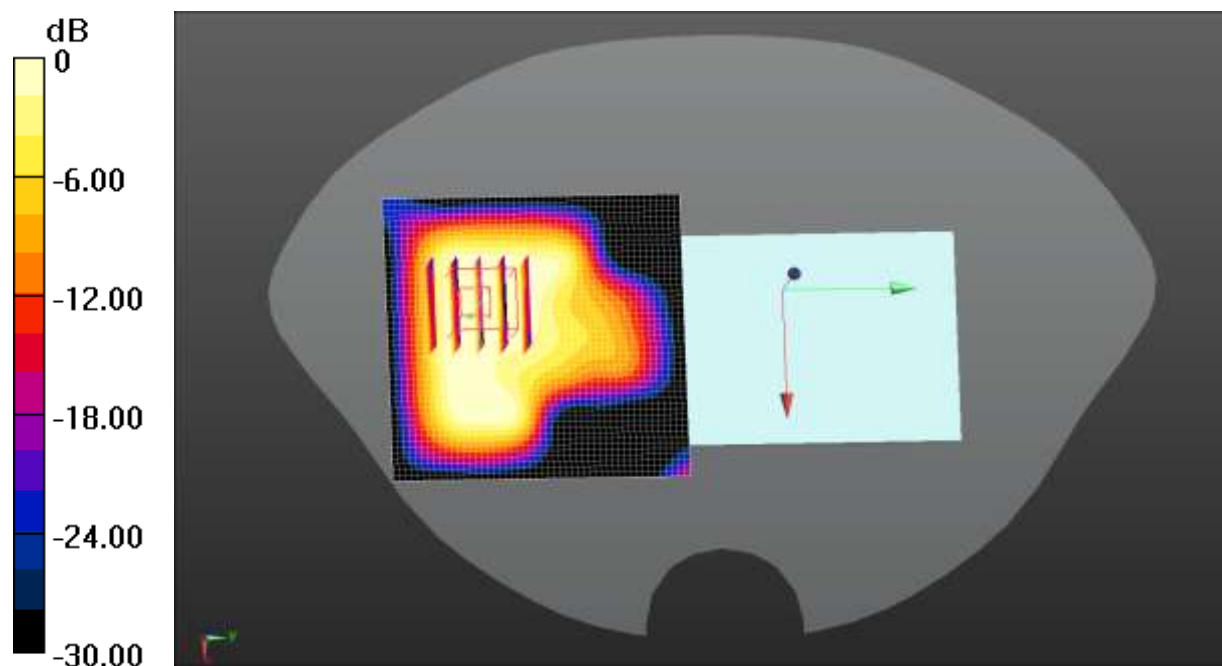
Peak SAR (extrapolated) = 0.0240 W/kg

SAR(1 g) = 0.009 W/kg; SAR(10 g) = 0.004 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 0.0145 W/kg



0 dB = 0.0145 W/kg = -18.39 dBW/kg

Test Laboratory: JYTSZ

Date: 08.12.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.778 \text{ S/m}$; $\epsilon_r = 35.848$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.35, 5.35, 5.35) @ 5200 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5.2GWIFI Body Back/Middle Channel/Area Scan (41x41x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0784 W/kg

5.2GWIFI Body Back/Middle Channel/Zoom Scan (7x7x7)/Cube 0:Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.411 V/m; Power Drift = -0.03 dB

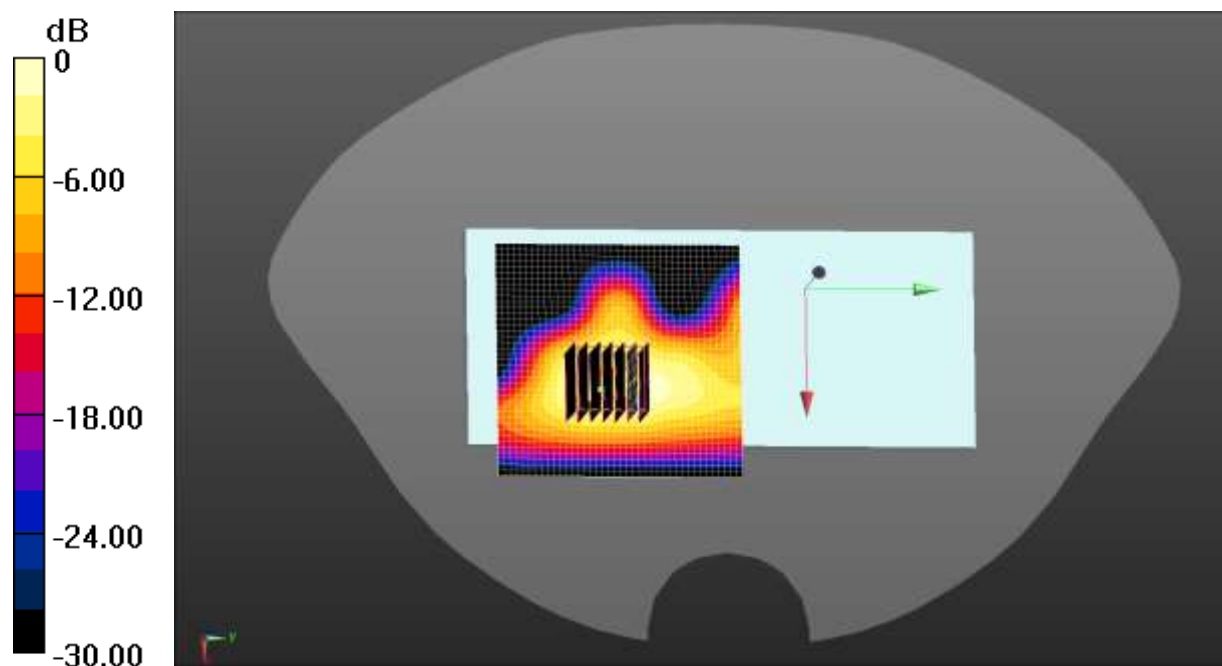
Peak SAR (extrapolated) = 0.128 W/kg

SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00746 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 7.5%

