

Report No.: SEWM2304000137RG09

Rev.: 01

Page: 1 of 140

FCC SAR TEST REPORT

Application No.: SEWM2304000137RG
Applicant: Xiaomi Communications Co., Ltd.
Manufacturer: Xiaomi Communications Co., Ltd.
Product Name: Mobile Phone
Model No.(EUT): 23076RN8DY
Trade Mark: Redmi
FCC ID: 2AFZZRN8DY
Standards: FCC 47CFR §2.1093
Date of Receipt: 2023-04-28
Date of Test: 2023-05-05 to 2023-06-08
Date of Issue: 2023-06-09
Test conclusion: **PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun
Panta Sun

Wireless Laboratory Manager



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory Manager

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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 2 of 140

REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2304000137RG09	01	Original	2023-06-09



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 3 of 140

TEST SUMMARY

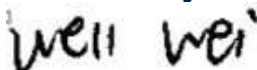
Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.63	0.56	0.56	/
GSM1900	1.09	0.65	0.93	/
WCDMA Band II	0.94	0.88	1.02	/
WCDMA Band IV	0.74	0.79	1.00	/
WCDMA Band V	0.93	0.52	0.52	/
LTE Band 2	0.75	0.68	1.07	/
LTE Band 4	0.64	0.80	0.97	/
LTE Band 5	0.85	0.48	0.48	/
LTE Band 7	0.68	0.71	0.72	/
LTE Band 12	0.44	0.25	0.25	/
LTE Band 13	0.59	0.32	0.32	/
LTE Band 17	0.44	0.25	0.25	/
LTE Band 26	0.85	0.48	0.48	/
LTE Band 38	0.61	0.50	0.50	/
LTE Band 41	0.61	0.50	0.50	/
LTE Band 66	0.64	0.80	0.97	/
NR Band n5	0.81	0.41	0.41	/
NR Band n7	0.57	0.47	0.47	/
NR Band n38	0.84	0.56	0.56	/
NR Band n41	0.84	0.56	0.56	/
NR Band n66	0.82	0.88	1.03	/
NR Band n77	1.09	0.49	0.49	/
NR Band n78	1.09	0.49	0.49	/
Wi-Fi (2.4GHz)	0.42	0.40	0.40	/
Wi-Fi (5GHz)	0.50	0.47	0.47	0.77
BT	0.20	0.07	0.07	/
NFC	/	/	/	<0.10
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.59	1.57	1.58	0.77
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note:

1) According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 4 (Frequency range:1710 - 1755 MHz)/LTE Band 5 (Frequency range:824 - 849 MHz)/ LTE Band 17 (Frequency range:704-716 MHz)/LTE Band 38 (Frequency range:2570 - 2620 MHz)/ n38 (Frequency range:2570 - 2620 MHz)/n78 (Frequency range:3300 - 3800 MHz) is respectively covered by LTE Band 66 (Frequency range:1710 - 1780 MHz)/LTE Band 26 (Frequency range:814 - 849 MHz)/ LTE Band 12 (Frequency range:699-716 MHz)/LTE Band41 (Frequency range:2496 - 2690 MHz)/n41 (Frequency range:2496 - 2690 MHz)/n78 (Frequency range:3300 - 3800 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

2) For LTE band 5/12/13/26 and n5/n41/n77 that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Reviewed by



Well Wei

Prepared by



Nick Hu



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CONTENTS

1	GENERAL INFORMATION	7
1.1	DETAILS OF CLIENT	7
1.2	TEST LOCATION	7
1.3	TEST FACILITY	8
1.4	GENERAL DESCRIPTION OF EUT	9
1.4.1	DUT Antenna Locations (Back View)	11
1.4.2	LTE CA additional specification	12
1.4.3	Power reduction specification	14
1.5	TEST SPECIFICATION	15
1.6	RF EXPOSURE LIMITS	16
2	LABORATORY ENVIRONMENT	17
3	SAR MEASUREMENTS SYSTEM CONFIGURATION	18
3.1	THE SAR MEASUREMENT SYSTEM	18
3.2	ISOTROPIC E-FIELD PROBE EX3DV4	19
3.3	DATA ACQUISITION ELECTRONICS (DAE)	20
3.4	SAM TWIN PHANTOM	20
3.5	ELI PHANTOM	21
3.6	DEVICE HOLDER FOR TRANSMITTERS	22
3.7	MEASUREMENT PROCEDURE	23
3.7.1	Scanning procedure	23
3.7.2	Data Storage	25
3.7.3	Data Evaluation by SEMCAD	25
4	SAR MEASUREMENT VARIABILITY AND UNCERTAINTY	27
4.1	SAR MEASUREMENT VARIABILITY	27
4.2	SAR MEASUREMENT UNCERTAINTY	27
5	DESCRIPTION OF TEST POSITION	28
5.1	HEAD EXPOSURE CONDITION	28
5.1.1	SAM Phantom Shape	28
5.1.2	EUT constructions	29
5.1.3	Definition of the "cheek" position	29
5.1.4	Definition of the "tilted" position	30
5.2	BODY EXPOSURE CONDITION	31
5.2.1	Body-worn accessory exposure conditions	31
5.2.2	Wireless Router exposure conditions	32
5.3	EXTREMITY EXPOSURE CONDITIONS	32
5.4	PROXIMITY SENSOR TRIGGERING TEST	33
6	SAR SYSTEM VERIFICATION PROCEDURE	47
6.1	TISSUE SIMULATE LIQUID	47
6.1.1	Recipes for Tissue Simulate Liquid	47
6.1.2	Measurement for Tissue Simulate Liquid	48
6.2	SAR SYSTEM CHECK	49



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6.2.1	Justification for Extended SAR Dipole Calibrations	50
6.2.2	Summary System Check Result(s)	51
6.2.3	Detailed System Check Results	51
7	TEST CONFIGURATION	52
7.1	3G SAR TEST REDUCTION PROCEDURE	52
7.2	OPERATION CONFIGURATIONS	52
7.2.1	GSM Test Configuration	52
7.2.2	WCDMA Test Configuration	53
7.2.3	WiFi Test Configuration	59
7.2.4	LTE Test Configuration	64
7.2.5	NR Band Test Configuration	67
8	TEST RESULT	71
8.1	MEASUREMENT OF RF CONDUCTED POWER	71
8.2	MEASUREMENT OF SAR DATA	73
8.2.1	SAR Result of GSM850	74
8.2.2	SAR Result of GSM1900	75
8.2.3	SAR Result of WCDMA Band II	77
8.2.4	SAR Result of WCDMA Band IV	79
8.2.5	SAR Result of WCDMA Band V	81
8.2.6	SAR Result of LTE Band 2	83
8.2.7	SAR Result of LTE Band 7	86
8.2.8	SAR Result of LTE Band 12	89
8.2.9	SAR Result of LTE Band 13	91
8.2.10	SAR Result of LTE Band 26	93
8.2.11	SAR Result of LTE Band 41	95
8.2.1	SAR Result of LTE Band 66	98
8.2.2	SAR Result of 5G NR n5	101
8.2.1	SAR Result of 5G NR n7	103
8.2.2	SAR Result of 5G NR n41	106
8.2.3	SAR Result of 5G NR n66	108
8.2.4	SAR Result of 5G NR n77	111
8.2.5	SAR Result of WIFI 2.4G	116
8.2.1	SAR Result of WIFI 5G	117
8.2.2	SAR Result of BT	119
8.2.1	SAR Result of NFC	120
8.3	MULTIPLE TRANSMITTER EVALUATION	121
8.3.1	Simultaneous SAR SAR test evaluation	121
8.3.2	Simultaneous Transmission SAR Summation Scenario	122
9	EQUIPMENT LIST	139
10	CALIBRATION CERTIFICATE	140
11	PHOTOGRAPHS	140
	APPENDIX A: DETAILED SYSTEM CHECK RESULTS	140
	APPENDIX B: DETAILED TEST RESULTS	140



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 6 of 140

APPENDIX C: CALIBRATION CERTIFICATE	140
APPENDIX D: PHOTOGRAPHS	140
APPENDIX E: CONDUCTED RF OUTPUT POWER.....	140



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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 7 of 140

1 General Information

1.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Alan-Zhang, Leon-Liu



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Rev.: 01
Page: 8 of 140

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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Designation Number: CN1312.

Test Firm Registration Number: 717327



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 9 of 140

1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	23076RN8DY		
FCC ID:	2AFZZRN8DY		
Trade Mark:	Redmi		
Product Phase:	Identical Prototype		
IMEI:	1# 866672060034781/866672060034799 2# 866672060034526/866672060034534 3# 866672060039525/866672060039533 4# 866672060039723/866672060039731		
Hardware Version:	P1.1		
Software Version:	MIUI14		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK; LTE: QPSK,16QAM,64QAM 5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM, OFDMA; BT: GFSK, $\pi/4$ DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category	6
DC-HSDPA UE Category:	24		
Power Class	4,tested with power level 5(GSM850)		
	1,tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control Max Power(LTE Band)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850 ~1910	1930 ~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869-894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777 - 787	746 - 756
	LTE Band 17	704~716	734~746
	LTE Band 26	814~849	859~894
	LTE Band 66	1710 - 1780	2110 - 2200
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 10 of 140

	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n66	1710 - 1780	2110 - 2200
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78	3450~3550	3450~3550
		3700~3800	3700~3800
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2402~2462	2402~2462
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
RF Cable:	☒ Provided by the applicant ☐ Provided by the laboratory		
NFC	Wireless Technology and Frequency Range	13.56MHz	
	mode	ASK	
1# Battery Information:	Model:	BM5R	
	Normal Voltage:	+3.87V	
	Typical capacity:	5000mAh	
	Manufacturer:	SUCD	
2# Battery Information:	Model:	BM5R	
	Normal Voltage:	+3.87V	
	Typical capacity:	5000mAh	
	Manufacturer:	NVT	
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			



1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations (Back View) can refer to Appendix D.

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 175 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥ 160 mm, so it is a phablet.
- 2) Ant 0 is sensor pad 1
Ant 4 is sensor pad 2
Ant 2 is sensor pad 3

According to the distance between 5G NR/LTE/WCDMA/GSM&WIFI&BT antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Top	Bottom
Ant 0	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant 3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 5	Hotspot/Product specific 10g SAR	Yes	Yes	No	No	Yes	No

Table 1: EUT Sides for SAR Testing

Note:

- 1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



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1.4.2 LTE CA additional specification

The device supports downlink and intra-band contiguous uplink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- Intra-band carrier aggregation requirements for uplink.
- Intra-band and inter-band carrier aggregation requirements for downlink.

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Section 8 of this report per 3GPP TS 36.521-1 V14.4.0. The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

SAR test procedure for intra-band contiguous UL LTE CA is as below:

1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2) SAR for UL CA is required in each exposure condition and frequency band combination

3) For this device, as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

5) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

Intra-band contiguous CA operating bands:

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band		Downlink (DL) operating band		Duplex Mode
		BS receive / UE transmit		BS transmit / UE receive		
		$F_{UL\ low} - F_{UL\ high}$		$F_{DL\ low} - F_{DL\ high}$		
CA 7	7	2500 MHz	– 2570 MHz	2620 MHz	– 2690 MHz	FDD
CA 38	38	2570 MHz	– 2620 MHz	2570 MHz	– 2620 MHz	TDD



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 13 of 140

- c) The device supports Inter-band uplink LTE CA for CA_4A-7A with two component carriers in the uplink.
1. For Inter-band uplink LTE CA SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink LTE CA SAR from standalone SAR test results of each LTE component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each Inter-band uplink LTE CA component band as the inter-band Uplink LTE CA SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report. Since the maximum output power of the LTE Inter-band uplink band is $\leq$ the LTE Band, the SAR data of the LTE Band is used instead of the SAR data of the LTE Inter-band uplink band.

2CC	DL 4x4 MIMO	3CC
CA_12A-66A	-	CA_2A-4A-5A
CA_2A-4A	-	CA_2A-7A-66A
CA_2A-5A	-	CA_2A-7A-7A
CA_2A-7A	7A	CA_2A-7C
CA_2C	-	CA_41A-41A-41A
CA_38C	38A	CA_41D
CA_41A-41A	41A	CA_4A-7C
CA_41C	41A	CA_5A-7C
CA_4A-5A	4A	CA_7A-66A-66A
CA_4A-7A	4A,7A	CA_5A-7A-7A
CA_5A-7A	7A	CA_2A-4A-7A
CA_66A-66A	-	CA_2A-5A-66A
CA_7A-7A	7A	CA_2A-5A-7A
CA_7C	7A	CA_5A-66A-66A
CA_66C	-	
CA_66B	-	
CA_2A-2A	-	
CA_2A-66A	-	
CA_4A-4A	4A	
CA_5A-66A	-	
CA_7A-26A	7A	
CA_7A-66A	7A	
CA_26A-38A	38A	
CA_26A-41A	41A	
CA_2A-26A	-	



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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 14 of 140

1.4.3 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

- 1) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction
- 2) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.
- 3) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

The detailed power reduction information can be referred to Appendix E.



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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 15 of 140

1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

* 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

** The Spatial Average value of the SAR averaged over the whole body.

*** 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.

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

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.)



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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 17 of 140

2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ambient noise is checked and found very low and in compliance with requirement of standards.	
Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

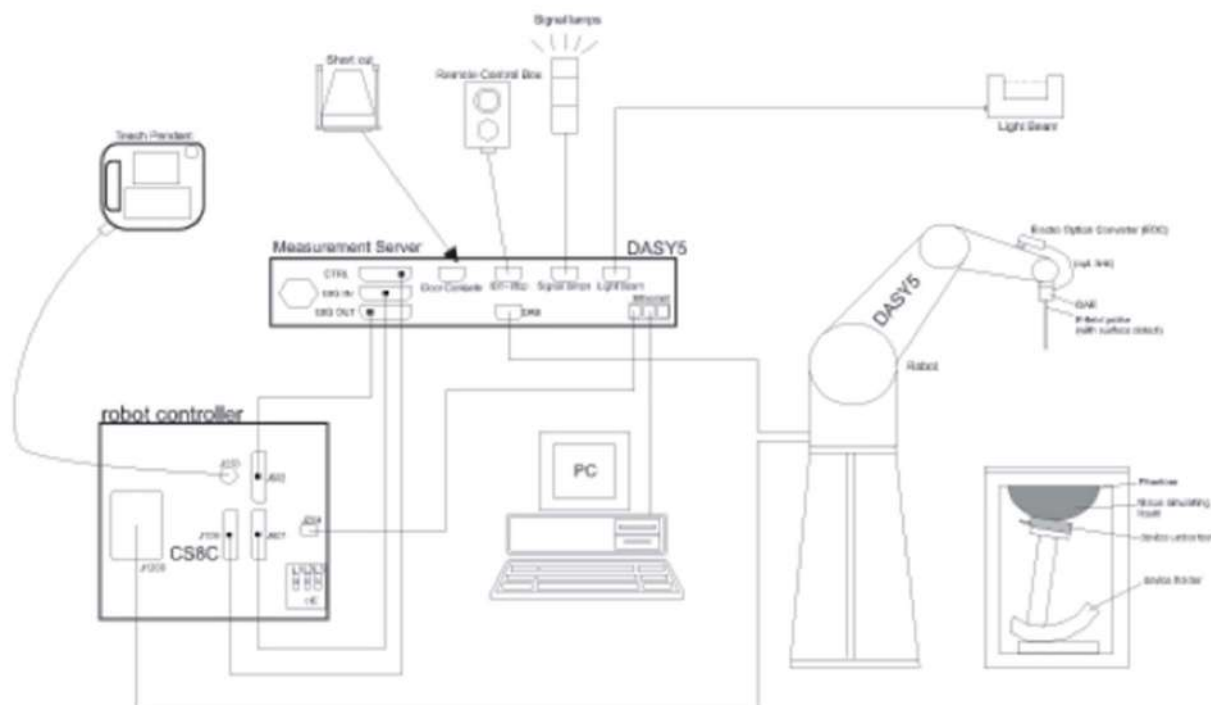
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration



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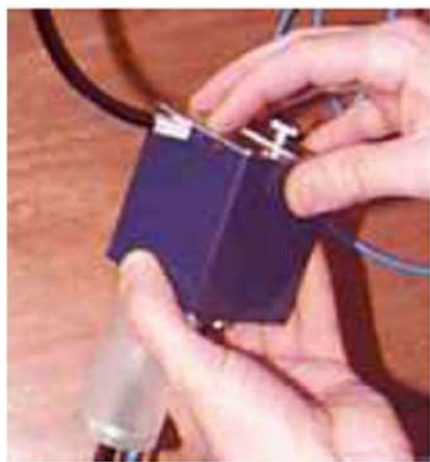
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	< 5µV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	
Wooden Support	SPEAG standard phantom table	

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	
Wooden Support	SPEAG standard phantom table	

The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI is fully compatible with the IEC/IEEE 62209-1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all of SPEAG's dosimetric probes and dipoles.

ELI V5.0 and higher has the same shell geometry and is manufactured from the same material as ELI V4.0 but has a reinforced top structure.



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- 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 centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss 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.



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm ($f \leq 2\text{GHz}$), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points ($f \leq 2\text{GHz}$), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
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: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
		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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n-1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5 \%$



3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software 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	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- 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 multimeter 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:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

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)
 dcp i = diode compression point (DASY parameter)

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

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f$$

With V_i = compensated signal of channel i ($i = x, y, z$)

Normi = sensor sensitivity of channel i ($i = x, y, z$)
[mV/(V/m)²] for E-field Probes

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):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

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

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

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]

ϵ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
 - 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
 - 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 - 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, 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.



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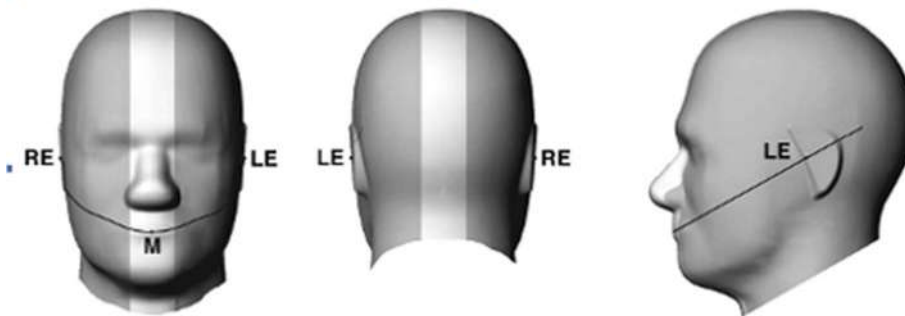
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5 Description of Test Position

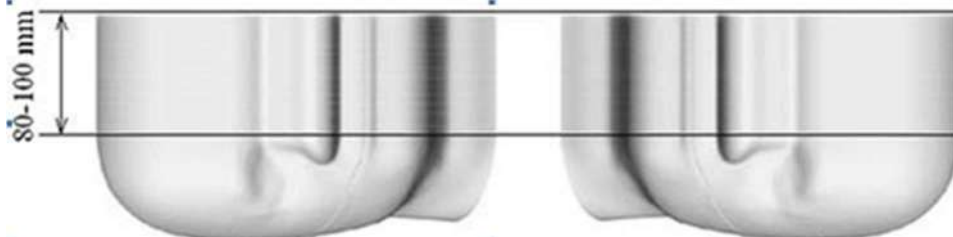
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

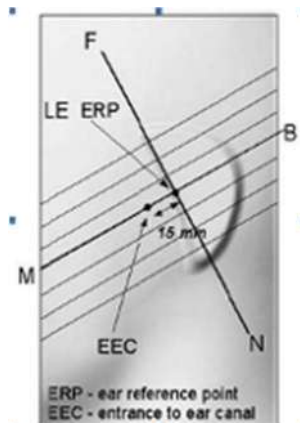


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

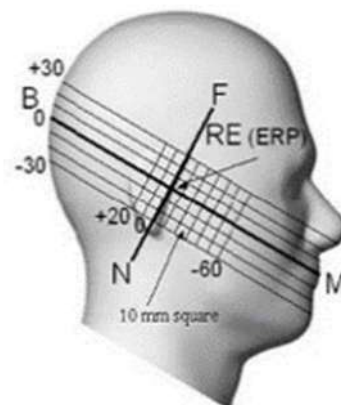
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



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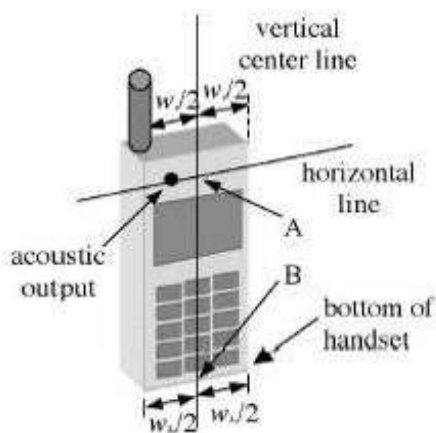
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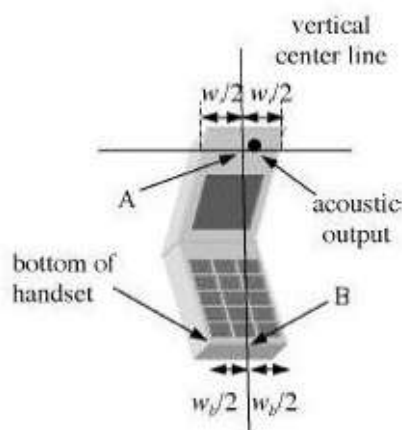
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5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-“fixed case”



F-8. Handset vertical and horizontal reference lines-“clam-shell case”