Maximum value of SAR (measured) = 0.0652 W/kg



0 dB = 0.0652 W/kg = -11.86 dBW/kg

Test Laboratory: JYTSZ

Date: 08.15.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.447$ S/m; $\epsilon_r = 34.864$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.04, 5.04, 5.04) @ 5825 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5.8GWIFI Body Back/High Channel/Area Scan (41x51x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.290 W/kg

5.8GWIFI Body Back/High Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 2.533 V/m; Power Drift = -0.15 dB

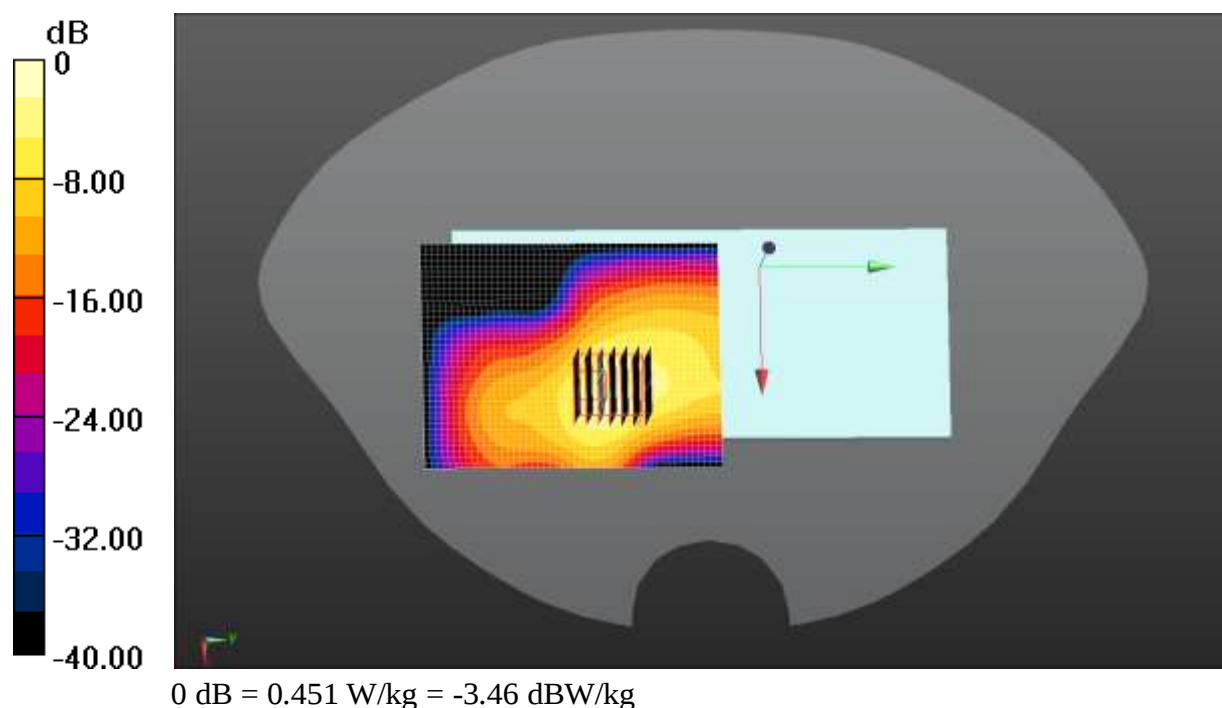
Peak SAR (extrapolated) = 0.657 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 11.2%

Maximum value of SAR (measured) = 0.451 W/kg



Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 38.313$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1852.4 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1900 Body Top/Low Channel/Area Scan (31x51x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.495 W/kg

WCDMA 1900 Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.83 V/m; Power Drift = 0.18 dB

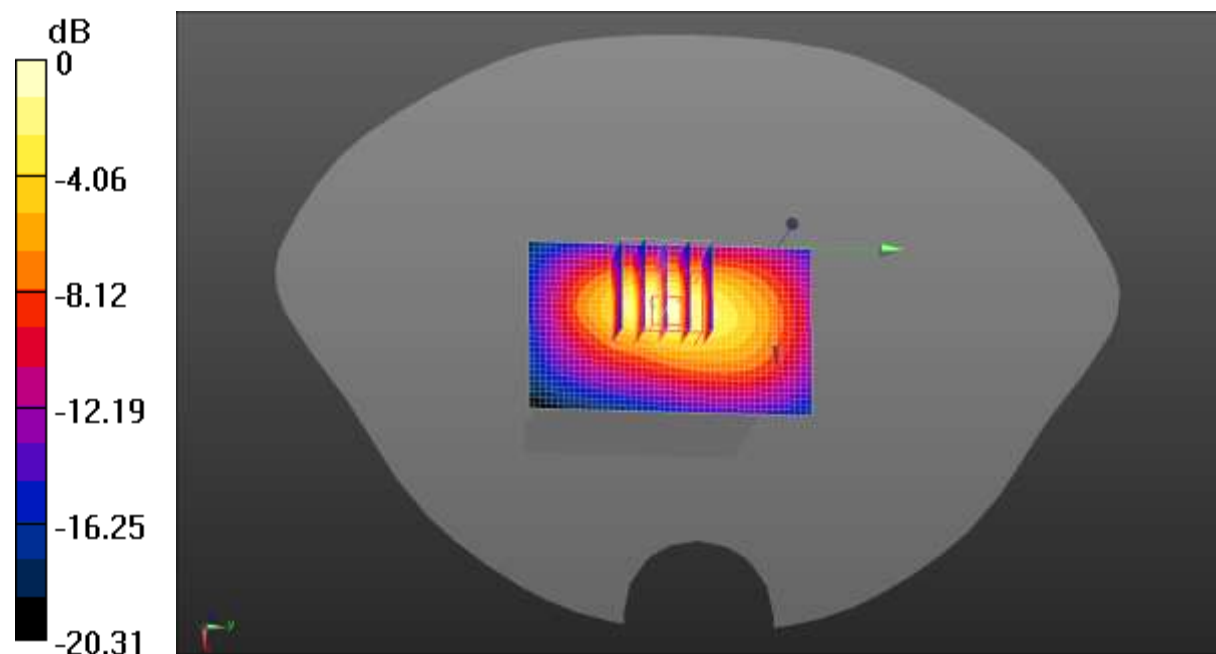
Peak SAR (extrapolated) = 0.763 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.192 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 0.538 W/kg



0 dB = 0.538 W/kg = -2.69 dBW/kg

Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.32$ S/m; $\epsilon_r = 38.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1732.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1700 Body Top/Middle Channel/Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.411 W/kg

WCDMA 1700 Body Top/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.09 V/m; Power Drift = -0.05 dB

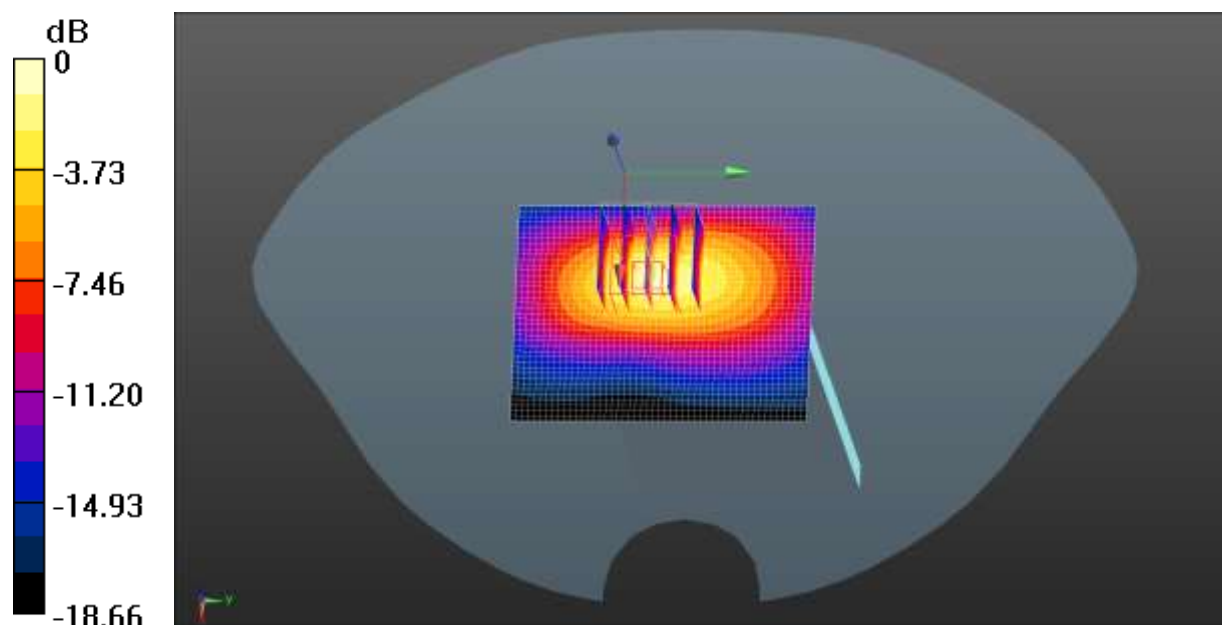
Peak SAR (extrapolated) = 0.710 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.186 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 0.516 W/kg



0 dB = 0.516 W/kg = -2.87 dBW/kg

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.354 \text{ S/m}$; $\epsilon_r = 38.205$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1860 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 1RB(20MHz) Body Top/Low Channel/Area Scan (31x51x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.409 W/kg

LTE Band 2 1RB(20MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.79 V/m ; Power Drift = 0.12 dB

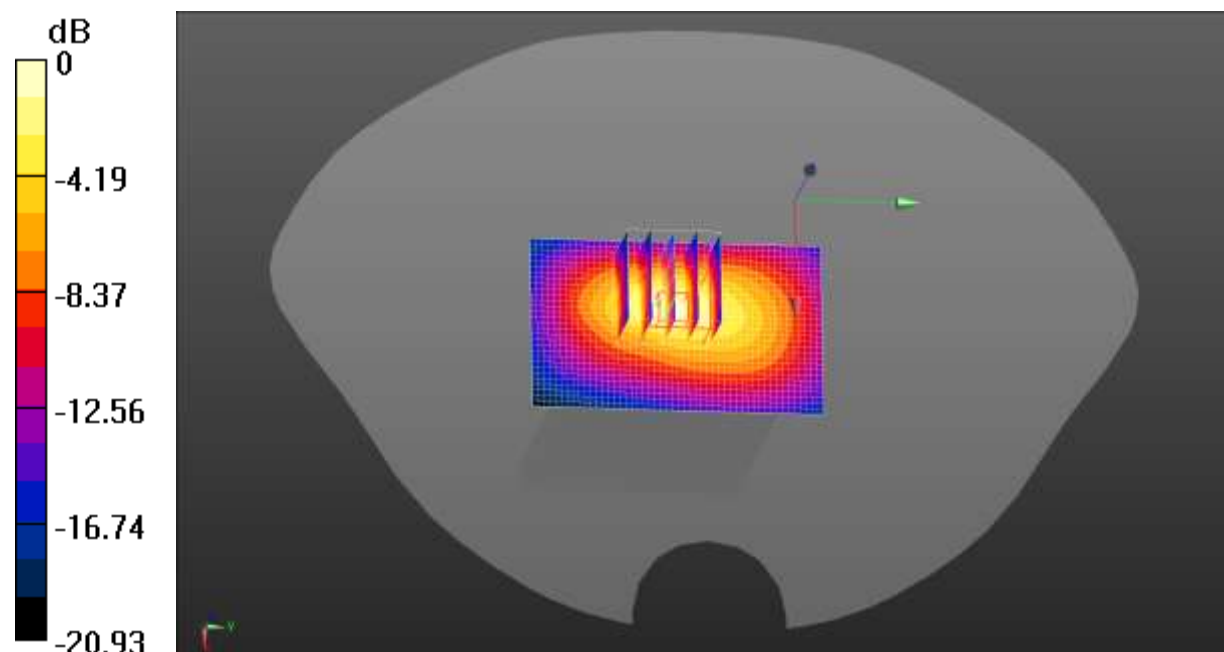
Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.339 W/kg ; SAR(10 g) = 0.166 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 0.476 W/kg