5.1.3 Definition of the “cheek” position

- Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



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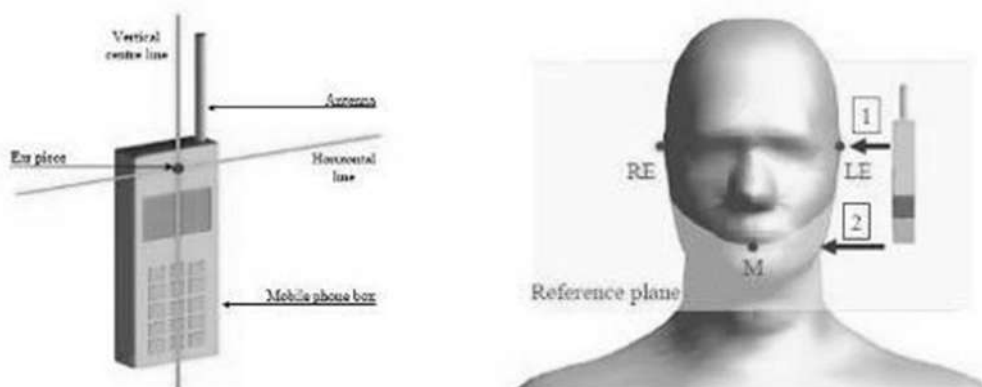
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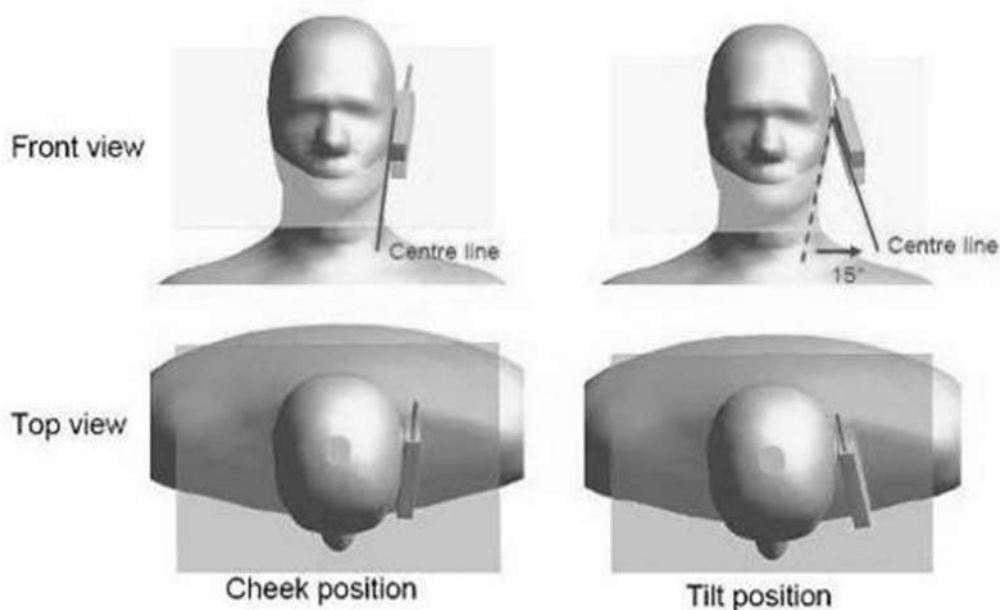
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5.1.4 Definition of the “tilted” position

- Position the device in the “cheek” position described above;
- While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. “Cheek” and “tilt” positions of the mobile phone on the left side

5.2 Body Exposure Condition

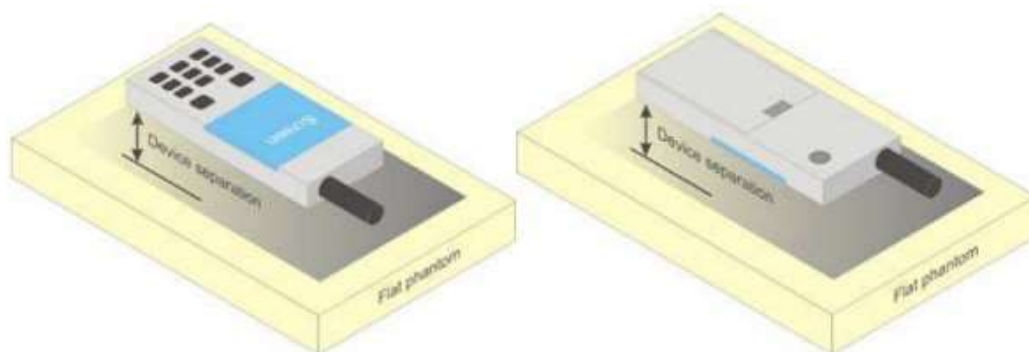
5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 32 of 140

5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC 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 containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474 D04, for smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet". The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, hotspot power levels, and product specific 10g SAR power levels are the same, no frequency bands need to test with 0mm for the Product Specific 10-g SAR are not required.



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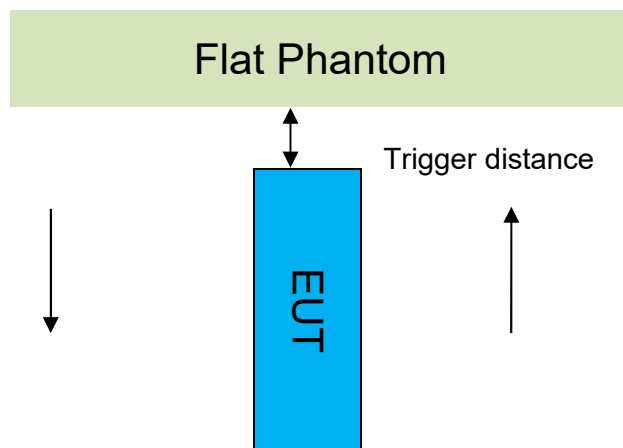
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5.4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WWAN antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)				
Antenna	Ant0/3/4/5	Ant0/3/4/5	Ant0	Ant3/4/5
Position	Front	Back	Bottom Side	Top Side
Minimum	13	18	16	20
Required SAR Test	12	17	15	19

Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



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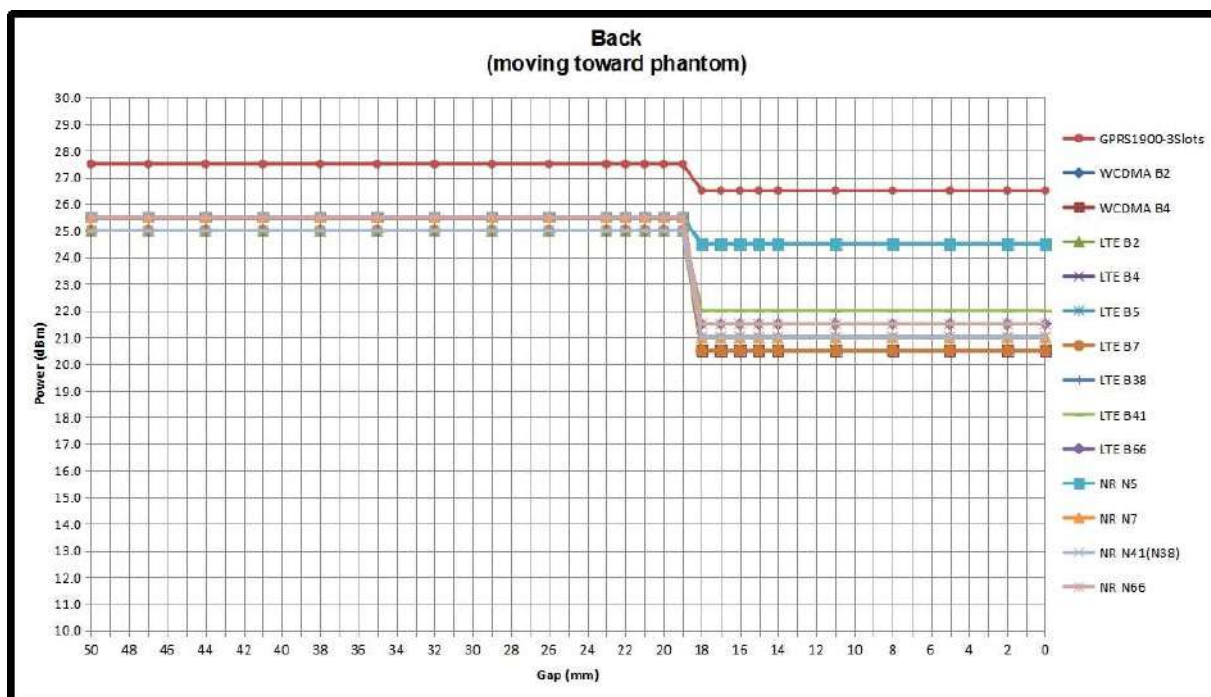
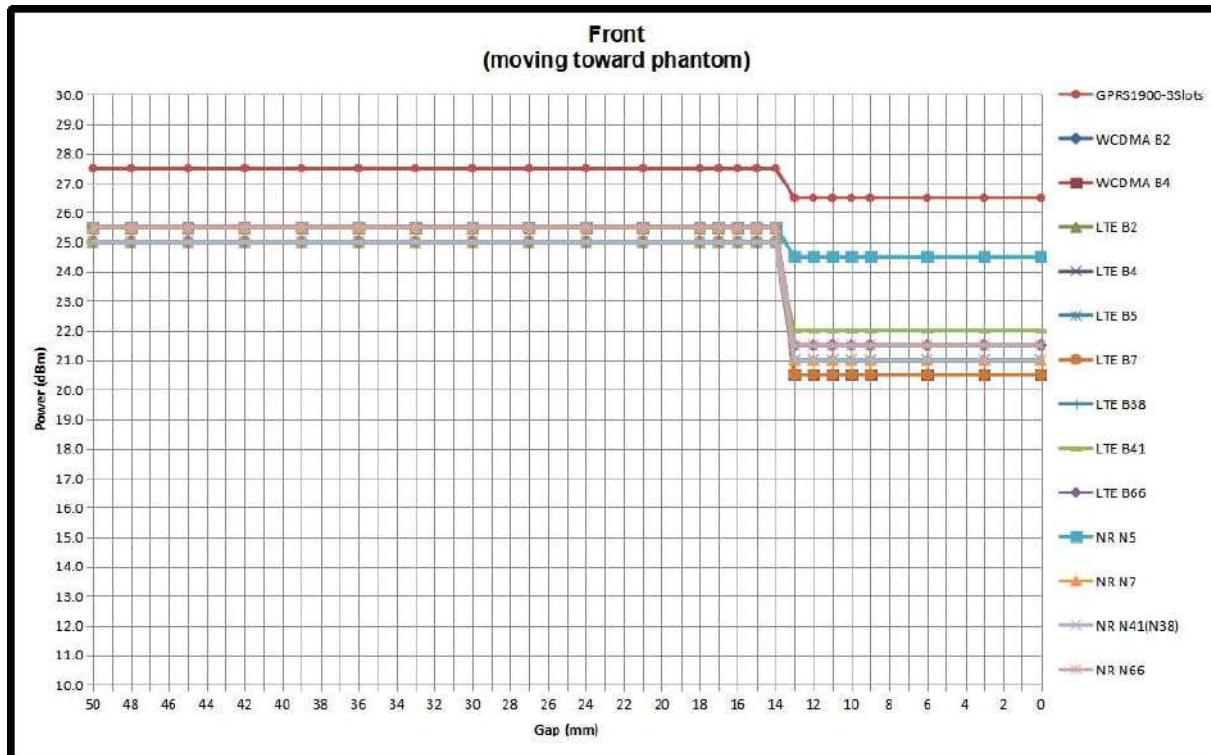
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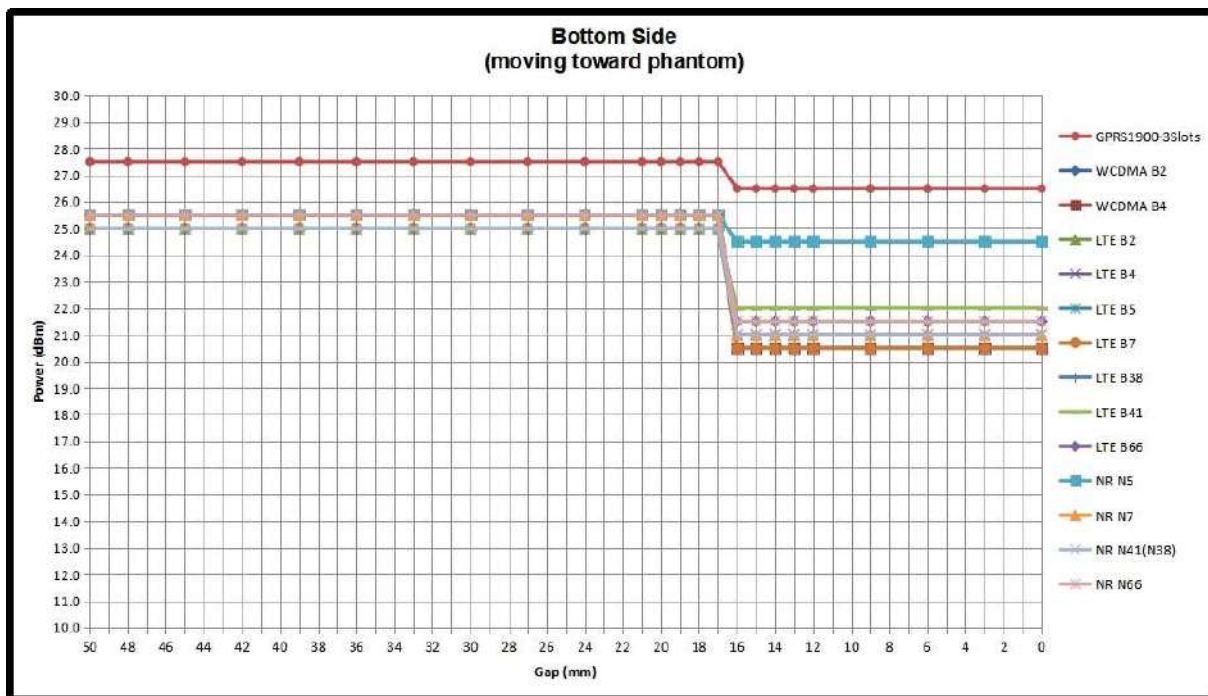
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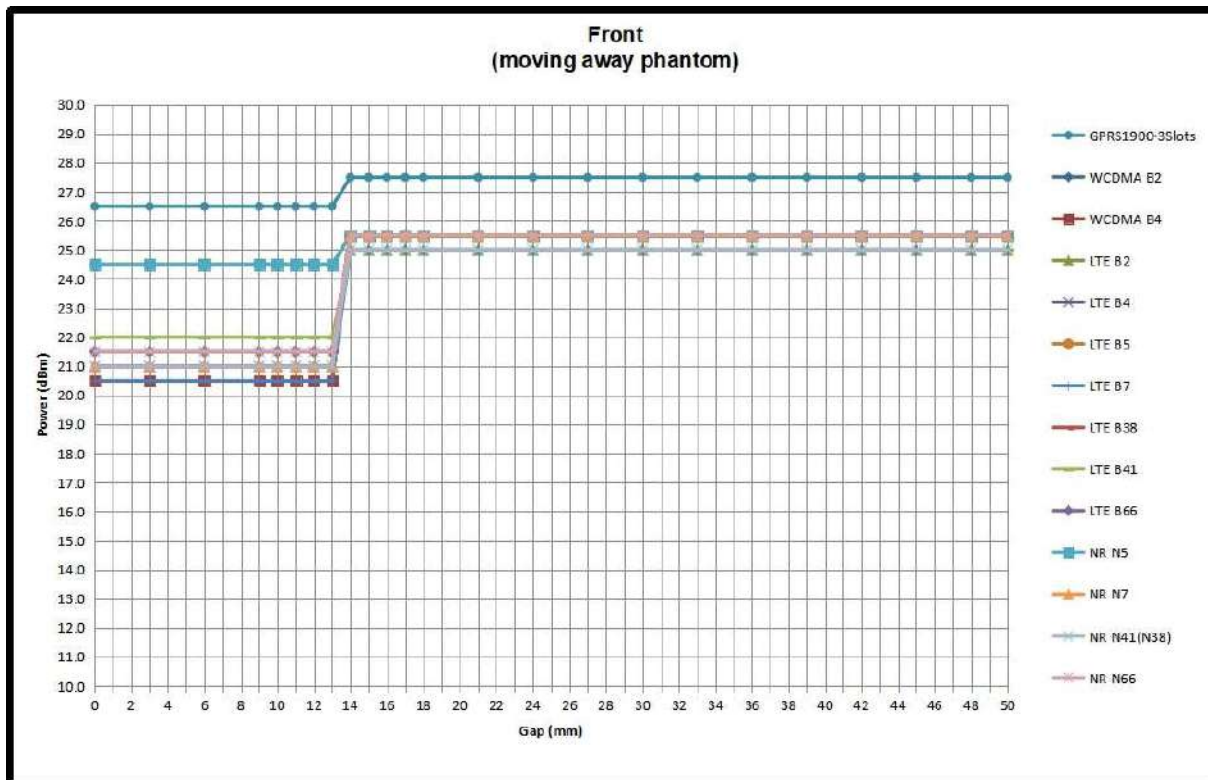
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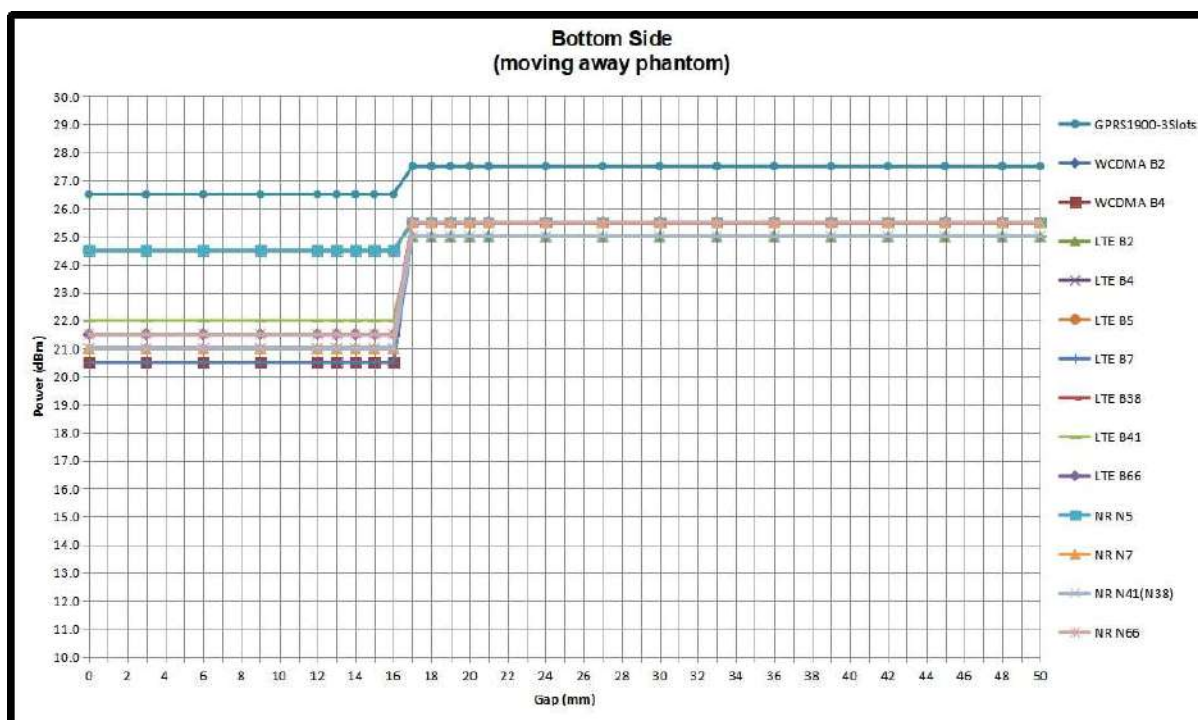
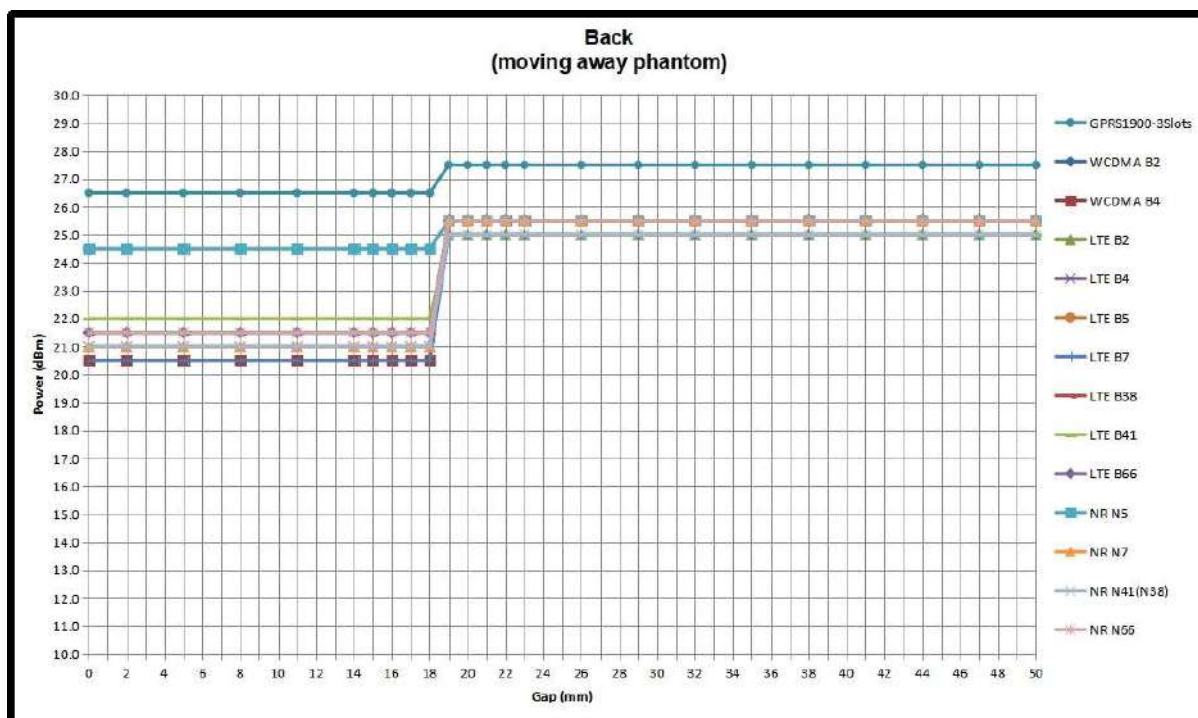
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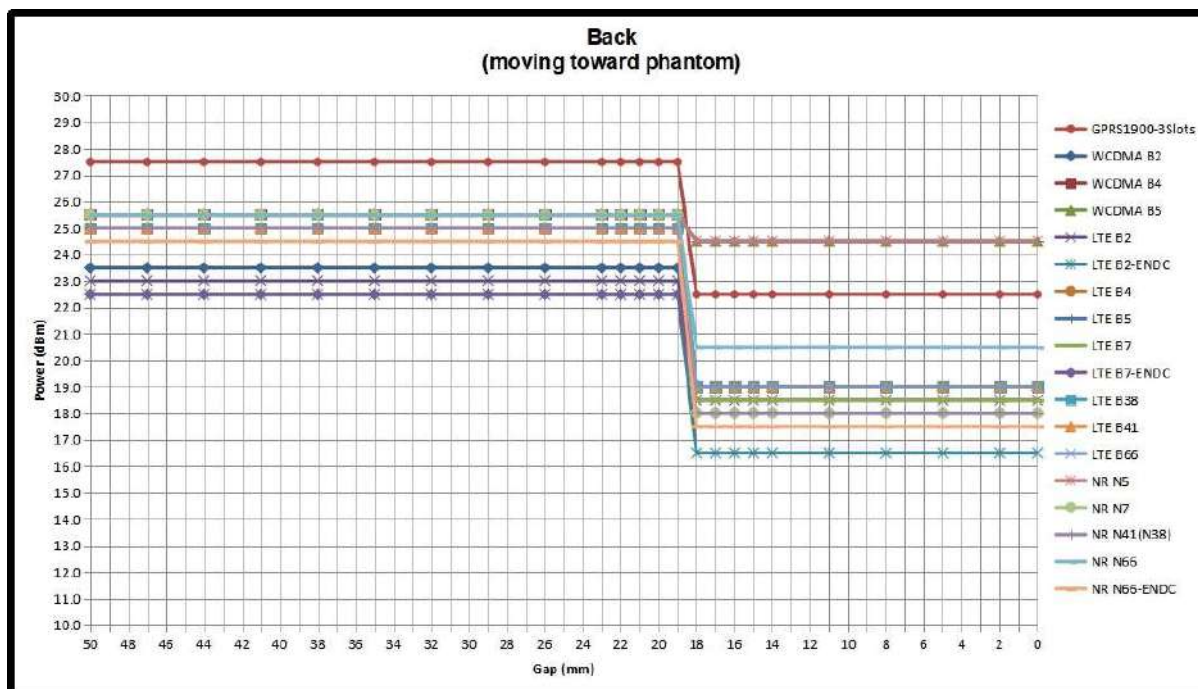
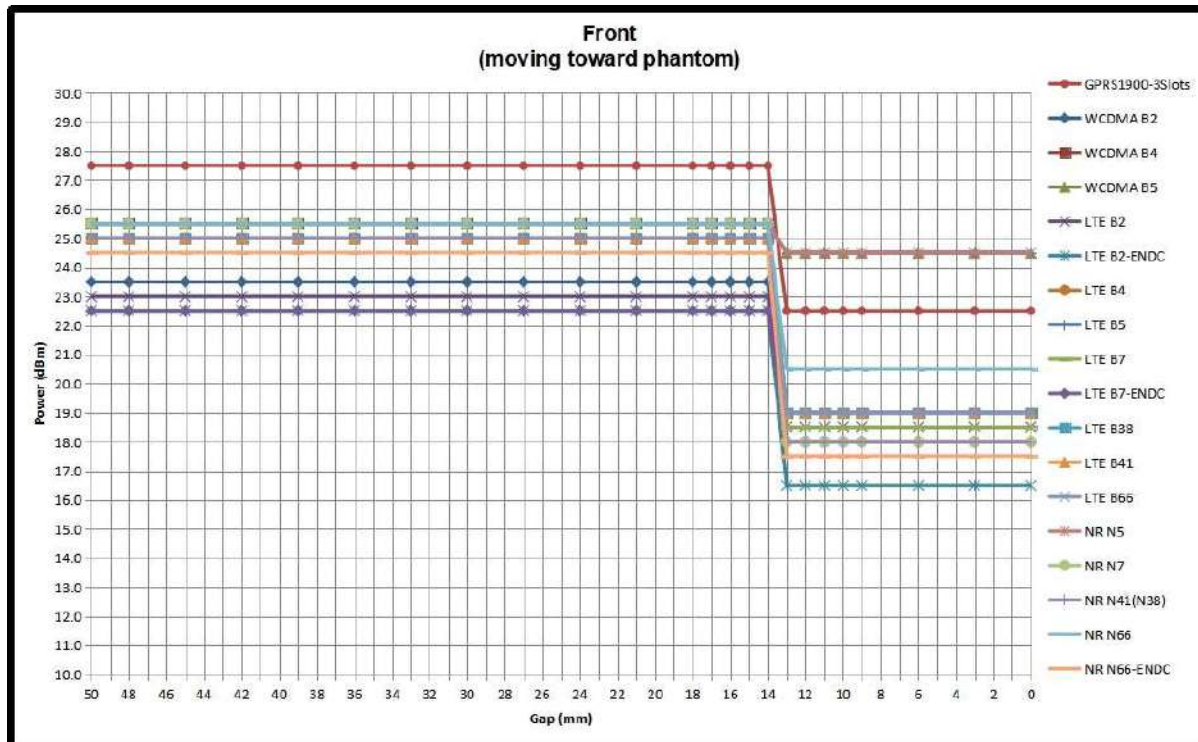
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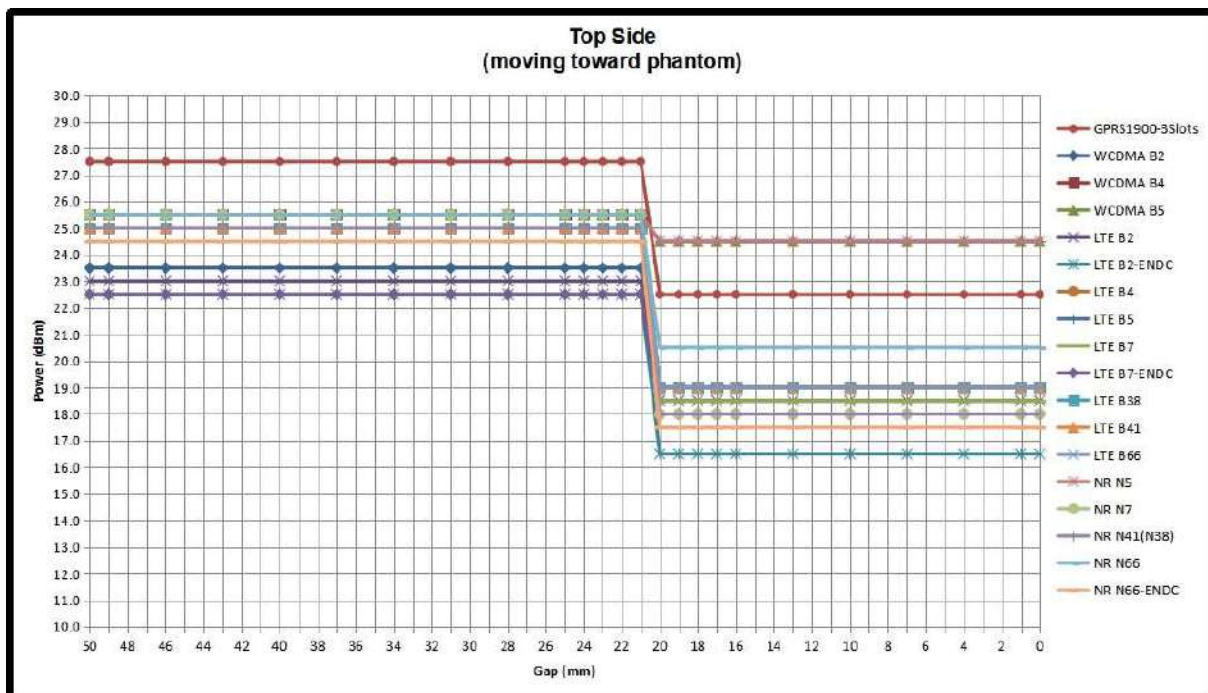