0 dB = 0.476 W/kg = -3.22 dBW/kg

Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 37.179$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2510 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 7 1RB(20MHz) Body Top/Low Channel/Area Scan (31x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.702 W/kg

LTE Band 7 1RB(20MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.291 V/m; Power Drift = 0.09 dB

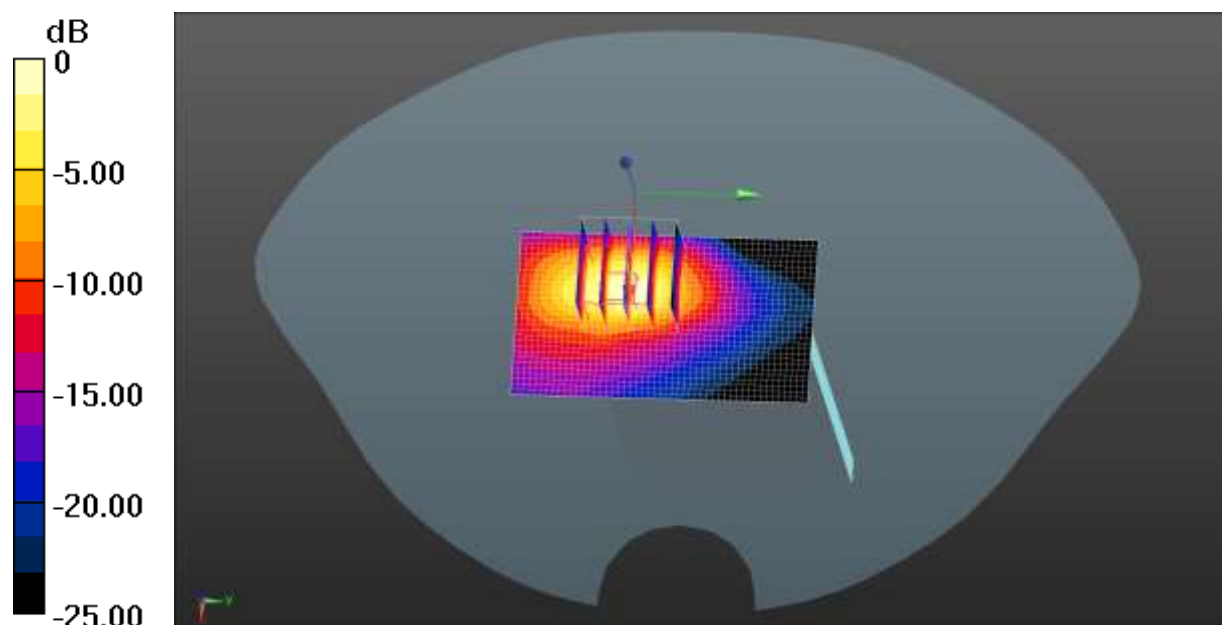
Peak SAR (extrapolated) = 0.975 W/kg

SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.187 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 0.678 W/kg



0 dB = 0.678 W/kg = -1.69 dBW/kg

Test Laboratory: JYTSZ

Date: 08.09.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 1.826$ S/m; $\epsilon_r = 37.371$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2593 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 41 1RB(20MHz) Body Top/Middle Channel/Area Scan (31x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.506 W/kg

LTE Band 41 1RB(20MHz) Body Top/Middle Channel/Zoom Scan

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

Reference Value = 6.556 V/m; Power Drift = 0.00 dB

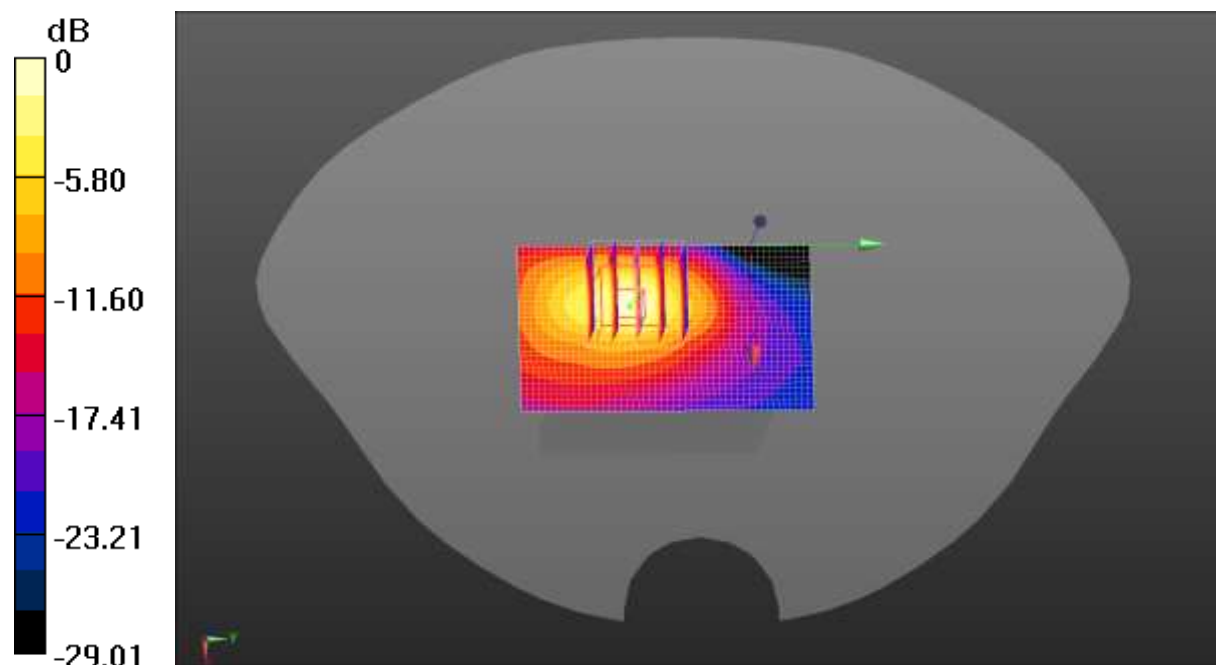
Peak SAR (extrapolated) = 0.734 W/kg

SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.142 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.541 W/kg = -2.67 dBW/kg

Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.325 \text{ S/m}$; $\epsilon_r = 38.247$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1745 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 66 1RB(20MHz) Body Top/Middle Channel/Area Scan (31x51x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.330 W/kg

LTE Band 66 1RB(20MHz) Body Top/Middle Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.77 V/m ; Power Drift = 0.15 dB

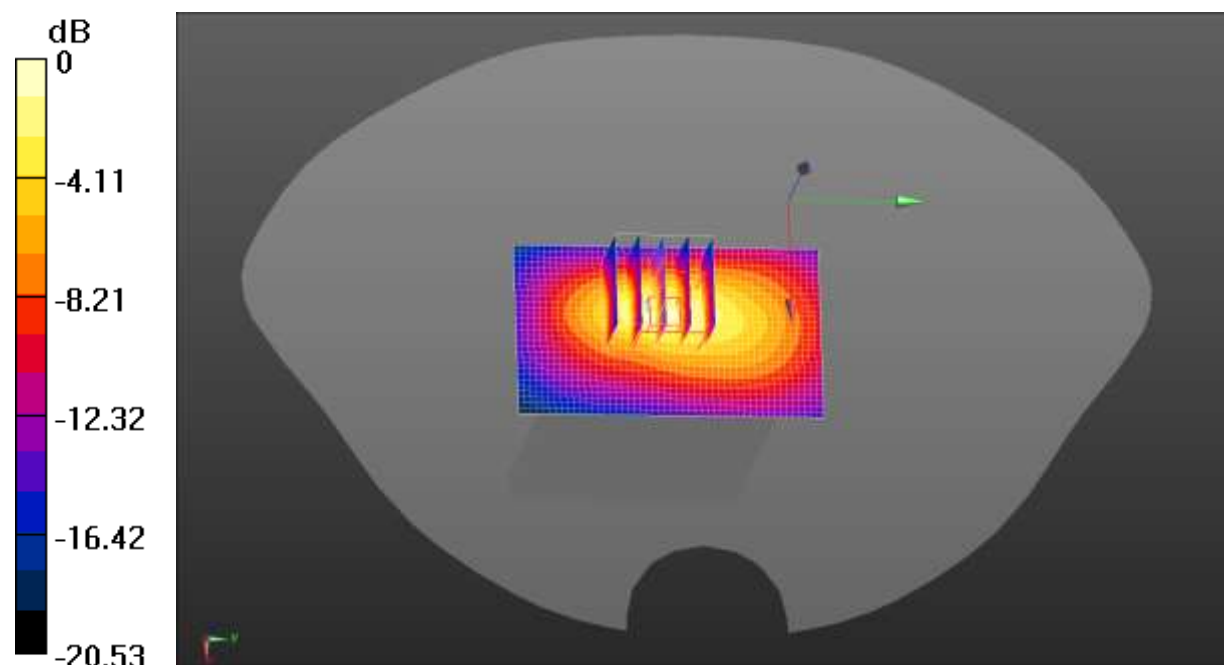
Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.281 W/kg ; SAR(10 g) = 0.138 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 0.397 W/kg



0 dB = 0.397 W/kg = -4.01 dBW/kg

Test Laboratory: JYTSZ

Date: 08.01.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 38.262$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.37, 8.37, 8.37) @ 1900 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n2 1RB(20MHz) Body Top/High Channel/Area Scan (31x51x1): Interpolatedgrid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.518 W/kg

NR n2 1RB(20MHz) Body Top/High Channel/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.85 V/m; Power Drift = -0.09 dB

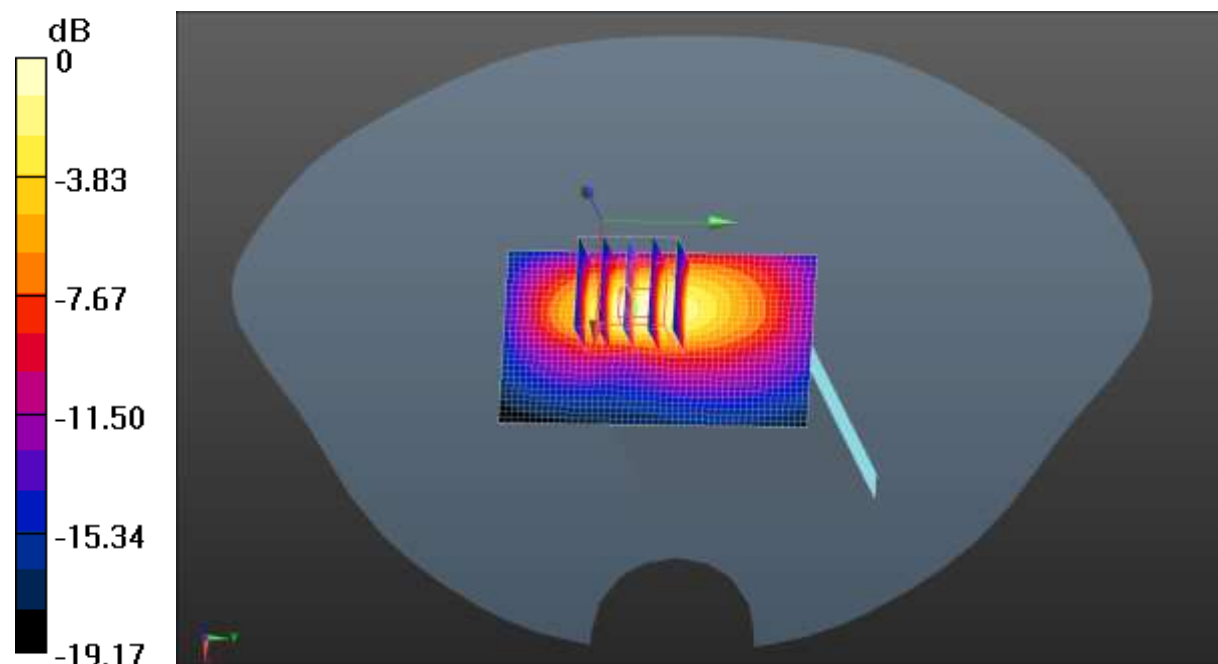
Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.156 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 0.507 W/kg