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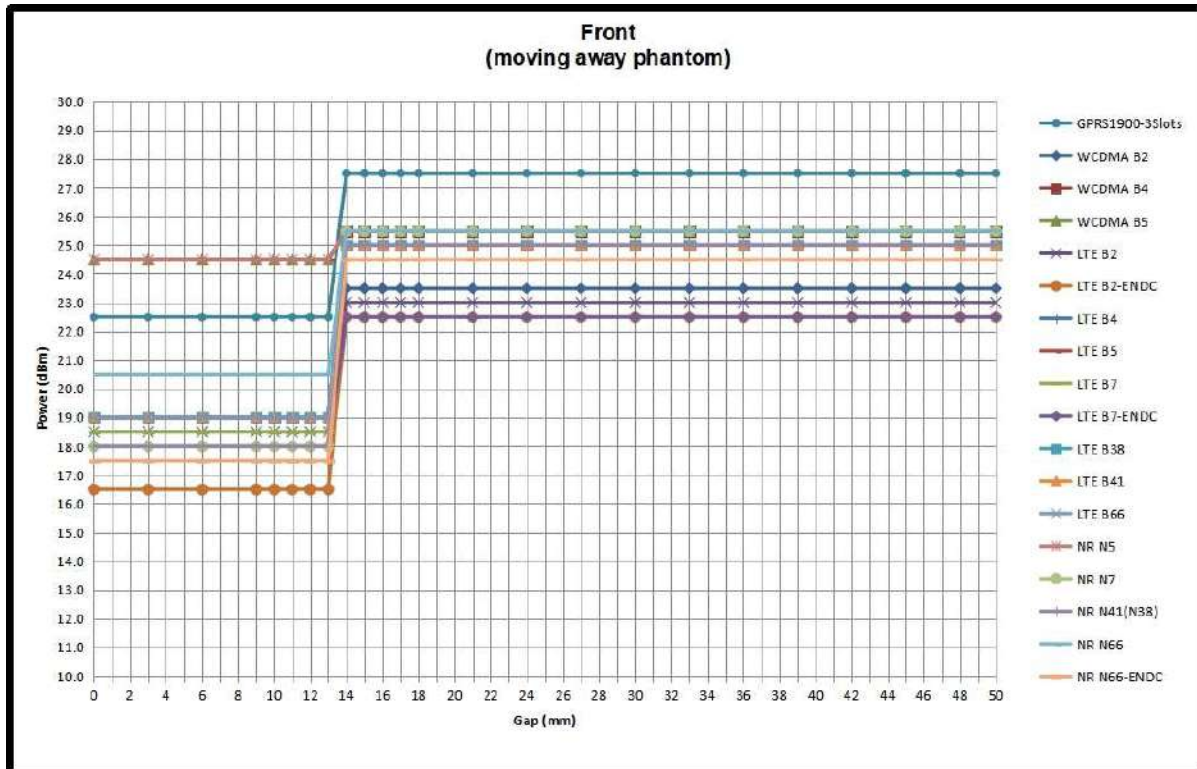
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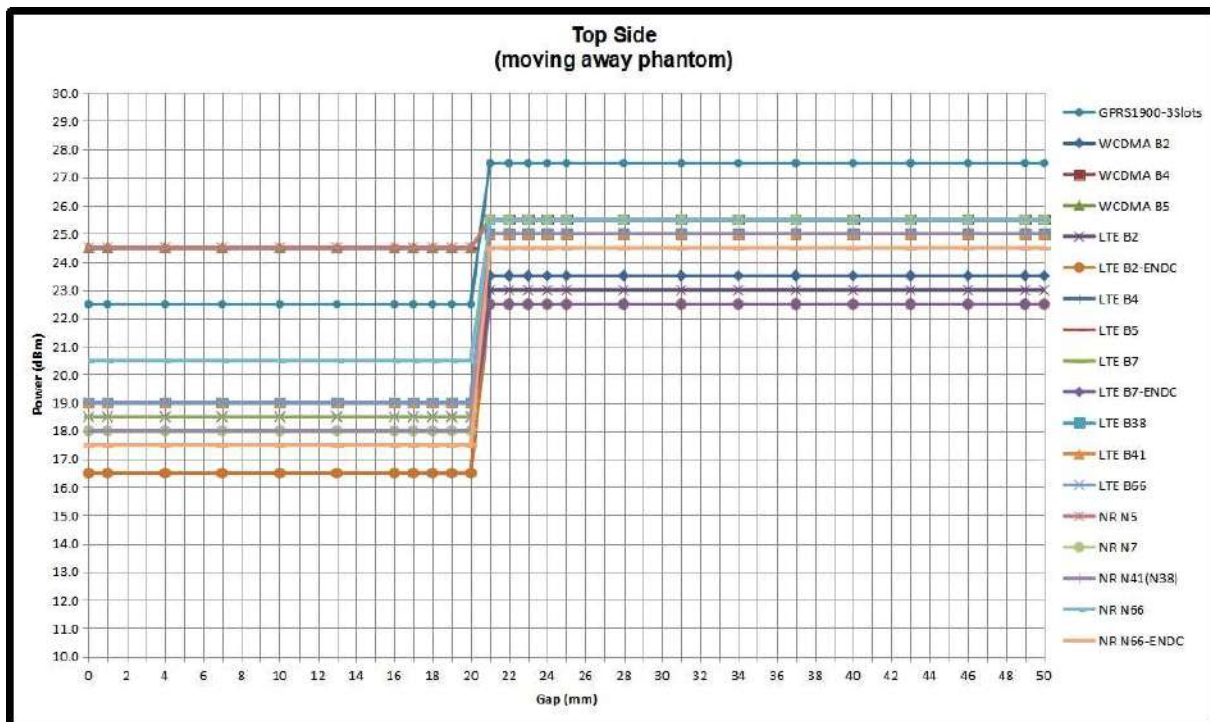
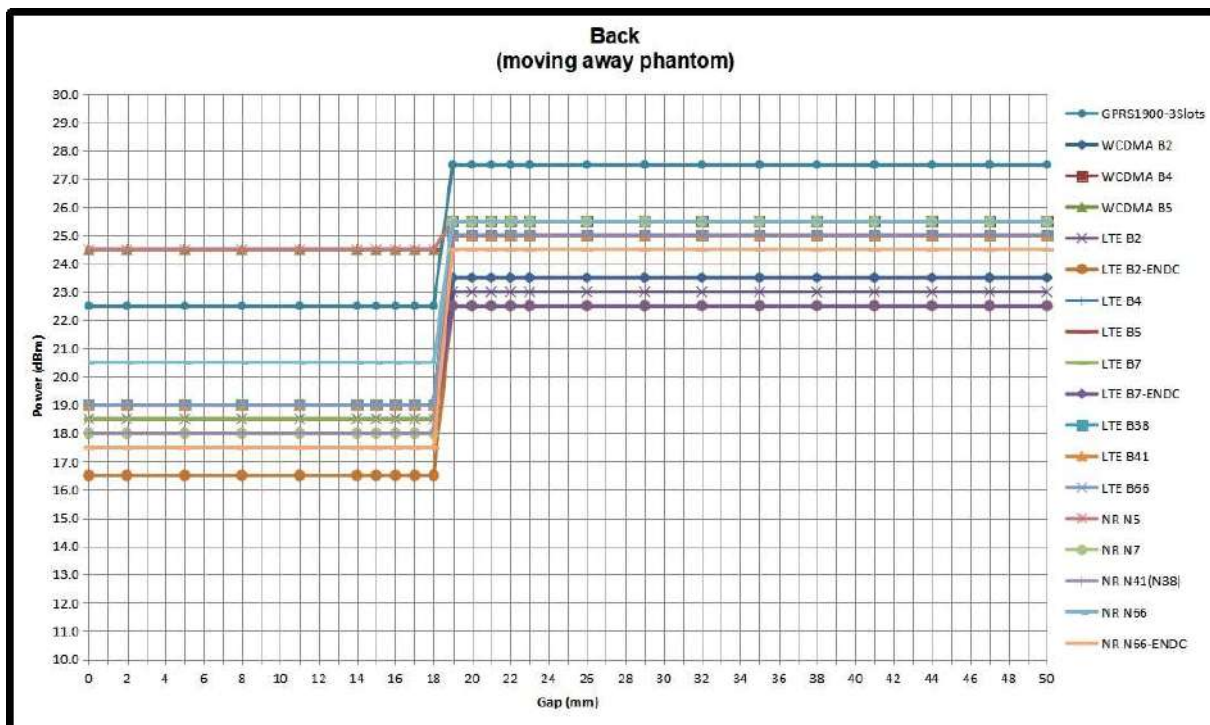


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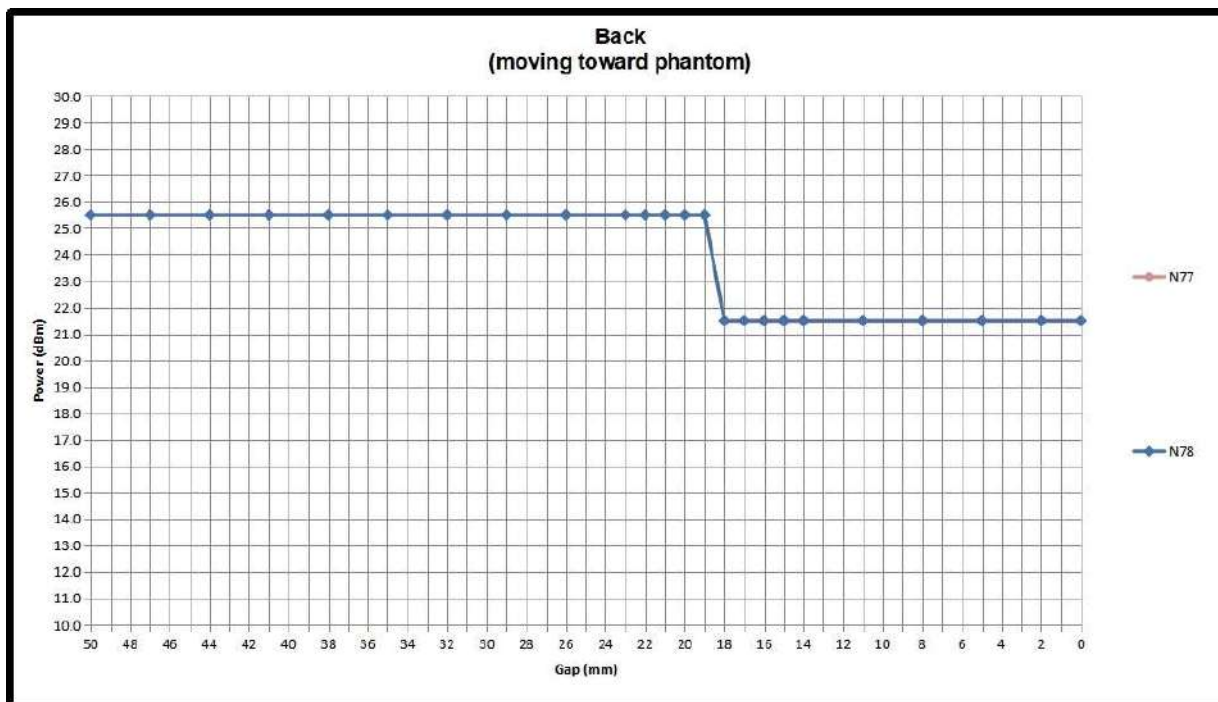
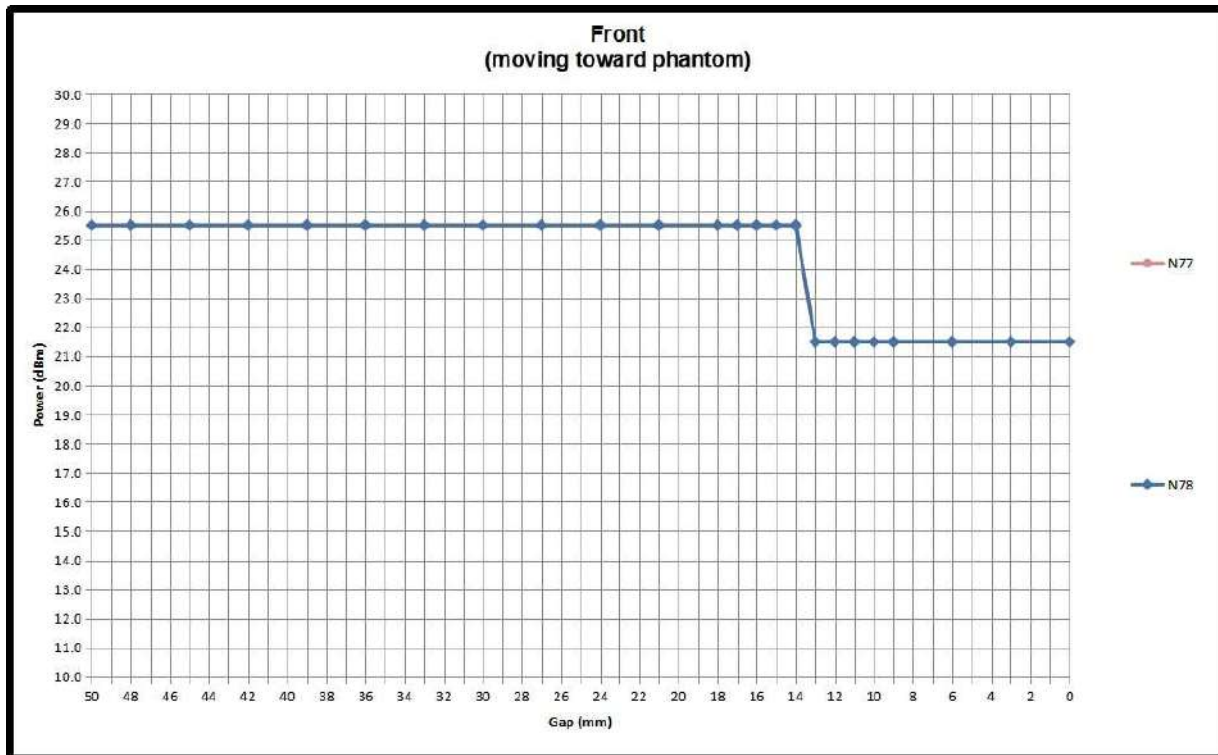
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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 40 of 140