0 dB = 0.507 W/kg = -2.95 dBW/kg

Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 1730 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1730$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 38.247$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1730 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n66 1RB(20MHz) Body Top/Low Channel/Area Scan (31x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.454 W/kg

NR n66 1RB(20MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.18 V/m; Power Drift = 0.06 dB

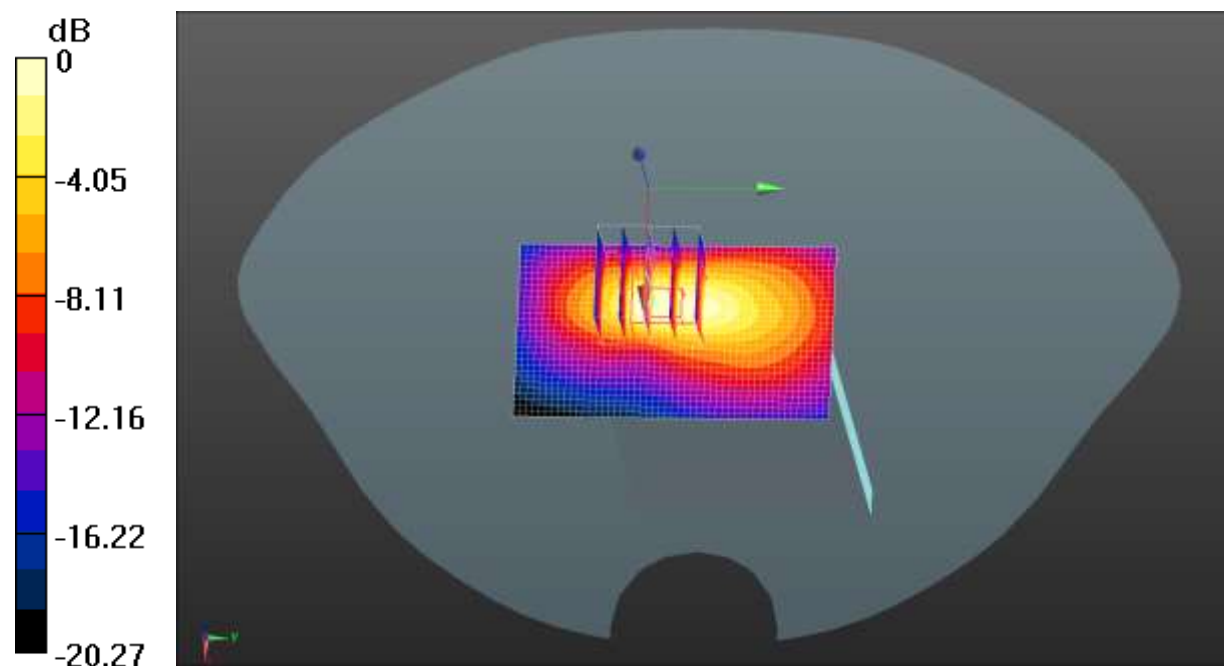
Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.152 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.437 W/kg



0 dB = 0.437 W/kg = -3.60 dBW/kg

Test Laboratory: JYTSZ

Date: 07.22.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

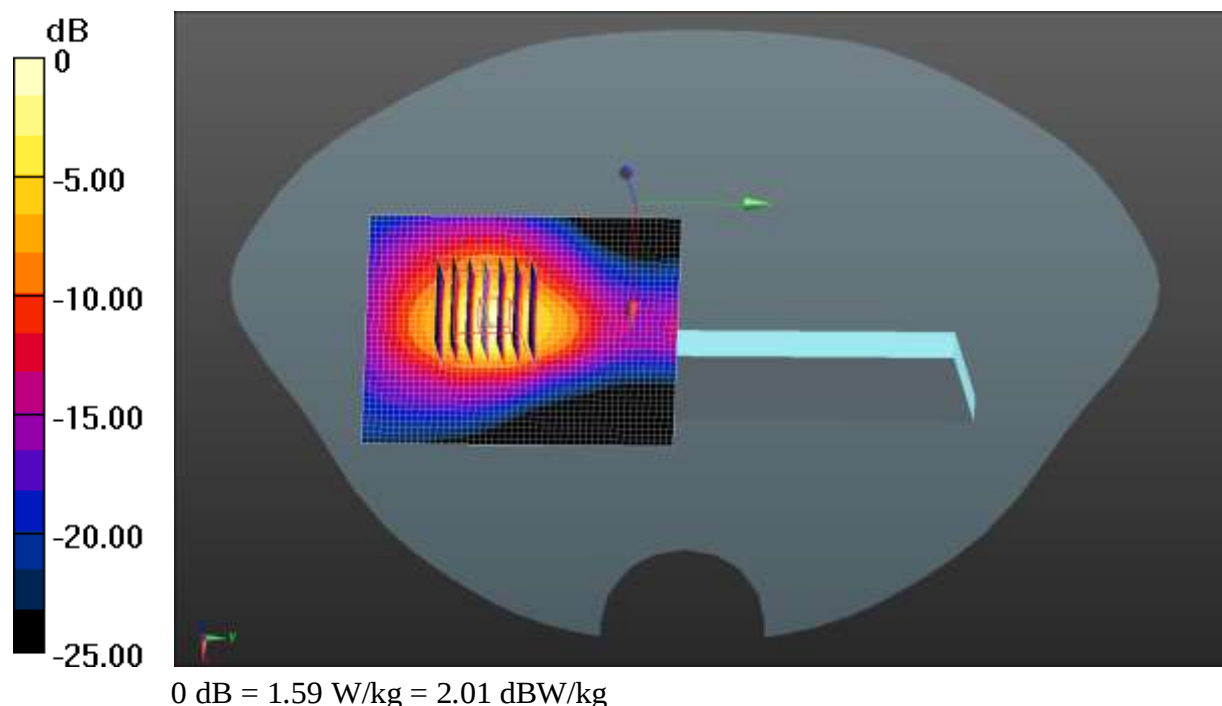
Communication System: UID 0, NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.901$ S/m; $\epsilon_r = 36.667$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3826; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 07.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77(3500) 50%RB(100MHz) Body Right/Middle Channel/Area Scan
(41x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 1.54 W/kg