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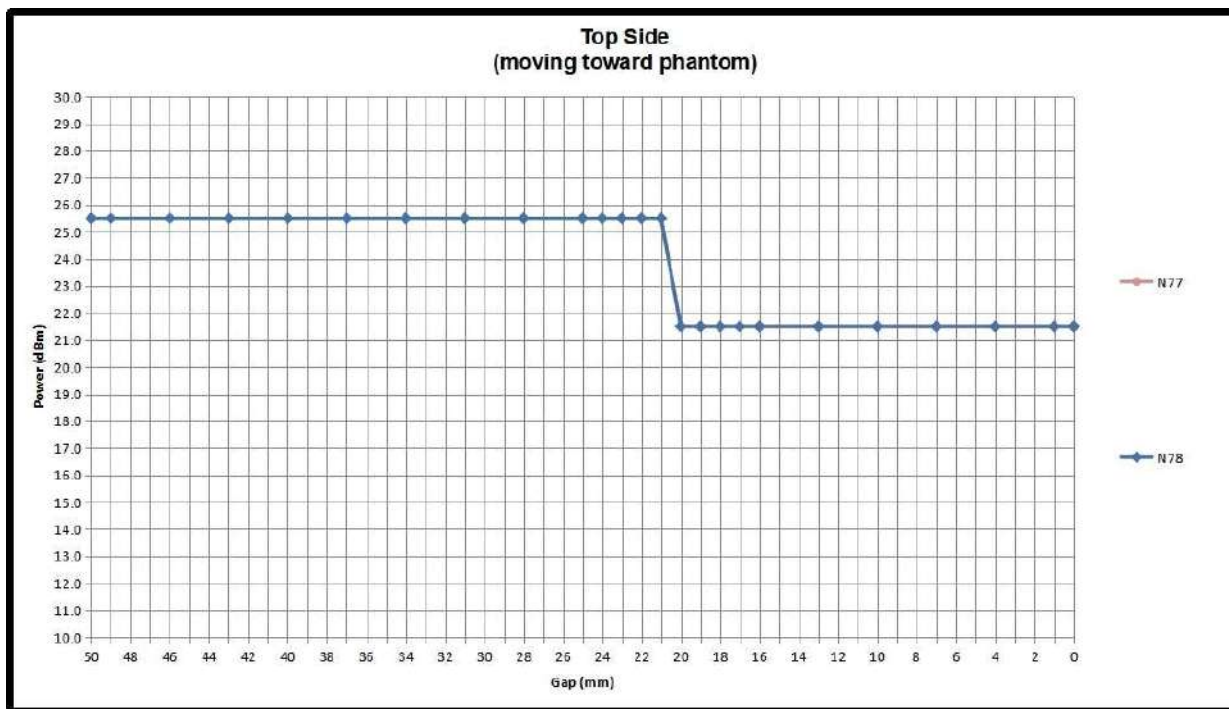
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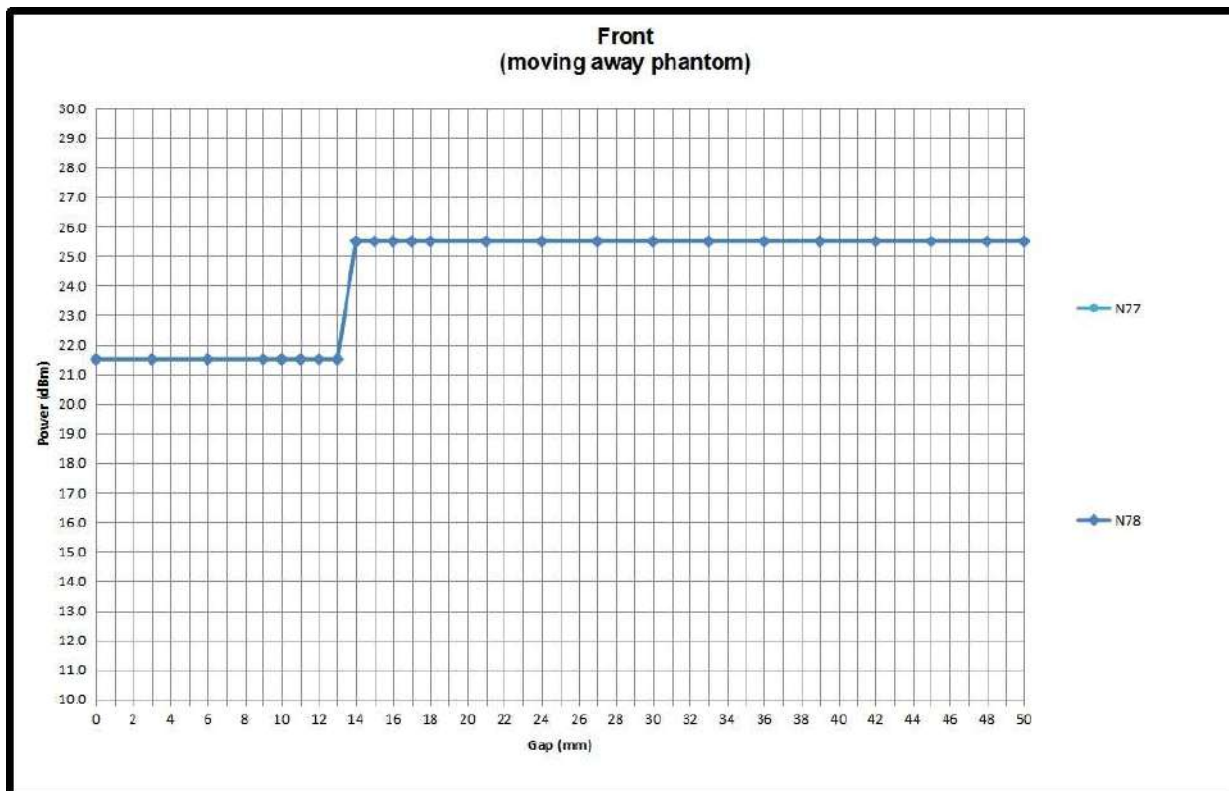
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Rev.: 01

Page: 41 of 140



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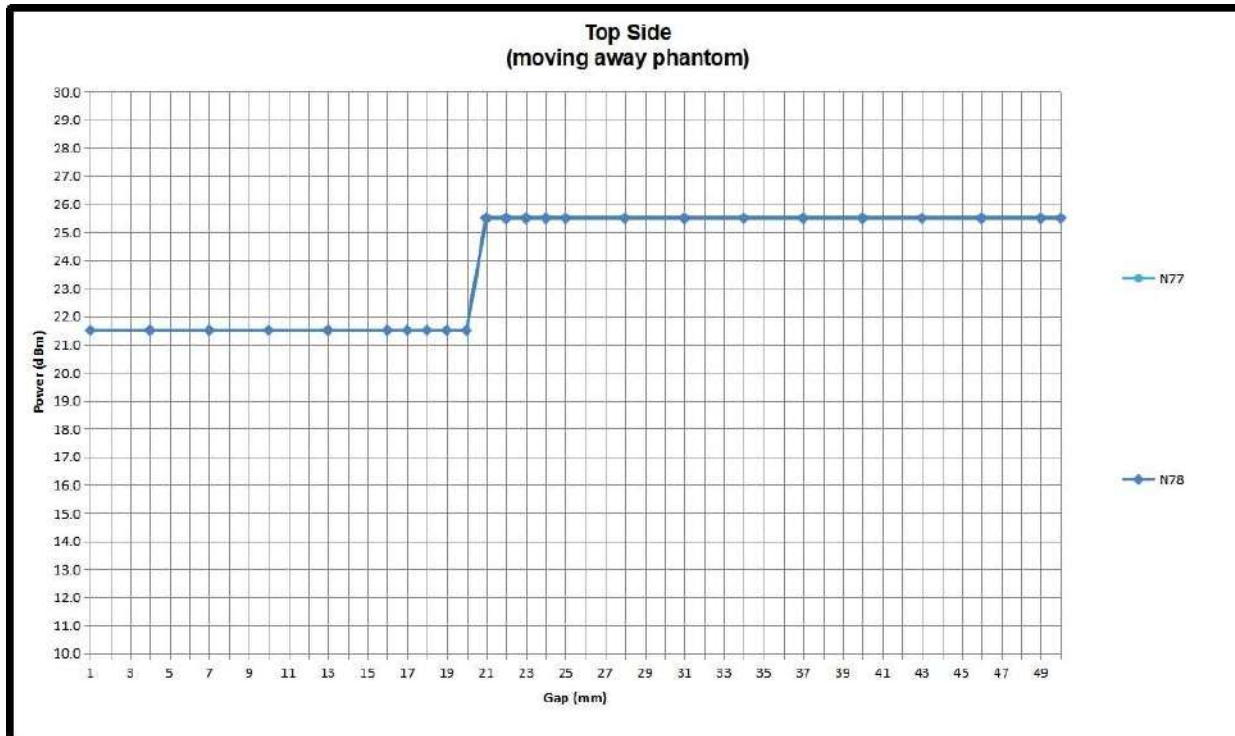
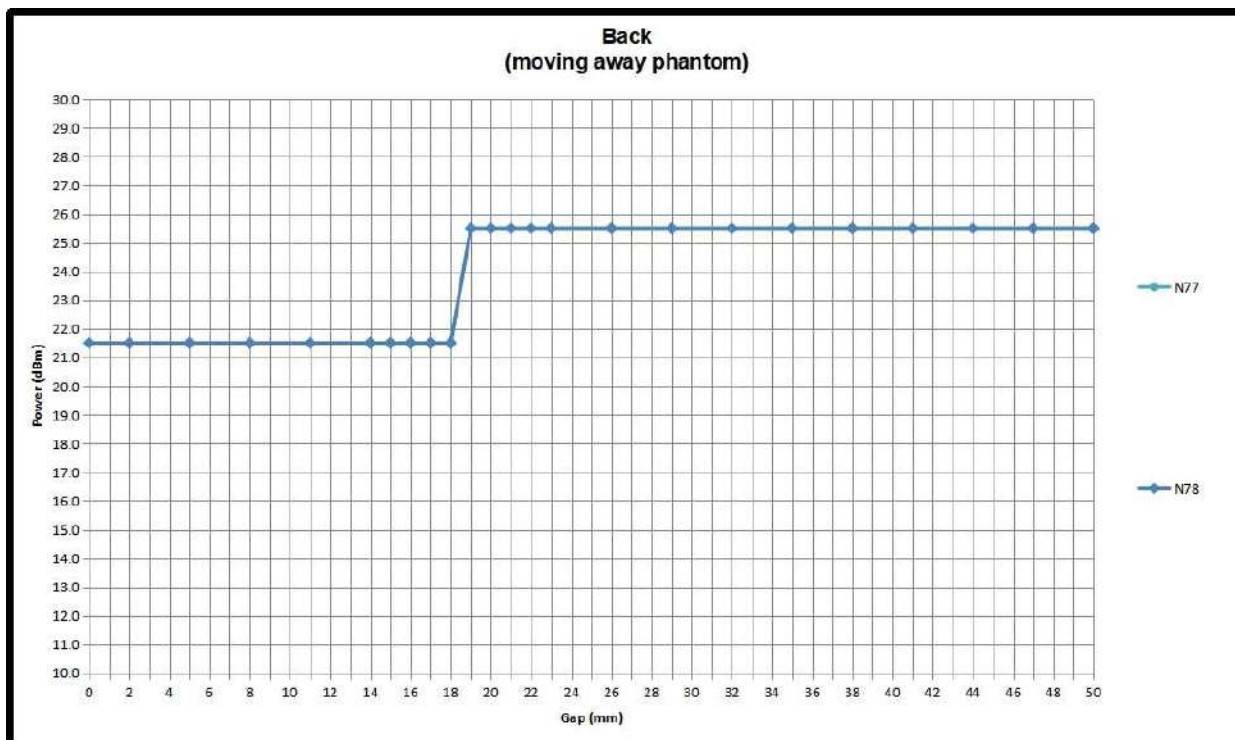
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Rev.: 01

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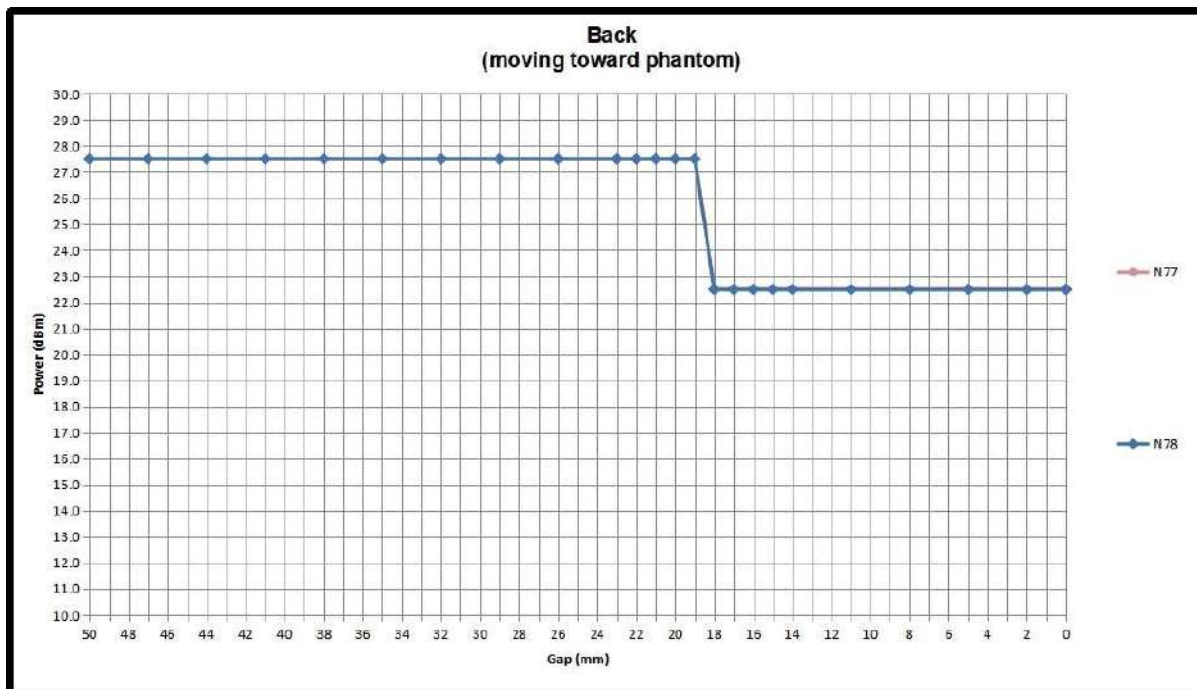
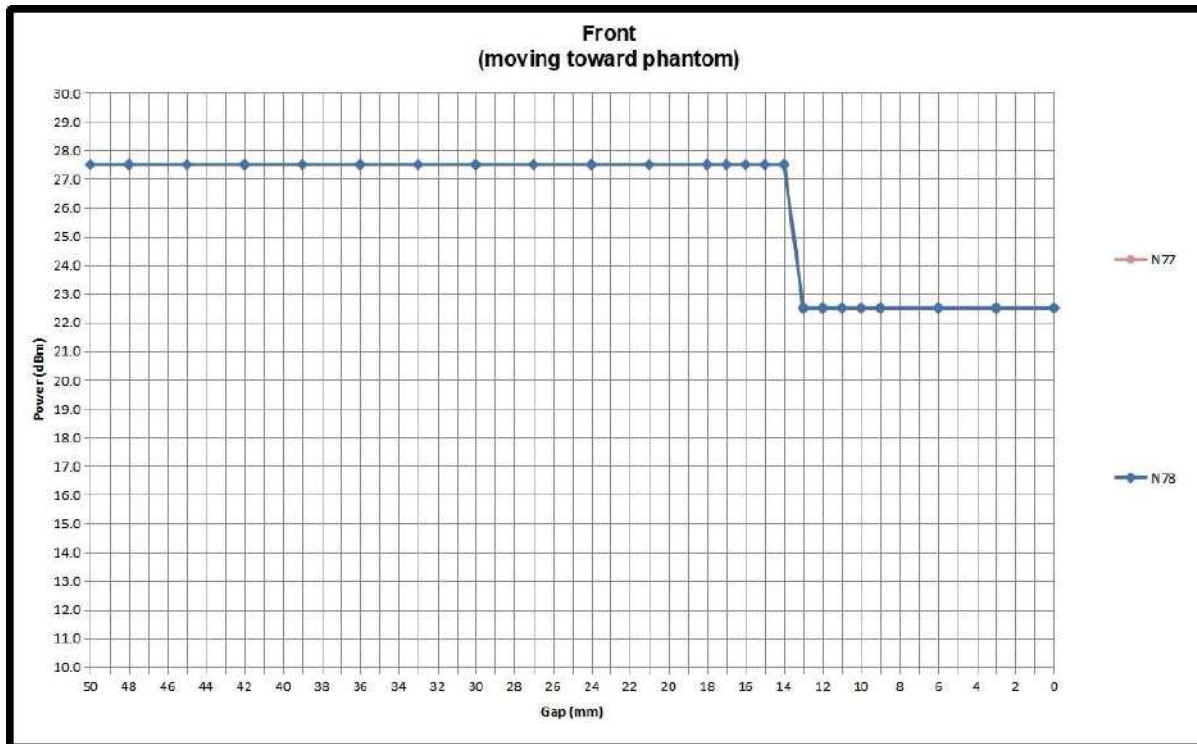
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Rev.: 01

Page: 43 of 140

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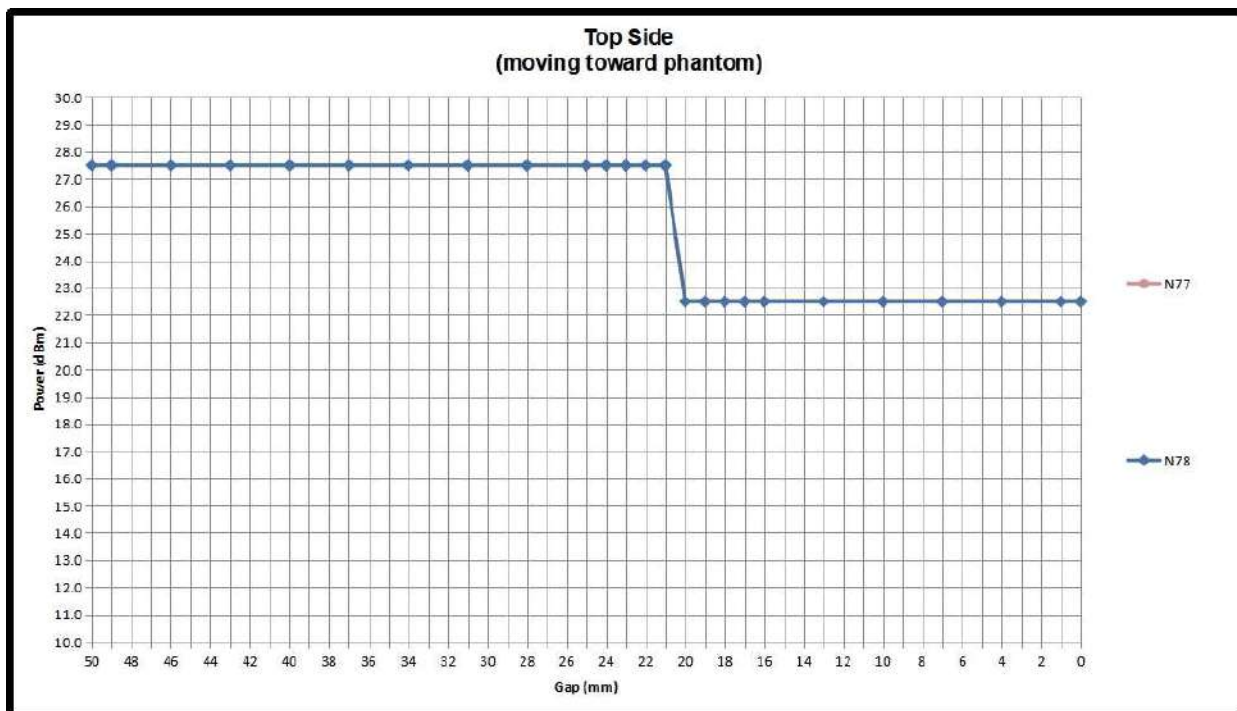
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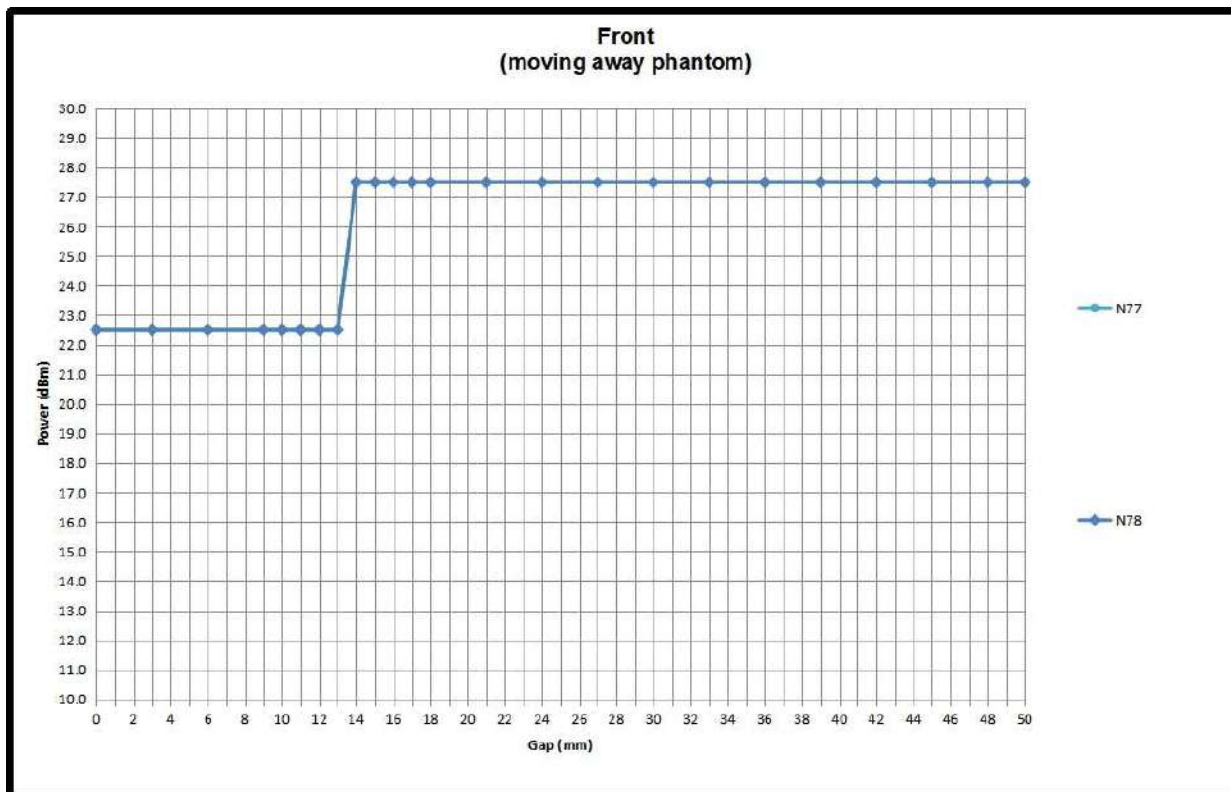
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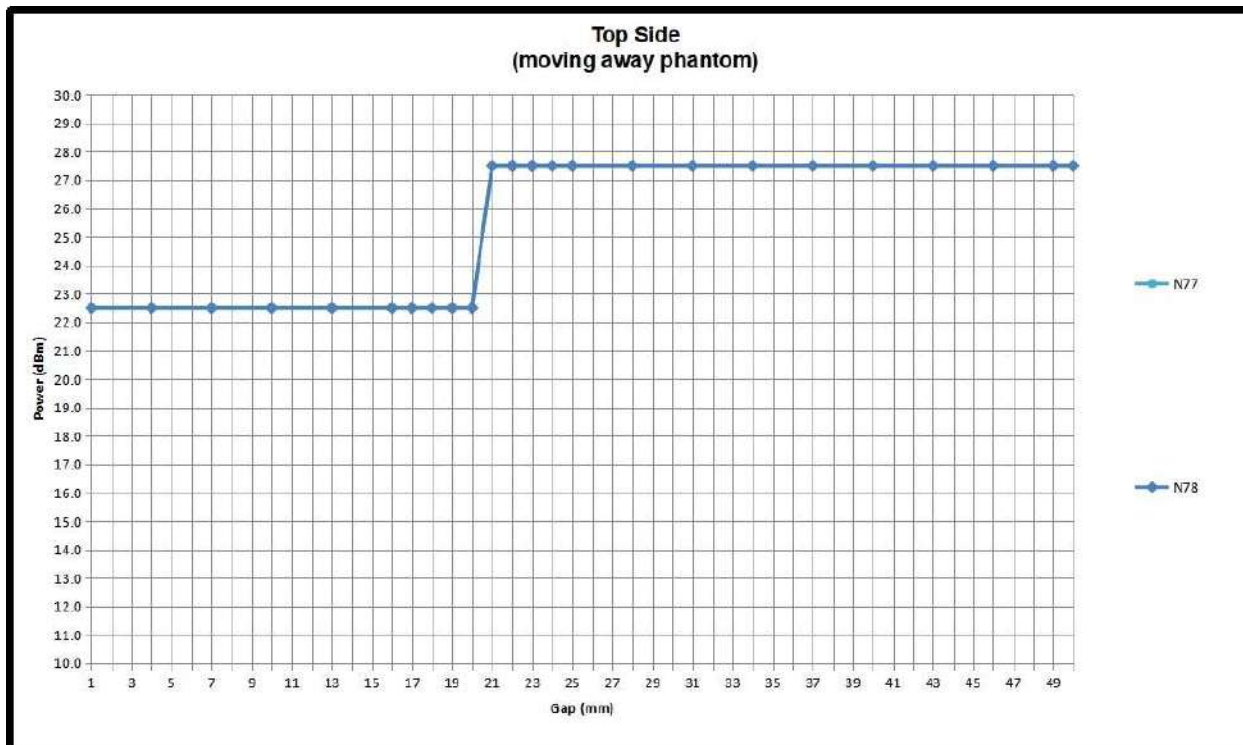
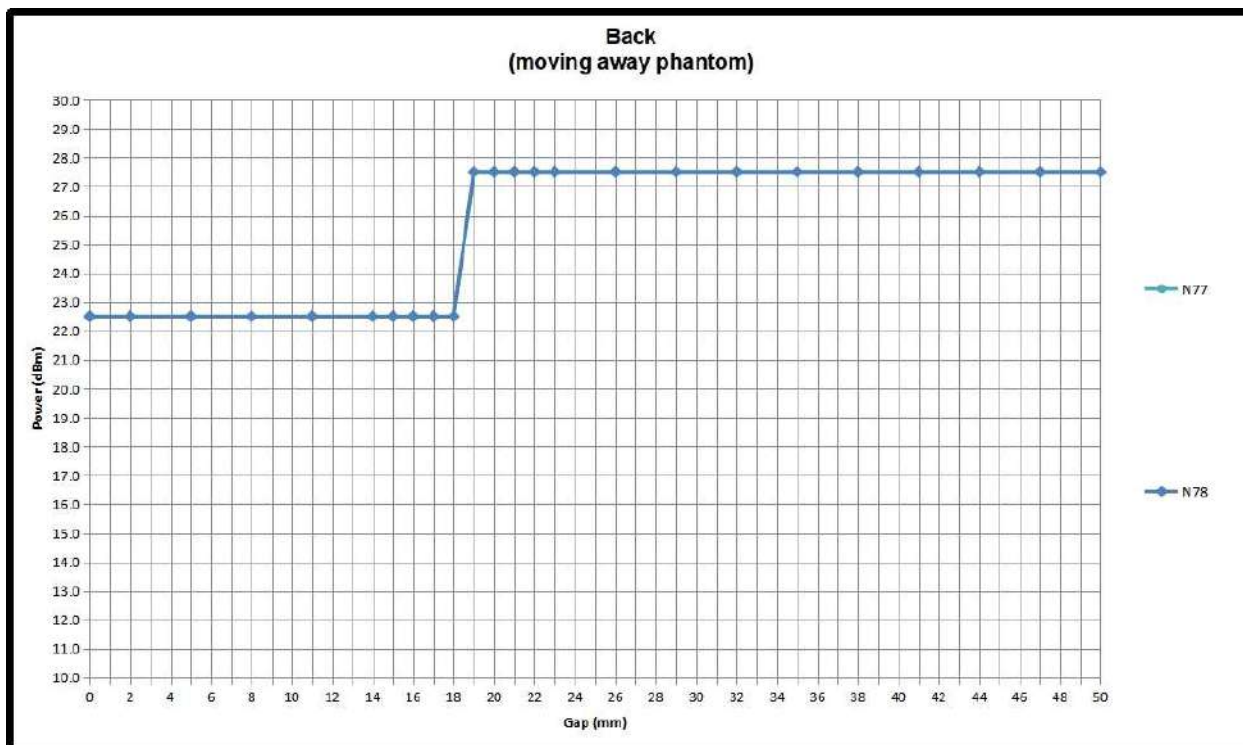
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Proximity sensor coverage

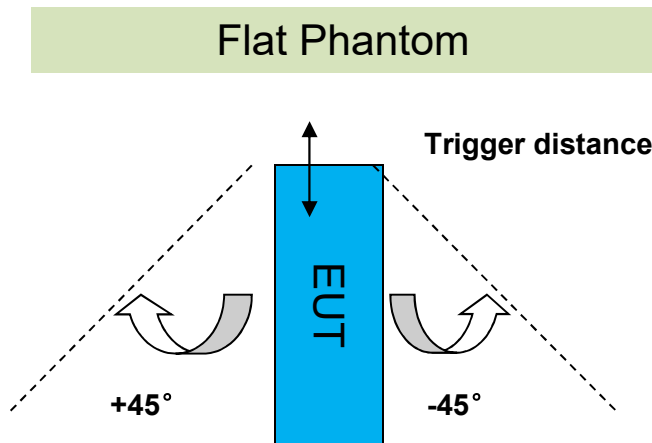
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side													
Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant0	Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant3/4/5	Top side:20mm	Top side:20mm	on	on	on	on	on	on	on	on	on	on	on



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The following tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients (% by weight)	Frequency (MHz)				
	450	700-900	1750-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ ⁺ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
HSL13MHz is composed of the following ingredients: Water: 50-90% Non-ionic detergents: 5-50% NaCl: 0-2% Preservative: 0.03-0.1% HSL5GHz is composed of the following ingredients: Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 3: Recipe of Tissue Simulate Liquid



6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^{\circ}\text{C}$.

Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
13 Head	13	55	0.75	53.700	0.757	22.6	2023/6/8
750 Head	750	41.9	0.89	40.400	0.904	22.6	2023/5/5
835 Head	835	41.5	0.90	41.500	0.890	22.2	2023/5/7
1750 Head	1750	40.1	1.37	40.000	1.380	22.9	2023/5/10
1900 Head	1900	40.0	1.40	39.800	1.360	22.9	2023/5/12
2450 Head	2450	39.20	1.80	38.000	1.880	22.6	2023/5/16
2600 Head	2600	39.0	1.96	40.700	1.940	22.5	2023/5/18
3500 Head	3500	37.9	2.91	37.700	2.930	22.5	2023/5/26
3900 Head	3900	37.5	3.32	37.200	3.210	22.6	2023/5/28
5250 Head	5250	35.9	4.66	35.500	4.510	22.7	2023/5/24
5600 Head	5600	35.5	5.07	35.000	4.820	22.7	2023/5/24
5750 Head	5750	35.4	5.22	34.500	5.120	22.7	2023/5/24

Table 4: Measurement result of Tissue electric parameters



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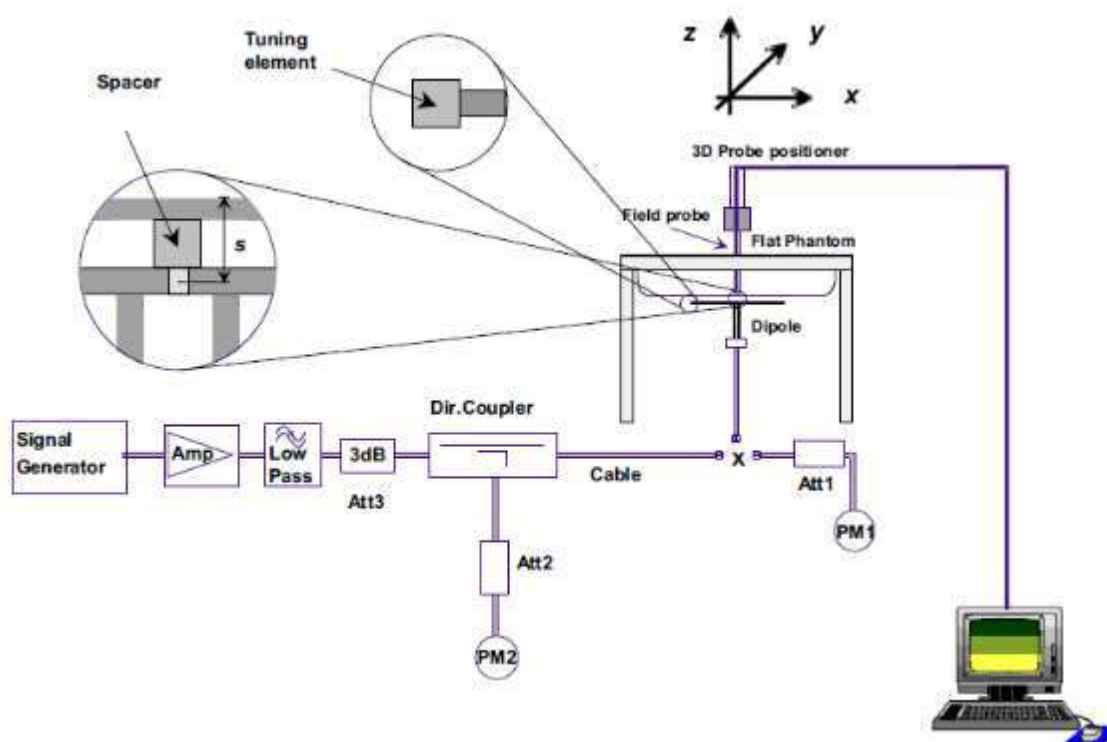
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6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range $22 \pm 2^\circ\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15 \pm 0.5\text{ cm}$ in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 50 of 140

6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 51 of 140

6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
CLA13	Head	0.113	0.0712	0.45	0.28	0.421	0.266	7.36%	7.07%	22.8	2023/6/8
D750V3	Head	2.19	1.44	8.76	5.76	8.39	5.63	4.41%	2.31%	22.6	2023/5/5
D835V2	Head	2.31	1.50	9.24	6.00	9.64	6.29	-4.15%	-4.61%	22.2	2023/5/7
D1750V2	Head	9.40	5.01	37.60	20.04	36.30	19.20	3.58%	4.38%	22.9	2023/5/10
D1900V2	Head	9.27	4.80	37.08	19.20	39.30	20.20	-5.65%	-4.95%	22.9	2023/5/12
D2450V2	Head	13.00	6.10	52.00	24.40	51.90	23.80	0.19%	2.52%	22.6	2023/5/16
D2600V2	Head	15.10	6.81	60.40	27.24	56.80	24.90	6.34%	9.40%	22.5	2023/5/18
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D3500V2	Head(3.5GHz)	6.07	2.31	60.70	23.10	66.50	25.10	-8.72%	-7.97%	22.5	2023/5/26
D3900V2	Head(3.9GHz)	6.45	2.28	64.50	22.80	71.10	24.60	-9.28%	-7.32%	22.6	2023/5/28
D5GHzV2	Head(5.25GHz)	7.06	2.04	70.60	20.40	75.20	21.50	-6.12%	-5.12%	22.7	2023/5/24
	Head(5.6GHz)	7.82	2.22	78.20	22.20	80.00	22.70	-2.25%	-2.20%	22.7	2023/5/24
	Head(5.75GHz)	7.22	2.06	72.20	20.60	78.70	22.30	-8.26%	-7.62%	22.7	2023/5/24

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode



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7.2.2 WCDMA Test Configuration

1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) . Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

3) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 54 of 140

Sub-test	β_c	Bd	$\beta_d(\text{SF})$	β_c/β_d	β_{hs}	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: ΔACK , ΔNACK and $\Delta\text{CQI} = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and $\Delta\text{NACK} = 8$ (Ahs = $30/15$) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta\text{CQI} = 7$ (Ahs = $24/15$) with $\beta_{hs} = 24/15 * \beta_c$.
 Note3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	Maximum HS-DSCH Transport Block Bits/HS-DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7: HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the „WCDMA Handset“ and „Release 5 HSUPA Data Device“ sections of 3G device.



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Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (1)	β_{eoc}	β_{ed}	β_c (SF)	β_{ed} (code)	CM(2)	MP R (dB)	AG(4) Inde x	E-TFC I
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: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCCH, 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 signalled 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 signalled 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} can not be set directly; it is set by Absolute Grant Value.

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

Table 9: HSUPA UE category



c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 10: settings of required H-Set 12 QPSK acc. to 3GPP 34.121
Note:

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



Report No.: SEWM2304000137RG09
Rev.: 01
Page: 58 of 140

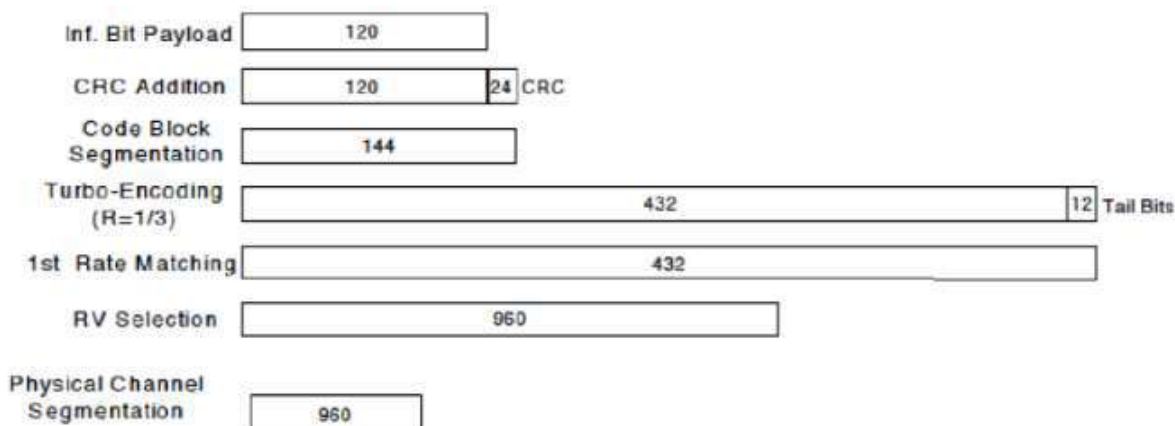


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test ^a	β_c ^a	β_d ^a	β_d (SF) ^a	β_c/β_d ^a	$\beta_{hs}(1)$ ^a	CM(dB)(2) ^a	MPR (dB) ^a
1 ^a	2/15 ^a	15/15 ^a	64 ^a	2/15 ^a	4/15 ^a	0.0 ^a	0 ^a
2 ^a	12/15(3) ^a	15/15(3) ^a	64 ^a	12/15(3) ^a	24/15 ^a	1.0 ^a	0 ^a
3 ^a	15/15 ^a	8/15 ^a	64 ^a	15/8 ^a	30/15 ^a	1.5 ^a	0.5 ^a
4 ^a	15/15 ^a	4/15 ^a	64 ^a	15/4 ^a	30/15 ^a	1.5 ^a	0.5 ^a

Note 1: Δ ACK, Δ NACK and Δ CQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
 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 signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

Up commands are set continuously to set the UE to Max power.

Note:

1. The Dual Carriers transmission only applies to HSDPA physical channels
2. The Dual Carriers belong to the same Node and are on adjacent carriers.
3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
4. The Dual Carriers operate in the same frequency band.
5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
6. The device doesn't support carrier aggregation for it just can operate in Release 8.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 59 of 140

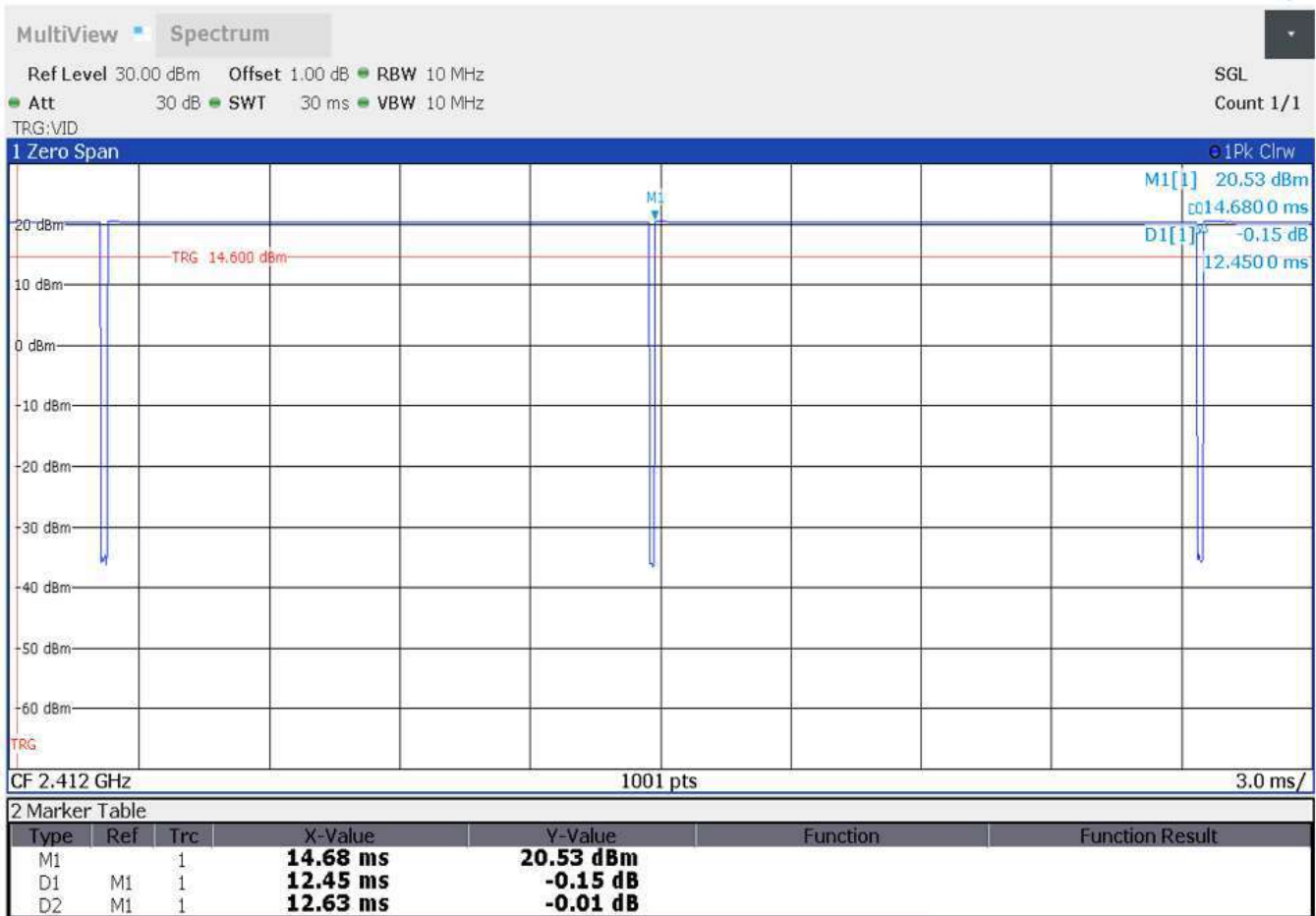
7.2.3 WiFi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

Wi-Fi 2.4GHz 802.11b:

Duty cycle=98.57%



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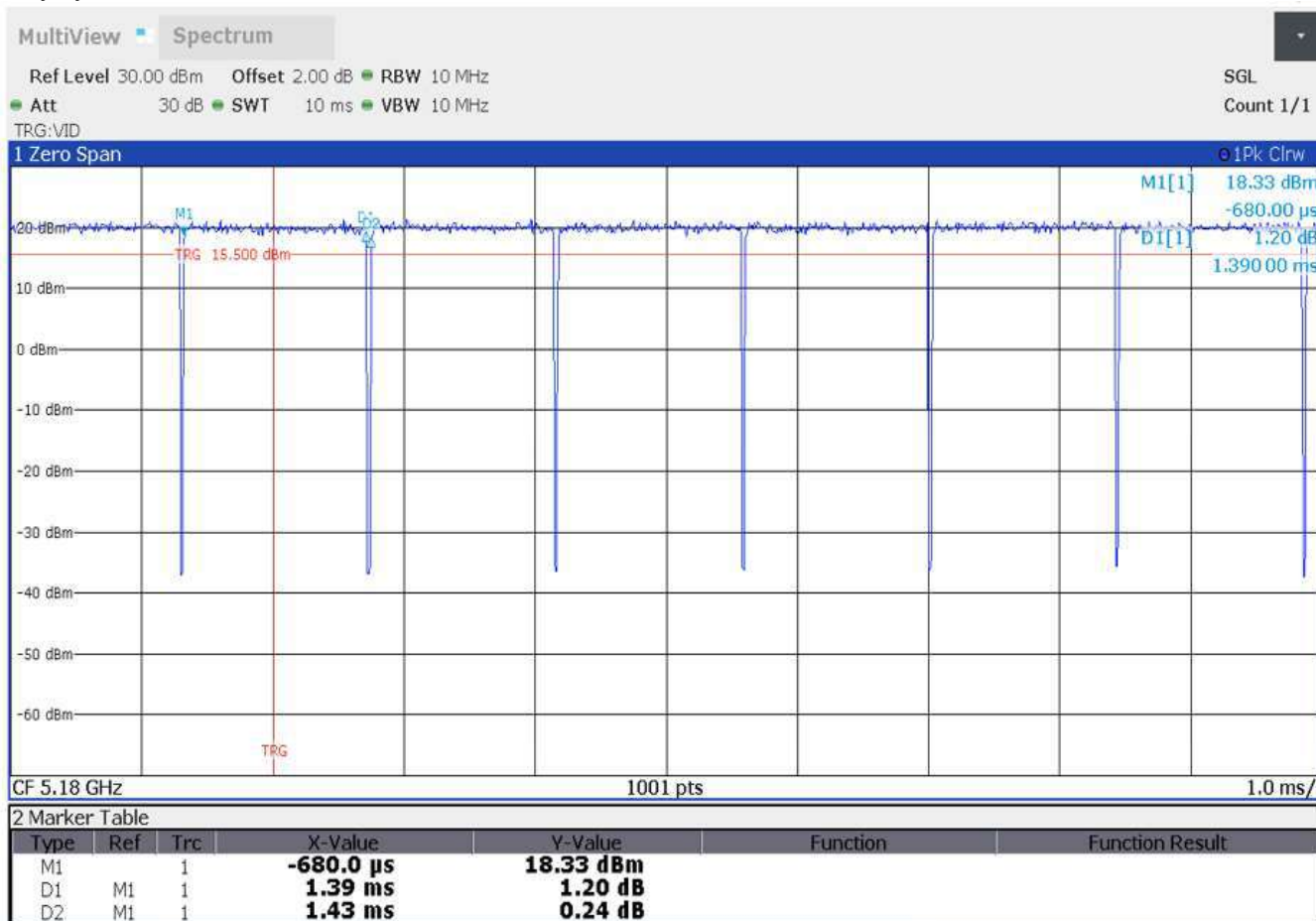
Report No.: SEWM2304000137RG09

Rev.: 01

Page: 60 of 140

Wi-Fi 5GHz 802.11a:

Duty cycle=97.2%



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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.2.3.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 62 of 140

band and exposure configuration.