NR n77(3500) 50%RB(100MHz) Body Right/Middle Channel/Zoom Scan
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
 Reference Value = 4.259 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 2.19 W/kg
SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.336 W/kg
 Smallest distance from peaks to all points 3 dB below = 8 mm
 Ratio of SAR at M2 to SAR at M1 = 40.4%
 Maximum value of SAR (measured) = 1.59 W/kg



Test Laboratory: JYTSZ

Date: 07.26.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, NR (0); Frequency: 3750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3750$ MHz; $\sigma = 3.142$ S/m; $\epsilon_r = 36.353$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3826; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 07.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77(3840) 50%RB(100MHz) Body Right/Low Channel/Area Scan**(41x51x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

NR n77(3840) 50%RB(100MHz) Body Right/Low Channel/Zoom Scan**(7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 1.369 V/m; Power Drift = 0.55 dB

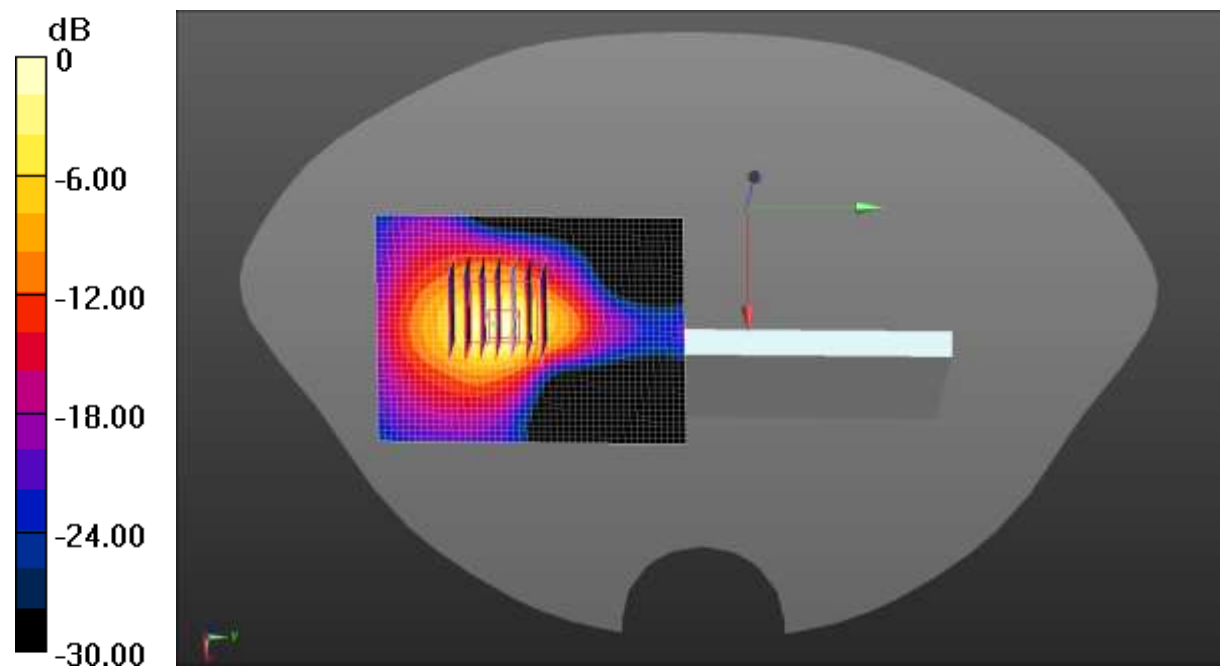
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.181 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 35.4%

Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.25 dBW/kg

Test Laboratory: JYTSZ

Date: 08.04.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.703 \text{ S/m}$; $\epsilon_r = 37.299$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.74, 7.74, 7.74) @ 2412 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2.4GWIFI Body Right/Low Channel/Area Scan (41x51x1): Interpolated grid:

$dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.132 W/kg

2.4GWIFI Body Right/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.356 V/m; Power Drift = 0.04 dB