- 2) . When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"



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7.2.3.5 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

- **802.11b DSSS SAR Test Requirements**

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) . 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 for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . 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.

- **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8820C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

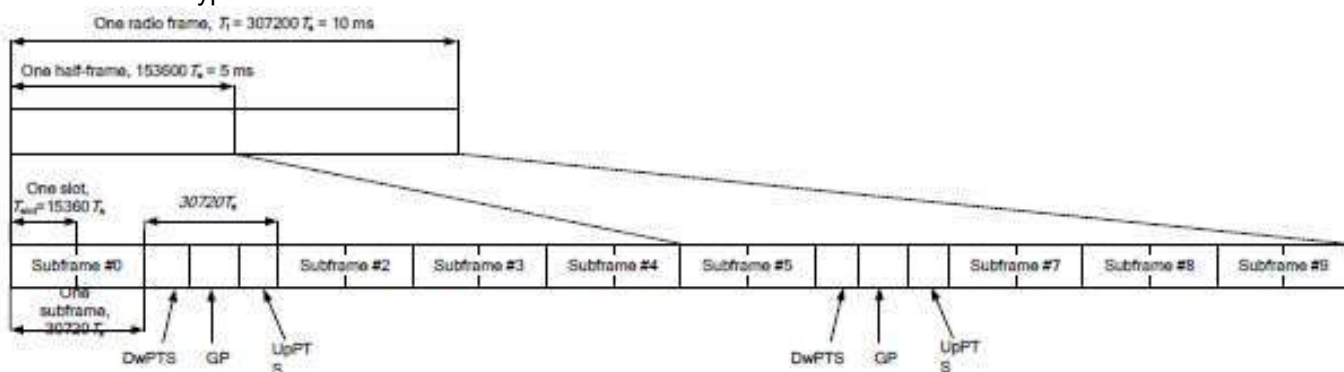
TDD LTE test consideration

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

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

Frame structure type 2:



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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 65 of 140

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.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts		
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.Ts
6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-		
9	13168.Ts			-		

Uplink-downlink configurations.

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

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

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



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A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

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

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) 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 for 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. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

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

3) 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 1) and 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.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections 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 > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) 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 A) 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 > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 67 of 140

7.2.5 NR Band Test Configuration

1. NR Band n5/n7/n38/n41/n66/n77/n78 support SA mode and n5/n7/n38/n41/n66/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna	LTE Band 2		LTE Band 5		LTE Band 26		LTE Band 7		LTE Band 12		LTE Band 66		LTE Band 38		LTE Band 41	
	Ant0	Ant4	Ant0	Ant4	Ant0	Ant4	Ant0	Ant4	Ant0	Ant4	Ant0	Ant4	Ant0	Ant4	Ant0	Ant4
n5	Ant0						✓									
	Ant4															
n7	Ant0															
	Ant4									✓						
n38	Ant0										✓					
	Ant4									✓						
n41	Ant0															
	Ant4				✓						✓					
n66	Ant0	✓														
	Ant4		✓						✓							
n78	Ant3	✓	✓		✓		✓				✓		✓		✓	
	Ant5	✓	✓		✓		✓				✓		✓		✓	



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 68 of 140

2. The general information supported by the NR band is as following table:

Band			n5	n7	n38	n41	N66	n77	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Duty Cycle			100%	100%	100%	100%	100%	PC2/3 100%	PC2/3 100%

Band	SCS	Bandwidth												
		5Mh Z	10Mh Z	15Mh Z	20Mh Z	25Mh Z	30Mh Z	40Mh Z	50Mh Z	60Mh Z	70Mh Z	80Mh Z	90Mh Z	100Mh Z
n5	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n66-SA	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n66-NSA	15KH Z	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	30KH Z	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	30KH Z	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n77	30KH Z	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes
n78	30KH Z	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 69 of 140

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



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4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

- 1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be $\leq$ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.



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8 Test Result

8.1 Measurement of RF conducted Power

The detailed conducted power table can refer to Appendix E.

Note:

- 1) . For GSM SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power = $10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8)$
- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.
The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing
- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 72 of 140

- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector.

BT DH5 Duty Cycle=76.86%



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz .
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WiFi 2.4G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 3) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

5G NR:

- 1) The duty cycle of n77/n78 power level 2 and power level 3 is consistent, so only power level 2 is evaluated.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 74 of 140

8.2.1 SAR Result of GSM850

GSM850 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.185	0.06	29.29	30.50	1.321	0.244	22.2
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.114	0.03	29.29	30.50	1.321	0.151	22.2
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.206	0.02	29.29	30.50	1.321	0.272	22.2
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.127	-0.04	29.29	30.50	1.321	0.168	22.2
Hotspot Test data(Separate 10mm)										
Front side	GPRS 3TS	190/836.6	1:2.77	0.214	0.13	29.29	30.50	1.321	0.283	22.2
Back side	GPRS 3TS	190/836.6	1:2.77	0.423	-0.08	29.29	30.50	1.321	0.559	22.2
Left side	GPRS 3TS	190/836.6	1:2.77	0.128	0.00	29.29	30.50	1.321	0.169	22.2
Right side	GPRS 3TS	190/836.6	1:2.77	0.270	-0.02	29.29	30.50	1.321	0.357	22.2
Bottom side	GPRS 3TS	190/836.6	1:2.77	0.311	0.10	29.29	30.50	1.321	0.411	22.2
Body-worn Test data(Separate 10mm)										
Front side	GPRS 3TS	190/836.6	1:2.77	0.214	0.13	29.29	30.50	1.321	0.283	22.2
Back side	GPRS 3TS	190/836.6	1:2.77	0.423	-0.08	29.29	30.50	1.321	0.559	22.2
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.508	0.01	28.84	29.50	1.164	0.591	22.2
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.479	0.02	28.84	29.50	1.164	0.558	22.2
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.540	-0.06	28.84	29.50	1.164	0.629	22.2
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.505	0.08	28.84	29.50	1.164	0.588	22.2
Hotspot Test data(Separate 10mm)										
Front side	GPRS 3TS	190/836.6	1:2.77	0.197	0.15	29.84	30.50	1.164	0.229	22.2
Back side	GPRS 3TS	190/836.6	1:2.77	0.415	0.11	29.84	30.50	1.164	0.483	22.2
Left side	GPRS 3TS	190/836.6	1:2.77	0.101	0.11	29.84	30.50	1.164	0.118	22.2
Top side	GPRS 3TS	190/836.6	1:2.77	0.235	0.07	29.84	30.50	1.164	0.274	22.2
Body-worn Test data(Separate 10mm)										
Front side	GPRS 3TS	190/836.6	1:2.77	0.197	0.15	29.84	30.50	1.164	0.229	22.2
Back side	GPRS 3TS	190/836.6	1:2.77	0.415	0.11	29.84	30.50	1.164	0.483	22.2

Table 11: SAR of GSM850 for Head and Body



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 75 of 140

8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GPRS 3TS	661/1880	1:2.77	0.061	0.04	26.38	27.50	1.294	0.079	22.9
Left tilted	GPRS 3TS	661/1880	1:2.77	0.049	-0.05	26.38	27.50	1.294	0.063	22.9
Right cheek	GPRS 3TS	661/1880	1:2.77	0.078	0.03	26.38	27.50	1.294	0.101	22.9
Right tilted	GPRS 3TS	661/1880	1:2.77	0.047	0.01	26.38	27.50	1.294	0.061	22.9
Hotspot (sensor on) Test data(Separate 10mm)										
Front side	GPRS 3TS	661/1880	1:2.77	0.100	0.08	25.39	26.50	1.291	0.129	22.9
Back side	GPRS 3TS	661/1880	1:2.77	0.163	0.09	25.39	26.50	1.291	0.210	22.9
Bottom side	GPRS 3TS	661/1880	1:2.77	0.178	-0.01	25.39	26.50	1.291	0.230	22.9
Hotspot (sensor off) Test data										
Front side-12mm	GPRS 3TS	661/1880	1:2.77	0.102	0.02	26.38	27.50	1.294	0.132	22.9
Back side-17mm	GPRS 3TS	661/1880	1:2.77	0.121	0.09	26.38	27.50	1.294	0.157	22.9
Left side-10mm	GPRS 3TS	661/1880	1:2.77	0.039	0.01	26.38	27.50	1.294	0.050	22.9
Right side-10mm	GPRS 3TS	661/1880	1:2.77	0.043	0.09	26.38	27.50	1.294	0.056	22.9
Bottom side-15mm	GPRS 3TS	661/1880	1:2.77	0.169	0.04	26.38	27.50	1.294	0.219	22.9
Body-worn Test data(Separate 10mm)										
Front side	GPRS 3TS	661/1880	1:2.77	0.100	0.08	25.39	26.50	1.291	0.129	22.9
Back side	GPRS 3TS	661/1880	1:2.77	0.163	0.09	25.39	26.50	1.291	0.210	22.9
Front side-12mm	GPRS 3TS	661/1880	1:2.77	0.102	0.02	26.38	27.50	1.294	0.132	22.9
Back side-17mm	GPRS 3TS	661/1880	1:2.77	0.121	0.09	26.38	27.50	1.294	0.157	22.9
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GPRS 3TS	661/1880	1:2.77	0.446	0.09	20.18	21.00	1.208	0.539	22.9
Left tilted	GPRS 3TS	661/1880	1:2.77	0.501	-0.01	20.18	21.00	1.208	0.605	22.9
Right cheek	GPRS 3TS	661/1880	1:2.77	0.567	0.02	20.18	21.00	1.208	0.685	22.9
Right tilted	GPRS 3TS	661/1880	1:2.77	0.736	-0.06	20.18	21.00	1.208	0.889	22.9
Right tilted	GPRS 3TS	512/1850.2	1:2.77	0.579	0.11	19.94	21.00	1.276	0.739	22.9
Right tilted	GPRS 3TS	810/1909.8	1:2.77	0.878	-0.06	20.06	21.00	1.242	1.090	22.9
Right tilted-Repeat SAR	GPRS 3TS	810/1909.8	1:2.77	0.873	0.04	20.06	21.00	1.242	1.084	22.9
Hotspot (sensor on) Test data(Separate 10mm)										
Front side	GPRS 3TS	661/1880	1:2.77	0.273	-0.02	21.61	22.50	1.227	0.335	22.9
Back side	GPRS 3TS	661/1880	1:2.77	0.526	-0.01	21.61	22.50	1.227	0.646	22.9
Top side	GPRS 3TS	661/1880	1:2.77	0.654	0.01	21.61	22.50	1.227	0.803	22.9
Top side	GPRS 3TS	512/1850.2	1:2.77	0.424	0.06	21.35	22.50	1.303	0.553	22.9



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 76 of 140

Top side	GPRS 3TS	810/1909.8	1:2.77	0.750	-0.10	21.57	22.50	1.239	0.929	22.9
Hotspot (sensor off) Test data										
Front side-12mm	GPRS 3TS	661/1880	1:2.77	0.384	0.05	26.54	27.50	1.247	0.479	22.9
Back side-17mm	GPRS 3TS	661/1880	1:2.77	0.420	-0.04	26.54	27.50	1.247	0.524	22.9
Left side-10mm	GPRS 3TS	661/1880	1:2.77	0.096	-0.01	26.54	27.50	1.247	0.120	22.9
Top side-19mm	GPRS 3TS	661/1880	1:2.77	0.513	0.01	26.54	27.50	1.247	0.640	22.9
Body-worn Test data(Separate 10mm)										
Front side	GPRS 3TS	661/1880	1:2.77	0.273	-0.02	21.61	22.50	1.227	0.335	22.9
Back side	GPRS 3TS	661/1880	1:2.77	0.526	-0.01	21.61	22.50	1.227	0.646	22.9
Front side-12mm	GPRS 3TS	661/1880	1:2.77	0.384	0.05	26.54	27.50	1.247	0.479	22.9
Back side-17mm	GPRS 3TS	661/1880	1:2.77	0.420	-0.04	26.54	27.50	1.247	0.524	22.9

Table 12: SAR of GSM1900 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	810/1909.8	0.878	0.873	1.006	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 77 of 140

8.2.3 SAR Result of WCDMA Band II

W B2 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.122	0.06	24.17	25.50	1.358	0.166	22.9
Left tilted	RMC	9400/1880	1:1	0.088	0.06	24.17	25.50	1.358	0.120	22.9
Right cheek	RMC	9400/1880	1:1	0.183	-0.01	24.17	25.50	1.358	0.249	22.9
Right tilted	RMC	9400/1880	1:1	0.101	0.02	24.17	25.50	1.358	0.137	22.9
Hotspot (sensor on) Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.206	0.03	20.21	21.50	1.346	0.277	22.9
Back side	RMC	9400/1880	1:1	0.374	0.04	20.21	21.50	1.346	0.503	22.9
Bottom side	RMC	9400/1880	1:1	0.398	-0.04	20.21	21.50	1.346	0.536	22.9
Hotspot (sensor off) Test data										
Front side-12mm	RMC	9400/1880	1:1	0.346	0.05	24.17	25.50	1.358	0.470	22.9
Front side-17mm	RMC	9400/1880	1:1	0.312	0.03	24.17	25.50	1.358	0.424	22.9
Left side-10mm	RMC	9400/1880	1:1	0.096	-0.03	24.17	25.50	1.358	0.130	22.9
Right side-10mm	RMC	9400/1880	1:1	0.095	0.01	24.17	25.50	1.358	0.129	22.9
Bottom side-15mm	RMC	9400/1880	1:1	0.402	0.04	24.17	25.50	1.358	0.546	22.9
Body-worn Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.206	0.03	20.21	21.50	1.346	0.277	22.9
Back side	RMC	9400/1880	1:1	0.374	0.04	20.21	21.50	1.346	0.503	22.9
Front side-12mm	RMC	9400/1880	1:1	0.346	0.05	24.17	25.50	1.358	0.470	22.9
Back side-17mm	RMC	9400/1880	1:1	0.312	0.03	24.17	25.50	1.358	0.424	22.9
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.336	-0.05	14.31	15.50	1.315	0.442	22.9
Left tilted	RMC	9400/1880	1:1	0.456	-0.05	14.31	15.50	1.315	0.600	22.9
Right cheek	RMC	9400/1880	1:1	0.523	0.09	14.31	15.50	1.315	0.688	22.9
Right tilted	RMC	9400/1880	1:1	0.642	0.07	14.31	15.50	1.315	0.844	22.9
Right tilted	RMC	9262/1852.4	1:1	0.542	0.02	14.19	15.50	1.352	0.733	22.9
Right tilted	RMC	9538/1907.6	1:1	0.707	-0.04	14.25	15.50	1.334	0.943	22.9
Hotspot (sensor on) Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.299	-0.11	16.81	18.00	1.315	0.393	22.9
Back side	RMC	9400/1880	1:1	0.643	-0.02	16.81	18.00	1.315	0.846	22.9
Back side	RMC	9262/1852.4	1:1	0.535	-0.13	16.73	18.00	1.340	0.717	22.9
Back side	RMC	9538/1907.6	1:1	0.666	-0.09	16.79	18.00	1.321	0.880	22.9
Top side	RMC	9400/1880	1:1	0.694	-0.11	16.81	18.00	1.315	0.913	22.9
Top side	RMC	9262/1852.4	1:1	0.517	0.01	16.73	18.00	1.340	0.693	22.9



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 78 of 140

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Hotspot (sensor off) Test data										
Front side-12mm	RMC	9400/1880	1:1	0.634	0.06	22.42	23.50	1.282	0.813	22.9
Front side-12mm	RMC	9262/1852.4	1:1	0.518	-0.05	22.25	23.50	1.334	0.691	22.9
Front side-12mm	RMC	9538/1907.6	1:1	0.653	0.01	22.41	23.50	1.285	0.839	22.9
Back side-17mm	RMC	9400/1880	1:1	0.625	0.09	22.42	23.50	1.282	0.801	22.9
Back side-17mm	RMC	9262/1852.4	1:1	0.506	0.06	22.25	23.50	1.334	0.675	22.9
Back side-17mm	RMC	9538/1907.6	1:1	0.644	0.01	22.41	23.50	1.285	0.828	22.9
Left side-10mm	RMC	9400/1880	1:1	0.094	0.03	22.42	23.50	1.282	0.121	22.9
Top side-19mm	RMC	9400/1880	1:1	0.756	0.01	22.42	23.50	1.282	0.969	22.9
Top side-19mm	RMC	9262/1852.4	1:1	0.662	-0.05	22.25	23.50	1.334	0.883	22.9
Top side-19mm	RMC	9538/1907.6	1:1	0.786	0.07	22.41	23.50	1.285	1.010	22.9
Body-worn Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.299	-0.11	16.81	18.00	1.315	0.393	22.9
Back side	RMC	9400/1880	1:1	0.643	-0.02	16.81	18.00	1.315	0.846	22.9
Back side	RMC	9262/1852.4	1:1	0.535	-0.13	16.73	18.00	1.340	0.717	22.9
Back side	RMC	9538/1907.6	1:1	0.666	-0.09	16.79	18.00	1.321	0.880	22.9
Front side-12mm	RMC	9400/1880	1:1	0.634	0.06	22.42	23.50	1.282	0.813	22.9
Front side-12mm	RMC	9262/1852.4	1:1	0.518	-0.05	22.25	23.50	1.334	0.691	22.9
Front side-12mm	RMC	9538/1907.6	1:1	0.653	0.01	22.41	23.50	1.285	0.839	22.9
Back side-17mm	RMC	9400/1880	1:1	0.625	0.09	22.42	23.50	1.282	0.801	22.9
Back side-17mm	RMC	9262/1852.4	1:1	0.506	0.06	22.25	23.50	1.334	0.675	22.9
Back side-17mm	RMC	9538/1907.6	1:1	0.644	0.01	22.41	23.50	1.285	0.828	22.9

Table 13: SAR of WCDMA Band II for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 79 of 140

8.2.4 SAR Result of WCDMA Band IV

W B4 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.069	-0.03	24.19	25.50	1.352	0.093	22.9
Left tilted	RMC	1412/1732.4	1:1	0.053	0.10	24.19	25.50	1.352	0.072	22.9
Right cheek	RMC	1412/1732.4	1:1	0.106	0.05	24.19	25.50	1.352	0.143	22.9
Right tilted	RMC	1412/1732.4	1:1	0.062	0.03	24.19	25.50	1.352	0.084	22.9
Hotspot (sensor on) Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.138	0.07	19.18	20.50	1.355	0.187	22.9
Back side	RMC	1412/1732.4	1:1	0.351	0.02	19.18	20.50	1.355	0.476	22.9
Bottom side	RMC	1412/1732.4	1:1	0.425	0.05	19.18	20.50	1.355	0.576	22.9
Hotspot (sensor off) Test data										
Front side-12mm	RMC	1412/1732.4	1:1	0.296	0.02	24.19	25.50	1.352	0.400	22.9
Back side-17mm	RMC	1412/1732.4	1:1	0.368	-0.04	24.19	25.50	1.352	0.498	22.9
Left side-10mm	RMC	1412/1732.4	1:1	0.044	0.07	24.19	25.50	1.352	0.059	22.9
Right side-10mm	RMC	1412/1732.4	1:1	0.046	0.08	24.19	25.50	1.352	0.062	22.9
Bottom side-15mm	RMC	1412/1732.4	1:1	0.477	0.08	24.19	25.50	1.352	0.645	22.9
Body-worn Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.138	0.07	19.18	20.50	1.355	0.187	22.9
Back side	RMC	1412/1732.4	1:1	0.351	0.02	19.18	20.50	1.355	0.476	22.9
Front side-12mm	RMC	1412/1732.4	1:1	0.296	0.02	24.19	25.50	1.352	0.400	22.9
Back side-17mm	RMC	1412/1732.4	1:1	0.368	-0.04	24.19	25.50	1.352	0.498	22.9
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.256	0.02	16.22	16.50	1.067	0.273	22.9
Left tilted	RMC	1412/1732.4	1:1	0.341	-0.03	16.22	16.50	1.067	0.364	22.9
Right cheek	RMC	1412/1732.4	1:1	0.500	0.10	16.22	16.50	1.067	0.533	22.9
Right tilted	RMC	1412/1732.4	1:1	0.697	-0.05	16.22	16.50	1.067	0.743	22.9
Hotspot (sensor on) Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.305	0.05	18.23	19.00	1.194	0.364	22.9
Back side	RMC	1412/1732.4	1:1	0.579	-0.15	18.23	19.00	1.194	0.691	22.9
Top side	RMC	1412/1732.4	1:1	0.688	-0.06	18.23	19.00	1.194	0.821	22.9
Top side	RMC	1312/1712.4	1:1	0.629	0.11	18.07	19.00	1.239	0.779	22.9
Top side	RMC	1513/1752.6	1:1	0.637	0.06	18.22	19.00	1.197	0.762	22.9
Hotspot (sensor off) Test data										
Front side-12mm	RMC	1412/1732.4	1:1	0.651	0.06	24.65	25.50	1.216	0.792	22.9
Back side-17mm	RMC	1412/1732.4	1:1	0.597	0.01	24.65	25.50	1.216	0.726	22.9



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 80 of 140

Left side-10mm	RMC	1412/1732.4	1:1	0.149	0.04	24.65	25.50	1.216	0.181	22.9
Top side-19mm	RMC	1412/1732.4	1:1	0.819	-0.05	24.65	25.50	1.216	0.996	22.9
Top side-19mm-Repeat SAR	RMC	1412/1732.4	1:1	0.815	0.11	24.65	25.50	1.216	0.991	22.9
Top side-19mm	RMC	1312/1712.4	1:1	0.736	-0.16	24.51	25.50	1.256	0.924	22.9
Top side-19mm	RMC	1513/1752.6	1:1	0.772	0.08	24.62	25.50	1.225	0.945	22.9
Body-worn Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.305	0.05	18.23	19.00	1.194	0.364	22.9
Back side	RMC	1412/1732.4	1:1	0.579	-0.15	18.23	19.00	1.194	0.691	22.9
Front side-12mm	RMC	1412/1732.4	1:1	0.651	0.06	24.65	25.50	1.216	0.792	22.9
Back side-17mm	RMC	1412/1732.4	1:1	0.597	0.01	24.65	25.50	1.216	0.726	22.9

Table 14: SAR of WCDMA Band IV for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Top side-19mm	1412/1732.4	0.819	0.815	1.005	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 81 of 140

8.2.5 SAR Result of WCDMA Band V

W B5 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.148	0.01	24.18	25.50	1.355	0.201	22.2
Left tilted	RMC	4182/836.4	1:1	0.075	0.10	24.18	25.50	1.355	0.102	22.2
Right cheek	RMC	4182/836.4	1:1	0.184	0.02	24.18	25.50	1.355	0.249	22.2
Right tilted	RMC	4182/836.4	1:1	0.115	0.02	24.18	25.50	1.355	0.156	22.2
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.202	0.06	24.18	25.50	1.355	0.274	22.2
Back side	RMC	4182/836.4	1:1	0.382	0.03	24.18	25.50	1.355	0.518	22.2
Left side	RMC	4182/836.4	1:1	0.125	0.03	24.18	25.50	1.355	0.169	22.2
Right side	RMC	4182/836.4	1:1	0.254	0.02	24.18	25.50	1.355	0.344	22.2
Bottom side	RMC	4182/836.4	1:1	0.349	0.04	24.18	25.50	1.355	0.473	22.2
Body-worn Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.202	0.06	24.18	25.50	1.355	0.274	22.2
Back side	RMC	4182/836.4	1:1	0.382	0.03	24.18	25.50	1.355	0.518	22.2
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.751	-0.18	23.56	24.50	1.242	0.932	22.2
Left cheek	RMC	4132/826.4	1:1	0.685	0.02	23.42	24.50	1.282	0.878	22.2
Left cheek	RMC	4233/846.6	1:1	0.739	0.09	23.55	24.50	1.245	0.920	22.2
Left tilted	RMC	4182/836.4	1:1	0.688	0.09	23.56	24.50	1.242	0.854	22.2
Left tilted	RMC	4132/826.4	1:1	0.604	0.08	23.42	24.50	1.282	0.775	22.2
Left tilted	RMC	4233/846.6	1:1	0.666	0.02	23.55	24.50	1.245	0.829	22.2
Right cheek	RMC	4182/836.4	1:1	0.200	0.09	23.56	24.50	1.242	0.248	22.2
Right tilted	RMC	4182/836.4	1:1	0.192	0.04	23.56	24.50	1.242	0.238	22.2
Hotspot (sensor on) Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.171	-0.01	23.56	24.50	1.242	0.212	22.2
Back side	RMC	4182/836.4	1:1	0.375	-0.07	23.56	24.50	1.242	0.466	22.2
Top side	RMC	4182/836.4	1:1	0.269	0.04	23.56	24.50	1.242	0.334	22.2
Hotspot (sensor off) Test data										
Front side-12mm	RMC	4182/836.4	1:1	0.094	0.02	24.42	25.50	1.282	0.121	22.2
Back side-17mm	RMC	4182/836.4	1:1	0.086	-0.04	24.42	25.50	1.282	0.110	22.2
Left side-10mm	RMC	4182/836.4	1:1	0.082	-0.01	24.42	25.50	1.282	0.105	22.2
Top side-19mm	RMC	4182/836.4	1:1	0.069	0.02	24.42	25.50	1.282	0.088	22.2
Body-worn Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.171	-0.01	23.56	24.50	1.242	0.212	22.2



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 82 of 140

Back side	RMC	4182/836.4	1:1	0.375	-0.07	23.56	24.50	1.242	0.466	22.2
Front side-12mm	RMC	4182/836.4	1:1	0.094	0.02	24.42	25.50	1.282	0.121	22.2
Back side-17mm	RMC	4182/836.4	1:1	0.086	-0.04	24.42	25.50	1.282	0.110	22.2

Table 15: SAR of WCDMA Band V for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 83 of 140

8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record											
Ant 0 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.121	0.01	23.98	25.00	1.265	0.153	22.9
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.084	0.02	23.98	25.00	1.265	0.106	22.9
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.176	0.00	23.98	25.00	1.265	0.223	22.9
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.091	-0.04	23.98	25.00	1.265	0.115	22.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.108	-0.05	23.23	24.00	1.194	0.129	22.9
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.078	0.01	23.23	24.00	1.194	0.093	22.9
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.135	0.03	23.23	24.00	1.194	0.161	22.9
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.074	0.04	23.23	24.00	1.194	0.088	22.9
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.196	-0.01	20.05	21.00	1.245	0.244	22.9
Back side	20	QPSK 1_0	18900/1880	1:1	0.337	0.04	20.05	21.00	1.245	0.419	22.9
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.355	0.09	20.05	21.00	1.245	0.442	22.9
Hotspot (sensor on) Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.211	0.05	20.03	21.00	1.250	0.264	22.9
Back side	20	QPSK 50_0	18900/1880	1:1	0.353	0.02	20.03	21.00	1.250	0.441	22.9
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.357	-0.03	20.03	21.00	1.250	0.446	22.9
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	18900/1880	1:1	0.261	-0.02	23.98	25.00	1.265	0.330	22.9
Back side-17mm	20	QPSK 1_0	18900/1880	1:1	0.293	0.04	23.98	25.00	1.265	0.371	22.9
Left side-10mm	20	QPSK 1_0	18900/1880	1:1	0.077	0.04	23.98	25.00	1.265	0.097	22.9
Right side-10mm	20	QPSK 1_0	18900/1880	1:1	0.086	-0.02	23.98	25.00	1.265	0.109	22.9
Bottom side-15mm	20	QPSK 1_0	18900/1880	1:1	0.316	0.06	23.98	25.00	1.265	0.400	22.9
Hotspot (sensor off) Test data(50%RB)											
Front side-12mm	20	QPSK 50_0	18900/1880	1:1	0.211	0.02	23.23	24.00	1.194	0.252	22.9
Back side-17mm	20	QPSK 50_0	18900/1880	1:1	0.247	-0.01	23.23	24.00	1.194	0.295	22.9
Left side-10mm	20	QPSK 50_0	18900/1880	1:1	0.086	0.07	23.23	24.00	1.194	0.103	22.9
Right side-10mm	20	QPSK 50_0	18900/1880	1:1	0.089	-0.04	23.23	24.00	1.194	0.106	22.9
Bottom side-15mm	20	QPSK 50_0	18900/1880	1:1	0.263	0.02	23.23	24.00	1.194	0.314	22.9
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.196	-0.01	20.05	21.00	1.245	0.244	22.9
Back side	20	QPSK 1_0	18900/1880	1:1	0.337	0.04	20.05	21.00	1.245	0.419	22.9
Front side-12mm	20	QPSK 1_0	18900/1880	1:1	0.261	-0.02	23.98	25.00	1.265	0.330	22.9
Back side-17mm	20	QPSK 1_0	18900/1880	1:1	0.293	0.04	23.98	25.00	1.265	0.371	22.9
Body-worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.211	0.05	20.03	21.00	1.250	0.264	22.9



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 84 of 140

Back side	20	QPSK 50_0	18900/1880	1:1	0.353	0.02	20.03	21.00	1.250	0.441	22.9
Front side-12mm	20	QPSK 50_0	18900/1880	1:1	0.211	0.02	23.23	24.00	1.194	0.252	22.9
Back side-17mm	20	QPSK 50_0	18900/1880	1:1	0.247	-0.01	23.23	24.00	1.194	0.295	22.9
Ant 4 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.322	0.04	14.81	15.50	1.172	0.377	22.9
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.413	0.08	14.81	15.50	1.172	0.484	22.9
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.459	0.04	14.81	15.50	1.172	0.538	22.9
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.585	0.08	14.81	15.50	1.172	0.686	22.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.346	0.08	14.67	15.50	1.211	0.419	22.9
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.450	0.03	14.67	15.50	1.211	0.545	22.9
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.484	0.02	14.67	15.50	1.211	0.586	22.9
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.619	0.04	14.67	15.50	1.211	0.749	22.9
Right tilted-ENDC	20	QPSK 50_0	18900/1880	1:1	0.388	0.05	13.51	14.50	1.256	0.487	22.9
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.262	0.06	17.73	18.50	1.194	0.313	22.9
Back side	20	QPSK 1_0	18900/1880	1:1	0.442	-0.03	17.73	18.50	1.194	0.528	22.9
Top side	20	QPSK 1_0	18900/1880	1:1	0.680	-0.01	17.73	18.50	1.194	0.812	22.9
Top side	20	QPSK 1_0	18700/1860	1:1	0.573	0.01	17.59	18.50	1.233	0.707	22.9
Top side	20	QPSK 1_0	19100/1900	1:1	0.796	0.06	17.49	18.50	1.262	1.004	22.9
Hotspot (sensor on) Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.272	0.09	17.61	18.50	1.227	0.334	22.9
Back side	20	QPSK 50_0	18900/1880	1:1	0.551	0.00	17.61	18.50	1.227	0.676	22.9
Top side	20	QPSK 50_0	18900/1880	1:1	0.701	0.03	17.61	18.50	1.227	0.860	22.9
Top side	20	QPSK 50_0	18700/1860	1:1	0.582	0.07	17.42	18.50	1.282	0.746	22.9
Top side	20	QPSK 50_0	19100/1900	1:1	0.806	-0.03	17.27	18.50	1.327	1.070	22.9
Top side-ENDC	20	QPSK 50_0	19100/1900	1:1	0.424	0.09	15.56	16.50	1.242	0.526	22.9
Hotspot (sensor on) Test data(Separate 10mm 100%RB)											
Top side	20	QPSK 100_0	18900/1880	1:1	0.688	-0.05	17.59	18.50	1.233	0.848	22.9
Top side	20	QPSK 100_0	18700/1860	1:1	0.579	0.07	17.47	18.50	1.268	0.734	22.9
Top side	20	QPSK 100_0	19100/1900	1:1	0.793	0.05	17.34	18.50	1.306	1.036	22.9
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	18900/1880	1:1	0.540	-0.05	22.26	23.00	1.186	0.640	22.9
Back side-17mm	20	QPSK 1_0	18900/1880	1:1	0.529	0.04	22.26	23.00	1.186	0.627	22.9
Left side-10mm	20	QPSK 1_0	18900/1880	1:1	0.135	0.03	22.26	23.00	1.186	0.160	22.9
Top side-19mm	20	QPSK 1_0	18900/1880	1:1	0.811	0.06	22.26	23.00	1.186	0.962	22.9
Top side-19mm	20	QPSK 1_0	18700/1860	1:1	0.723	0.01	22.18	23.00	1.208	0.873	22.9
Top side-19mm	20	QPSK 1_0	19100/1900	1:1	0.882	0.09	22.25	23.00	1.189	1.048	22.9
Hotspot (sensor off) Test data(50%RB)											



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 85 of 140

Front side-12mm	20	QPSK 50_0	18900/1880	1:1	0.546	-0.16	22.24	23.00	1.191	0.650	22.9
Back side-17mm	20	QPSK 50_0	18900/1880	1:1	0.531	0.02	22.24	23.00	1.191	0.633	22.9
Left side-10mm	20	QPSK 50_0	18900/1880	1:1	0.141	0.05	22.24	23.00	1.191	0.168	22.9
Top side-19mm	20	QPSK 50_0	18900/1880	1:1	0.816	0.12	22.24	23.00	1.191	0.972	22.9
Top side-19mm	20	QPSK 50_0	18700/1860	1:1	0.735	-0.12	22.16	23.00	1.213	0.892	22.9
Top side-19mm	20	QPSK 50_0	19100/1900	1:1	0.891	0.08	22.24	23.00	1.191	1.061	22.9
Top side-19mm-Repeat SAR	20	QPSK 50_0	19100/1900	1:1	0.887	0.05	22.24	23.00	1.191	1.057	22.9
Hotspot (sensor off) Test data(50%RB)											
Top side-19mm	20	QPSK 100_0	18900/1880	1:1	0.808	0.02	22.20	23.00	1.202	0.971	22.9
Top side-19mm	20	QPSK 100_0	18700/1860	1:1	0.717	-0.16	22.12	23.00	1.225	0.878	22.9
Top side-19mm	20	QPSK 100_0	19100/1900	1:1	0.877	0.07	22.18	23.00	1.208	1.059	22.9
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.262	0.06	17.73	18.50	1.194	0.313	22.9
Back side	20	QPSK 1_0	18900/1880	1:1	0.442	-0.03	17.73	18.50	1.194	0.528	22.9
Front side-12mm	20	QPSK 1_0	18900/1880	1:1	0.540	-0.05	22.26	23.00	1.186	0.640	22.9
Back side-17mm	20	QPSK 1_0	18900/1880	1:1	0.529	0.04	22.26	23.00	1.186	0.627	22.9
Body-worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.272	0.09	17.61	18.50	1.227	0.334	22.9
Back side	20	QPSK 50_0	18900/1880	1:1	0.551	-0.14	17.61	18.50	1.227	0.676	22.9
Back side-ENDC	20	QPSK 50_0	18900/1880	1:1	0.418	0.04	15.56	16.50	1.242	0.519	22.9
Front side-12mm	20	QPSK 50_0	18900/1880	1:1	0.546	-0.16	22.24	23.00	1.191	0.650	22.9
Back side-17mm	20	QPSK 50_0	18900/1880	1:1	0.531	0.02	22.24	23.00	1.191	0.633	22.9

Table 16: SAR of LTE Band 2 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Top side-19mm	19100/1900	0.891	0.887	1.005	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 86 of 140

8.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.173	-0.02	23.79	25.00	1.321	0.229	22.5
Left cheek - CA_7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.155	0.05	23.61	25.00	1.377	0.213	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.101	0.09	23.79	25.00	1.321	0.133	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.107	0.03	23.79	25.00	1.321	0.141	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.065	-0.01	23.79	25.00	1.321	0.086	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.152	0.06	22.66	24.00	1.361	0.207	22.5
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.039	-0.01	22.66	24.00	1.361	0.053	22.5
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.076	0.08	22.66	24.00	1.361	0.103	22.5
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.055	0.00	22.66	24.00	1.361	0.075	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.311	0.02	19.43	20.50	1.279	0.398	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.392	0.01	19.43	20.50	1.279	0.502	22.5
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.267	0.09	19.43	20.50	1.279	0.342	22.5
Hotspot (sensor on) Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.303	0.07	19.34	20.50	1.306	0.396	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.397	0.02	19.34	20.50	1.306	0.519	22.5
Back side - CA_7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.324	0.01	19.32	20.50	1.312	0.425	22.5
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.253	-0.03	19.34	20.50	1.306	0.330	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	21100/2535	1:1	0.539	0.07	23.79	25.00	1.321	0.712	22.5
Back side-17mm	20	QPSK 1_0	21100/2535	1:1	0.431	-0.15	23.79	25.00	1.321	0.569	22.5
Left side-10mm	20	QPSK 1_0	21100/2535	1:1	0.117	-0.04	23.79	25.00	1.321	0.155	22.5
Right side-10mm	20	QPSK 1_0	21100/2535	1:1	0.062	0.04	23.79	25.00	1.321	0.082	22.5
Bottom side-15mm	20	QPSK 1_0	21100/2535	1:1	0.202	0.06	23.79	25.00	1.321	0.267	22.5
Hotspot (sensor off) Test data(50%RB)											
Front side-12mm	20	QPSK 50_0	21100/2535	1:1	0.524	0.02	22.66	24.00	1.361	0.713	22.5
Back side-17mm	20	QPSK 50_0	21100/2535	1:1	0.406	0.01	22.66	24.00	1.361	0.553	22.5
Left side-10mm	20	QPSK 50_0	21100/2535	1:1	0.112	-0.03	22.66	24.00	1.361	0.152	22.5
Right side-10mm	20	QPSK 50_0	21100/2535	1:1	0.063	-0.05	22.66	24.00	1.361	0.086	22.5
Bottom side-15mm	20	QPSK 50_0	21100/2535	1:1	0.176	-0.08	22.66	24.00	1.361	0.240	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.311	0.02	19.43	20.50	1.279	0.398	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.392	0.01	19.43	20.50	1.279	0.502	22.5



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 87 of 140

Front side-12mm	20	QPSK 1_0	21100/2535	1:1	0.539	0.07	23.79	25.00	1.321	0.712	22.5
Back side-17mm	20	QPSK 1_0	21100/2535	1:1	0.431	-0.15	23.79	25.00	1.321	0.569	22.5
Body-worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.303	0.07	19.34	20.50	1.306	0.396	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.397	0.02	19.34	20.50	1.306	0.519	22.5
Front side-12mm	20	QPSK 50_0	21100/2535	1:1	0.524	0.02	22.66	24.00	1.361	0.713	22.5
Front side-12mm - CA_7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.465	-0.15	22.61	24.00	1.377	0.640	22.5
Back side-17mm	20	QPSK 50_0	21100/2535	1:1	0.406	0.01	22.66	24.00	1.361	0.553	22.5
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.307	0.06	17.93	18.50	1.140	0.350	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.380	-0.04	17.93	18.50	1.140	0.433	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.592	-0.09	17.93	18.50	1.140	0.675	22.5
Right cheek-ENDC A	20	QPSK 1_0	21100/2535	1:1	0.367	0.05	14.67	15.50	1.211	0.444	22.5
Right cheek - CA_7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.521	-0.13	17.90	18.50	1.148	0.598	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.465	0.02	17.93	18.50	1.140	0.530	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.292	-0.01	17.78	18.50	1.180	0.345	22.5
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.368	0.10	17.78	18.50	1.180	0.434	22.5
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.567	-0.02	17.78	18.50	1.180	0.669	22.5
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.462	0.04	17.78	18.50	1.180	0.545	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.315	0.08	17.93	18.50	1.140	0.359	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.463	0.06	17.93	18.50	1.140	0.528	22.5
Top side	20	QPSK 1_0	21100/2535	1:1	0.278	0.01	17.93	18.50	1.140	0.317	22.5
Hotspot (sensor on) Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.311	0.01	17.78	18.50	1.180	0.367	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.456	0.04	17.78	18.50	1.180	0.538	22.5
Top side	20	QPSK 50_0	21100/2535	1:1	0.289	0.05	17.78	18.50	1.180	0.341	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	21100/2535	1:1	0.305	0.05	24.21	25.00	1.199	0.366	22.5
Back side-17mm	20	QPSK 1_0	21100/2535	1:1	0.279	0.03	24.21	25.00	1.199	0.335	22.5
Left side-10mm	20	QPSK 1_0	21100/2535	1:1	0.600	-0.13	24.21	25.00	1.199	0.720	22.5
Left side-10mm-ENDC	20	QPSK 1_0	21100/2535	1:1	0.476	-0.04	22.01	22.50	1.119	0.533	22.5
Left side-10mm - CA_7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.497	0.05	24.18	25.00	1.208	0.600	22.5
Top side-19mm	20	QPSK 1_0	21100/2535	1:1	0.398	-0.04	24.21	25.00	1.199	0.477	22.5
Hotspot (sensor off) Test data(50%RB)											
Front side-12mm	20	QPSK 50_0	21100/2535	1:1	0.290	-0.04	23.32	24.00	1.169	0.339	22.5



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 88 of 140

Back side-17mm	20	QPSK 50_0	21100/2535	1:1	0.262	0.02	23.32	24.00	1.169	0.306	22.5
Left side-10mm	20	QPSK 50_0	21100/2535	1:1	0.477	0.09	23.32	24.00	1.169	0.558	22.5
Top side-19mm	20	QPSK 50_0	21100/2535	1:1	0.376	0.06	23.32	24.00	1.169	0.440	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.315	0.08	17.93	18.50	1.140	0.359	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.463	0.06	17.93	18.50	1.140	0.528	22.5
Front side-12mm	20	QPSK 1_0	21100/2535	1:1	0.305	0.05	24.21	25.00	1.199	0.366	22.5
Back side-17mm	20	QPSK 1_0	21100/2535	1:1	0.279	0.03	24.21	25.00	1.199	0.335	22.5
Body-worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.311	0.01	17.78	18.50	1.180	0.367	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.456	0.04	17.78	18.50	1.180	0.538	22.5
Back side - CA_7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.388	0.12	17.72	18.50	1.197	0.464	22.5
Back side-ENDC	20	QPSK 50_0	21100/2535	1:1	0.411	0.08	17.24	18.00	1.191	0.490	22.5
Front side-12mm	20	QPSK 50_0	21100/2535	1:1	0.290	-0.04	23.32	24.00	1.169	0.339	22.5
Back side-17mm	20	QPSK 50_0	21100/2535	1:1	0.262	0.02	23.32	24.00	1.169	0.306	22.5

Table 17: SAR of LTE Band 7 for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 89 of 140

8.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.078	0.08	23.89	25.00	1.291	0.101	22.6
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.000	0.00	23.89	25.00	1.291	0.000	22.6
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.088	-0.03	23.89	25.00	1.291	0.114	22.6
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.043	-0.04	23.89	25.00	1.291	0.056	22.6
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.059	0.00	23.06	24.00	1.242	0.073	22.6
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.000	0.10	23.06	24.00	1.242	0.000	22.6
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.065	0.04	23.06	24.00	1.242	0.081	22.6
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.000	-0.02	23.06	24.00	1.242	0.000	22.6
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.111	0.10	23.89	25.00	1.291	0.143	22.6
Back side	10	QPSK 1_0	23095/707.5	1:1	0.194	0.08	23.89	25.00	1.291	0.250	22.6
Left side	10	QPSK 1_0	23095/707.5	1:1	0.129	-0.04	23.89	25.00	1.291	0.167	22.6
Right side	10	QPSK 1_0	23095/707.5	1:1	0.193	-0.02	23.89	25.00	1.291	0.249	22.6
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.139	0.01	23.89	25.00	1.291	0.179	22.6
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.086	0.04	23.06	24.00	1.242	0.107	22.6
Back side	10	QPSK 25_0	23095/707.5	1:1	0.155	0.05	23.06	24.00	1.242	0.192	22.6
Left side	10	QPSK 25_0	23095/707.5	1:1	0.100	-0.05	23.06	24.00	1.242	0.124	22.6
Right side	10	QPSK 25_0	23095/707.5	1:1	0.177	0.05	23.06	24.00	1.242	0.220	22.6
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.099	0.09	23.06	24.00	1.242	0.123	22.6
Body-worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.111	0.10	23.89	25.00	1.291	0.143	22.6
Back side	10	QPSK 1_0	23095/707.5	1:1	0.194	-0.18	23.89	25.00	1.291	0.250	22.6
Body-worn Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.086	0.04	23.06	24.00	1.242	0.107	22.6
Back side	10	QPSK 25_0	23095/707.5	1:1	0.155	0.05	23.06	24.00	1.242	0.192	22.6
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.319	-0.04	23.95	25.00	1.274	0.406	22.6
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.325	0.04	23.95	25.00	1.274	0.414	22.6
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.348	-0.19	23.95	25.00	1.274	0.443	22.6
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.339	-0.03	23.95	25.00	1.274	0.432	22.6
Head Test Data(50%RB)											



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 90 of 140

Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.265	0.09	23.08	24.00	1.236	0.328	22.6
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.260	0.03	23.08	24.00	1.236	0.321	22.6
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.289	0.09	23.08	24.00	1.236	0.357	22.6
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.292	-0.02	23.08	24.00	1.236	0.361	22.6
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.085	-0.06	23.95	25.00	1.274	0.108	22.6
Back side	10	QPSK 1_0	23095/707.5	1:1	0.144	-0.02	23.95	25.00	1.274	0.183	22.6
Left side	10	QPSK 1_0	23095/707.5	1:1	0.093	0.06	23.95	25.00	1.274	0.118	22.6
Top side	10	QPSK 1_0	23095/707.5	1:1	0.117	0.01	23.95	25.00	1.274	0.149	22.6
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.070	0.01	23.08	24.00	1.236	0.087	22.6
Back side	10	QPSK 25_0	23095/707.5	1:1	0.128	-0.04	23.08	24.00	1.236	0.158	22.6
Left side	10	QPSK 25_0	23095/707.5	1:1	0.073	0.09	23.08	24.00	1.236	0.090	22.6
Top side	10	QPSK 25_0	23095/707.5	1:1	0.098	0.08	23.08	24.00	1.236	0.121	22.6
Body-worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.085	-0.06	23.95	25.00	1.274	0.108	22.6
Back side	10	QPSK 1_0	23095/707.5	1:1	0.144	-0.02	23.95	25.00	1.274	0.183	22.6
Body-worn Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.070	0.01	23.08	24.00	1.236	0.087	22.6
Back side	10	QPSK 25_0	23095/707.5	1:1	0.128	-0.04	23.08	24.00	1.236	0.158	22.6

Table 18: SAR of LTE Band 12 for Head and Body.