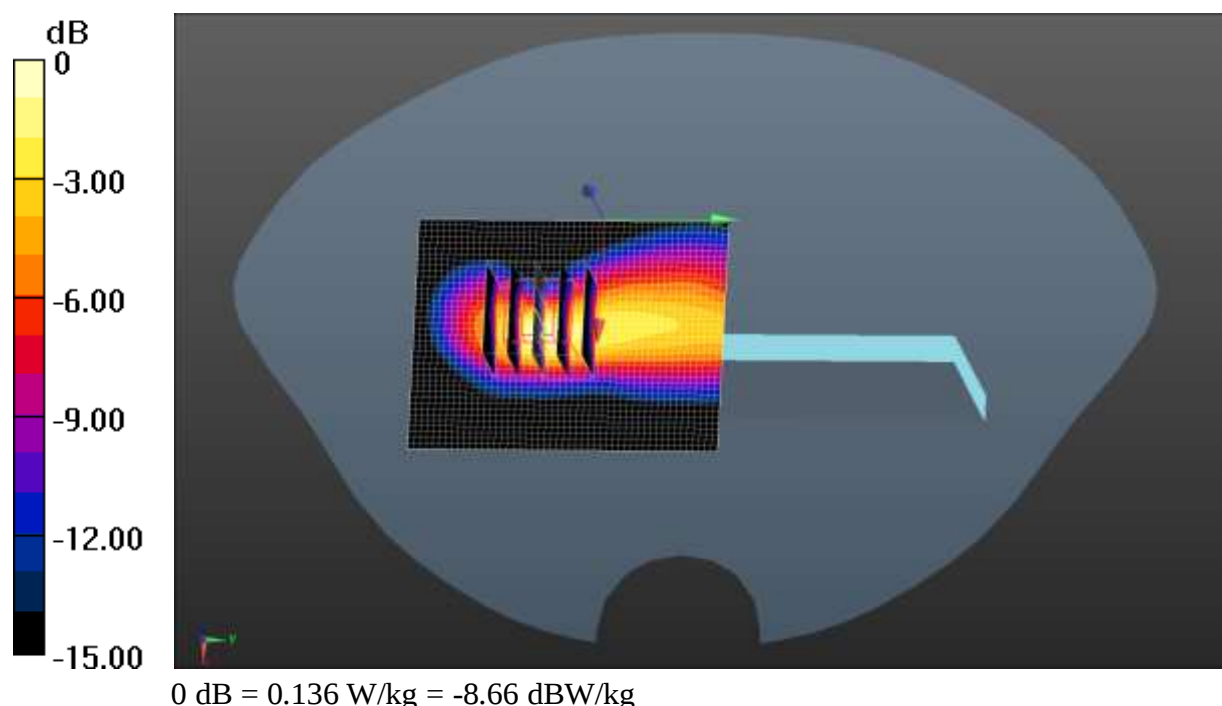
Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.035 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.136 W/kg



Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.327$ S/m; $\epsilon_r = 38.237$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1752.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1700 Body Front With Device Holder/High Channel/Area Scan

(51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.35 W/kg

WCDMA 1700 Body Front With Device Holder/High Channel/Zoom Scan

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

Reference Value = 0 V/m; Power Drift = 0.00 dB

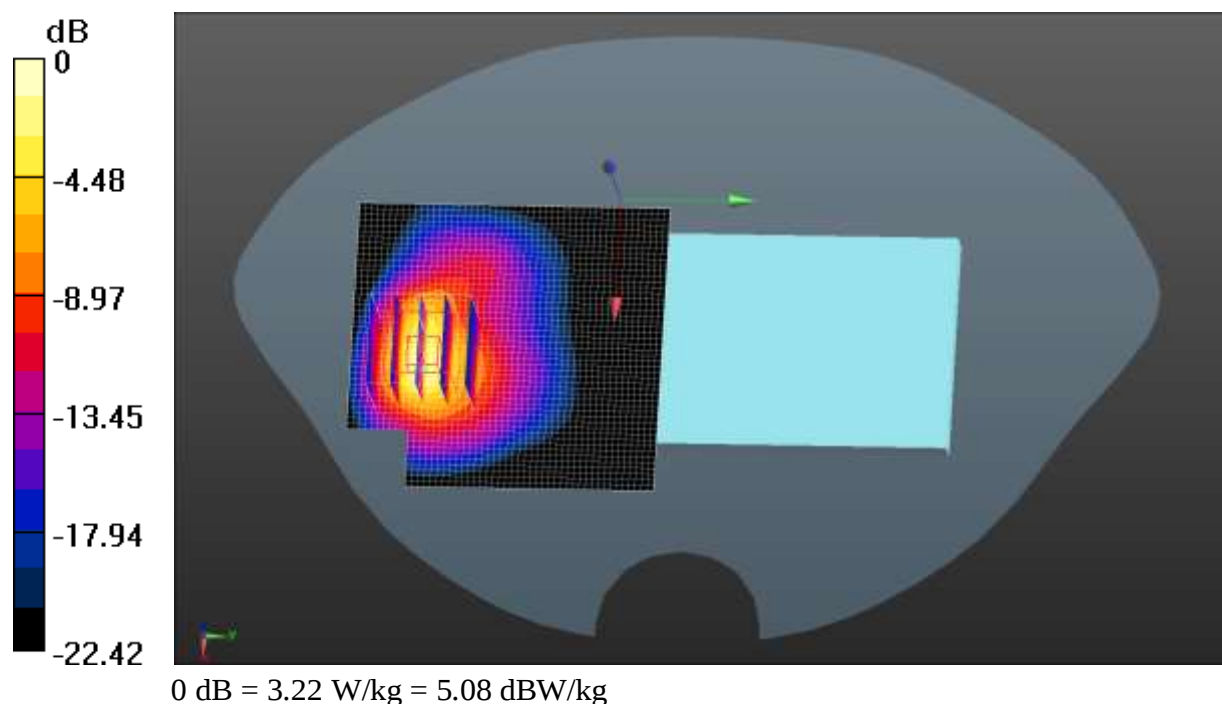
Peak SAR (extrapolated) = 3.94 W/kg

SAR(1 g) = 1.7 W/kg; SAR(10 g) = 0.726 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 41.8%

Maximum value of SAR (measured) = 3.22 W/kg



Test Laboratory: JYTSZ

Date: 07.29.2022

DUT: Mobile Phone; Type: X6815C; Serial: 2#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.327$ S/m; $\epsilon_r = 38.237$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.62, 8.62, 8.62) @ 1752.6 MHz; Calibrated: 12.28.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1700 Body Front Without Device Holder/High Channel/Area Scan

(51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.48 W/kg

WCDMA 1700 Body Front Without Device Holder/High Channel/Zoom Scan

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

Reference Value = 0 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 1.64 W/kg; SAR(10 g) = 0.684 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 39.3%

Maximum value of SAR (measured) = 3.22 W/kg