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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 91 of 140

8.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	23230/782	1:1	0.119	-0.02	23.87	25.00	1.297	0.154	22.6
Left tilted	10	QPSK 1_0	23230/782	1:1	0.076	0.06	23.87	25.00	1.297	0.099	22.6
Right cheek	10	QPSK 1_0	23230/782	1:1	0.146	-0.02	23.87	25.00	1.297	0.189	22.6
Right tilted	10	QPSK 1_0	23230/782	1:1	0.086	0.05	23.87	25.00	1.297	0.112	22.6
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.096	0.03	23.08	24.00	1.236	0.119	22.6
Left tilted	10	QPSK 25_0	23230/782	1:1	0.060	-0.04	23.08	24.00	1.236	0.074	22.6
Right cheek	10	QPSK 25_0	23230/782	1:1	0.117	0.05	23.08	24.00	1.236	0.145	22.6
Right tilted	10	QPSK 25_0	23230/782	1:1	0.075	0.10	23.08	24.00	1.236	0.093	22.6
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.123	-0.02	23.87	25.00	1.297	0.160	22.6
Back side	10	QPSK 1_0	23230/782	1:1	0.248	0.09	23.87	25.00	1.297	0.322	22.6
Left side	10	QPSK 1_0	23230/782	1:1	0.097	0.07	23.87	25.00	1.297	0.126	22.6
Right side	10	QPSK 1_0	23230/782	1:1	0.202	-0.02	23.87	25.00	1.297	0.262	22.6
Bottom side	10	QPSK 1_0	23230/782	1:1	0.192	-0.01	23.87	25.00	1.297	0.249	22.6
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.096	0.05	23.08	24.00	1.236	0.119	22.6
Back side	10	QPSK 25_0	23230/782	1:1	0.174	-0.01	23.08	24.00	1.236	0.215	22.6
Left side	10	QPSK 25_0	23230/782	1:1	0.077	-0.02	23.08	24.00	1.236	0.095	22.6
Right side	10	QPSK 25_0	23230/782	1:1	0.158	0.06	23.08	24.00	1.236	0.195	22.6
Bottom side	10	QPSK 25_0	23230/782	1:1	0.151	-0.01	23.08	24.00	1.236	0.187	22.6
Body-worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.123	-0.02	23.87	25.00	1.297	0.160	22.6
Back side	10	QPSK 1_0	23230/782	1:1	0.248	0.09	23.87	25.00	1.297	0.322	22.6
Body-worn Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.096	0.05	23.08	24.00	1.236	0.119	22.6
Back side	10	QPSK 25_0	23230/782	1:1	0.174	-0.01	23.08	24.00	1.236	0.215	22.6
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	23230/782	1:1	0.444	-0.05	23.98	25.00	1.265	0.562	22.6
Left tilted	10	QPSK 1_0	23230/782	1:1	0.420	0.03	23.98	25.00	1.265	0.531	22.6
Right cheek	10	QPSK 1_0	23230/782	1:1	0.466	-0.04	23.98	25.00	1.265	0.589	22.6
Right tilted	10	QPSK 1_0	23230/782	1:1	0.420	0.06	23.98	25.00	1.265	0.531	22.6
Head Test Data(50%RB)											



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 92 of 140

Left cheek	10	QPSK 25_0	23230/782	1:1	0.351	0.06	22.92	24.00	1.282	0.450	22.6
Left tilted	10	QPSK 25_0	23230/782	1:1	0.320	0.08	22.92	24.00	1.282	0.410	22.6
Right cheek	10	QPSK 25_0	23230/782	1:1	0.363	0.05	22.92	24.00	1.282	0.465	22.6
Right tilted	10	QPSK 25_0	23230/782	1:1	0.321	0.09	22.92	24.00	1.282	0.412	22.6
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.139	0.03	23.98	25.00	1.265	0.176	22.6
Back side	10	QPSK 1_0	23230/782	1:1	0.208	-0.06	23.98	25.00	1.265	0.263	22.6
Left side	10	QPSK 1_0	23230/782	1:1	0.080	0.01	23.98	25.00	1.265	0.101	22.6
Top side	10	QPSK 1_0	23230/782	1:1	0.199	0.02	23.98	25.00	1.265	0.252	22.6
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.088	0.01	22.92	24.00	1.282	0.113	22.6
Back side	10	QPSK 25_0	23230/782	1:1	0.177	0.07	22.92	24.00	1.282	0.227	22.6
Left side	10	QPSK 25_0	23230/782	1:1	0.059	0.05	22.92	24.00	1.282	0.076	22.6
Top side	10	QPSK 25_0	23230/782	1:1	0.145	0.08	22.92	24.00	1.282	0.186	22.6
Body-worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.139	0.03	23.98	25.00	1.265	0.176	22.6
Back side	10	QPSK 1_0	23230/782	1:1	0.208	-0.06	23.98	25.00	1.265	0.263	22.6
Body-worn Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.088	0.01	22.92	24.00	1.282	0.113	22.6
Back side	10	QPSK 25_0	23230/782	1:1	0.177	0.07	22.92	24.00	1.282	0.227	22.6

Table 19: SAR of LTE Band 13 for Head and Body.



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 93 of 140

8.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.110	0.07	23.84	25.50	1.466	0.161	22.2
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.068	0.02	23.84	25.50	1.466	0.100	22.2
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.158	0.05	23.84	25.50	1.466	0.232	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.073	0.07	23.84	25.50	1.466	0.107	22.2
Head Test Data(50%RB)											
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.105	0.09	22.97	24.50	1.422	0.149	22.2
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.052	0.07	22.97	24.50	1.422	0.074	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.119	-0.03	22.97	24.50	1.422	0.169	22.2
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.061	0.04	22.97	24.50	1.422	0.087	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.164	0.01	23.84	25.50	1.466	0.240	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.279	0.06	23.84	25.50	1.466	0.409	22.2
Left side	15	QPSK 1_0	26865/831.5	1:1	0.080	0.02	23.84	25.50	1.466	0.117	22.2
Right side	15	QPSK 1_0	26865/831.5	1:1	0.151	-0.04	23.84	25.50	1.466	0.221	22.2
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.207	0.00	23.84	25.50	1.466	0.303	22.2
Hotspot Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.141	0.01	22.97	24.50	1.422	0.201	22.2
Back side	15	QPSK 36_0	26865/831.5	1:1	0.236	-0.01	22.97	24.50	1.422	0.336	22.2
Left side	15	QPSK 36_0	26865/831.5	1:1	0.067	0.01	22.97	24.50	1.422	0.095	22.2
Right side	15	QPSK 36_0	26865/831.5	1:1	0.129	0.00	22.97	24.50	1.422	0.183	22.2
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.181	-0.04	22.97	24.50	1.422	0.257	22.2
Body-worn Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.164	0.01	23.84	25.50	1.466	0.240	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.279	0.06	23.84	25.50	1.466	0.409	22.2
Body-worn Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.141	0.01	22.97	24.50	1.422	0.201	22.2
Back side	15	QPSK 36_0	26865/831.5	1:1	0.236	-0.01	22.97	24.50	1.422	0.336	22.2
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.587	-0.01	23.90	25.50	1.445	0.848	22.2
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.565	0.08	23.90	25.50	1.445	0.817	22.2
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.588	-0.07	23.90	25.50	1.445	0.850	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.548	0.10	23.90	25.50	1.445	0.792	22.2
Head Test Data(50%RB)											



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 94 of 140

Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.482	0.08	22.93	24.50	1.435	0.692	22.2
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.458	0.02	22.93	24.50	1.435	0.657	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.489	0.08	22.93	24.50	1.435	0.702	22.2
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.453	0.01	22.93	24.50	1.435	0.650	22.2
Head Test Data(100%RB)											
Left cheek	15	QPSK 75_0	26865/831.5	1:1	0.455	0.05	22.97	24.50	1.422	0.647	22.2
Left tilted	15	QPSK 75_0	26865/831.5	1:1	0.431	-0.16	22.97	24.50	1.422	0.613	22.2
Right cheek	15	QPSK 75_0	26865/831.5	1:1	0.462	0.05	22.97	24.50	1.422	0.657	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.208	-0.06	23.90	25.50	1.445	0.301	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.329	-0.09	23.90	25.50	1.445	0.476	22.2
Left side	15	QPSK 1_0	26865/831.5	1:1	0.088	0.01	23.90	25.50	1.445	0.127	22.2
Top side	15	QPSK 1_0	26865/831.5	1:1	0.268	0.02	23.90	25.50	1.445	0.387	22.2
Hotspot Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.154	0.06	22.93	24.50	1.435	0.221	22.2
Back side	15	QPSK 36_0	26865/831.5	1:1	0.313	0.07	22.93	24.50	1.435	0.449	22.2
Left side	15	QPSK 36_0	26865/831.5	1:1	0.065	0.02	22.93	24.50	1.435	0.093	22.2
Top side	15	QPSK 36_0	26865/831.5	1:1	0.240	0.01	22.93	24.50	1.435	0.345	22.2
Body-worn Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.208	-0.06	23.90	25.50	1.445	0.301	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.329	-0.09	23.90	25.50	1.445	0.476	22.2
Body-worn Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.154	0.06	22.93	24.50	1.435	0.221	22.2
Back side	15	QPSK 36_0	26865/831.5	1:1	0.313	0.07	22.93	24.50	1.435	0.449	22.2

Table 20: SAR of LTE Band 26 for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 95 of 140

8.2.11 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.103	0.05	23.53	25.00	1.403	0.144	22.5
Left cheek - CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.085	0.03	23.37	25.00	1.455	0.124	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.071	0.07	23.53	25.00	1.403	0.100	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.088	0.02	23.53	25.00	1.403	0.123	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.059	-0.02	23.53	25.00	1.403	0.083	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.089	0.07	22.46	24.00	1.426	0.127	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.059	0.08	22.46	24.00	1.426	0.084	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.065	0.08	22.46	24.00	1.426	0.093	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.051	0.05	22.46	24.00	1.426	0.073	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.261	0.03	20.45	22.00	1.429	0.373	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.325	0.06	20.45	22.00	1.429	0.464	22.5
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.234	0.04	20.45	22.00	1.429	0.334	22.5
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.271	0.05	20.38	22.00	1.452	0.394	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.343	0.04	20.38	22.00	1.452	0.498	22.5
Back side - CA_38C	20	QPSK 50_0	37901+38099/2585.1+2604.9	1:1.58	0.288	0.02	20.11	21.50	1.377	0.397	22.5
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.225	-0.04	20.38	22.00	1.452	0.327	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	40620/2593	1:1.58	0.330	-0.13	23.53	25.00	1.403	0.463	22.5
Back side-17mm	20	QPSK 1_0	40620/2593	1:1.58	0.301	0.05	23.53	25.00	1.403	0.422	22.5
Left side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.087	0.02	23.53	25.00	1.403	0.122	22.5
Right side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.000	0.06	23.53	25.00	1.403	0.000	22.5
Bottom side-15mm	20	QPSK 1_0	40620/2593	1:1.58	0.181	0.07	23.53	25.00	1.403	0.254	22.5
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_0	40620/2593	1:1.58	0.285	-0.09	22.46	24.00	1.426	0.406	22.5
Back side-17mm	20	QPSK 50_0	40620/2593	1:1.58	0.251	0.05	22.46	24.00	1.426	0.358	22.5
Left side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.091	0.09	22.46	24.00	1.426	0.130	22.5
Right side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.000	-0.05	22.46	24.00	1.426	0.000	22.5
Bottom side-15mm	20	QPSK 50_0	40620/2593	1:1.58	0.122	0.07	22.46	24.00	1.426	0.174	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.261	0.03	20.45	22.00	1.429	0.373	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.325	0.06	20.45	22.00	1.429	0.464	22.5



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 96 of 140

Front side-12mm	20	QPSK 1_0	40620/2593	1:1.58	0.330	-0.13	23.53	25.00	1.403	0.463	22.5
Back side-17mm	20	QPSK 1_0	40620/2593	1:1.58	0.301	0.05	23.53	25.00	1.403	0.422	22.5
Body-worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.271	0.05	20.38	22.00	1.452	0.394	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.343	0.04	20.38	22.00	1.452	0.498	22.5
Back side - CA_38C	20	QPSK 50_0	37901+38099/2585.1+2604.9	1:1.58	0.288	0.02	20.11	21.50	1.377	0.397	22.5
Front side-12mm	20	QPSK 50_0	40620/2593	1:1.58	0.285	-0.09	22.46	24.00	1.426	0.406	22.5
Back side-17mm	20	QPSK 50_0	40620/2593	1:1.58	0.251	0.05	22.46	24.00	1.426	0.358	22.5
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.245	0.07	18.15	19.00	1.216	0.298	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.341	0.09	18.15	19.00	1.216	0.415	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.483	-0.03	18.15	19.00	1.216	0.587	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.417	0.08	18.15	19.00	1.216	0.507	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.223	-0.04	17.99	19.00	1.262	0.281	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.315	-0.04	17.99	19.00	1.262	0.397	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.482	-0.02	17.99	19.00	1.262	0.608	22.5
Right cheek - CA_38C	20	QPSK 50_0	37901+38099/2585.1+2604.9	1:1.58	0.417	0.13	17.98	19.00	1.265	0.527	22.5
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.426	-0.06	17.80	19.00	1.318	0.562	22.5
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.439	0.01	17.78	19.00	1.324	0.581	22.5
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.452	0.08	17.75	19.00	1.334	0.603	22.5
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.445	0.05	17.69	19.00	1.352	0.602	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.407	0.09	17.99	19.00	1.262	0.514	22.5
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.462	0.11	17.93	19.00	1.279	0.591	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.109	-0.06	18.15	19.00	1.216	0.133	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.131	0.01	18.15	19.00	1.216	0.159	22.5
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.207	0.03	18.15	19.00	1.216	0.252	22.5
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.108	0.05	17.99	19.00	1.262	0.136	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.166	0.09	17.99	19.00	1.262	0.209	22.5
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.214	-0.08	17.99	19.00	1.262	0.270	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	40620/2593	1:1.58	0.267	0.05	23.81	25.00	1.315	0.351	22.5
Back side-17mm	20	QPSK 1_0	40620/2593	1:1.58	0.179	0.01	23.81	25.00	1.315	0.235	22.5
Left side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.228	-0.07	23.81	25.00	1.315	0.300	22.5



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 97 of 140

Top side-19mm	20	QPSK 1_0	40620/2593	1:1.58	0.287	0.06	23.81	25.00	1.315	0.377	22.5
Top side-19mm - CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.192	0.02	23.79	25.00	1.321	0.254	22.5
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_0	40620/2593	1:1.58	0.219	0.09	22.81	24.00	1.315	0.288	22.5
Back side-17mm	20	QPSK 50_0	40620/2593	1:1.58	0.125	-0.12	22.81	24.00	1.315	0.164	22.5
Left side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.183	0.04	22.81	24.00	1.315	0.241	22.5
Top side-19mm	20	QPSK 50_0	40620/2593	1:1.58	0.226	0.01	22.81	24.00	1.315	0.297	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.109	-0.06	18.15	19.00	1.216	0.133	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.131	0.01	18.15	19.00	1.216	0.159	22.5
Front side-12mm	20	QPSK 1_0	40620/2593	1:1.58	0.267	0.05	23.81	25.00	1.315	0.351	22.5
Front side-12mm - CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.173	0.08	23.79	25.00	1.321	0.229	22.5
Back side-17mm	20	QPSK 1_0	40620/2593	1:1.58	0.179	0.01	23.81	25.00	1.315	0.235	22.5
Body-worn Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.108	0.05	17.99	19.00	1.262	0.136	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.166	0.09	17.99	19.00	1.262	0.209	22.5
Front side-12mm	20	QPSK 50_0	40620/2593	1:1.58	0.219	0.09	22.81	24.00	1.315	0.288	22.5
Back side-17mm	20	QPSK 50_0	40620/2593	1:1.58	0.125	-0.12	22.81	24.00	1.315	0.164	22.5

Table 21: SAR of LTE Band 41 for Head and Body.

Note: LTE B38 Intra-band U-L CA test at the worst case of LTE B41.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 98 of 140

8.2.1 SAR Result of LTE Band66

LTE Band 66 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.079	0.03	24.18	25.50	1.355	0.107	22.9
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.059	0.07	24.18	25.50	1.355	0.080	22.9
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.121	-0.01	24.18	25.50	1.355	0.164	22.9
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.061	0.07	24.18	25.50	1.355	0.083	22.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.063	0.08	23.36	24.50	1.300	0.082	22.9
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.048	0.08	23.36	24.50	1.300	0.062	22.9
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.094	-0.05	23.36	24.50	1.300	0.122	22.9
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.051	0.03	23.36	24.50	1.300	0.066	22.9
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.179	-0.01	20.32	21.50	1.312	0.235	22.9
Back side	20	QPSK 1_0	132322/1745	1:1	0.422	0.08	20.32	21.50	1.312	0.554	22.9
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.554	0.02	20.32	21.50	1.312	0.727	22.9
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.191	-0.04	20.24	21.50	1.337	0.255	22.9
Back side	20	QPSK 50_0	132322/1745	1:1	0.432	0.05	20.24	21.50	1.337	0.577	22.9
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.576	-0.01	20.24	21.50	1.337	0.770	22.9
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	132322/1745	1:1	0.211	0.08	24.18	25.50	1.355	0.286	22.9
Back side-17mm	20	QPSK 1_0	132322/1745	1:1	0.302	-0.13	24.18	25.50	1.355	0.409	22.9
Left side-10mm	20	QPSK 1_0	132322/1745	1:1	0.058	0.03	24.18	25.50	1.355	0.079	22.9
Right side-10mm	20	QPSK 1_0	132322/1745	1:1	0.065	-0.01	24.18	25.50	1.355	0.088	22.9
Bottom side-15mm	20	QPSK 1_0	132322/1745	1:1	0.425	0.02	24.18	25.50	1.355	0.576	22.9
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_0	132322/1745	1:1	0.204	0.04	23.36	24.50	1.300	0.265	22.9
Back side-17mm	20	QPSK 50_0	132322/1745	1:1	0.296	-0.10	23.36	24.50	1.300	0.385	22.9
Left side-10mm	20	QPSK 50_0	132322/1745	1:1	0.056	0.06	23.36	24.50	1.300	0.073	22.9
Right side-10mm	20	QPSK 50_0	132322/1745	1:1	0.069	0.01	23.36	24.50	1.300	0.090	22.9
Bottom side-15mm	20	QPSK 50_0	132322/1745	1:1	0.408	0.08	23.36	24.50	1.300	0.530	22.9
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.179	-0.01	20.32	21.50	1.312	0.235	22.9
Back side	20	QPSK 1_0	132322/1745	1:1	0.422	0.08	20.32	21.50	1.312	0.554	22.9
Front side-12mm	20	QPSK 1_0	132322/1745	1:1	0.211	0.08	24.18	25.50	1.355	0.286	22.9
Back side-17mm	20	QPSK 1_0	132322/1745	1:1	0.302	-0.13	24.18	25.50	1.355	0.409	22.9
Body-worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.191	-0.04	20.24	21.50	1.337	0.255	22.9
Back side	20	QPSK 50_0	132322/1745	1:1	0.432	-0.16	20.24	21.50	1.337	0.577	22.9



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 99 of 140

Front side-12mm	20	QPSK 50_0	132322/1745	1:1	0.204	0.04	23.36	24.50	1.300	0.265	22.9
Back side-17mm	20	QPSK 50_0	132322/1745	1:1	0.296	-0.10	23.36	24.50	1.300	0.385	22.9
Ant 4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.310	-0.03	14.29	15.50	1.321	0.410	22.9
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.359	0.03	14.29	15.50	1.321	0.474	22.9
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.376	0.02	14.29	15.50	1.321	0.497	22.9
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.461	0.06	14.29	15.50	1.321	0.609	22.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.314	0.10	14.25	15.50	1.334	0.419	22.9
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.380	0.03	14.25	15.50	1.334	0.507	22.9
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.400	-0.04	14.25	15.50	1.334	0.533	22.9
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.478	0.08	14.25	15.50	1.334	0.637	22.9
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.263	0.03	18.02	19.00	1.253	0.330	22.9
Back side	20	QPSK 1_0	132322/1745	1:1	0.375	-0.01	18.02	19.00	1.253	0.470	22.9
Top side	20	QPSK 1_0	132322/1745	1:1	0.579	0.07	18.02	19.00	1.253	0.726	22.9
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.253	0.04	17.93	19.00	1.279	0.324	22.9
Back side	20	QPSK 50_0	132322/1745	1:1	0.432	0.10	17.93	19.00	1.279	0.553	22.9
Top side	20	QPSK 50_0	132322/1745	1:1	0.607	-0.08	17.93	19.00	1.279	0.777	22.9
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	132322/1745	1:1	0.616	-0.02	24.38	25.50	1.294	0.797	22.9
Back side-17mm	20	QPSK 1_0	132322/1745	1:1	0.577	0.06	24.38	25.50	1.294	0.747	22.9
Left side-10mm	20	QPSK 1_0	132322/1745	1:1	0.122	0.08	24.38	25.50	1.294	0.158	22.9
Top side-19mm	20	QPSK 1_0	132322/1745	1:1	0.746	0.02	24.38	25.50	1.294	0.965	22.9
Top side-19mm	20	QPSK 1_0	132072/1720	1:1	0.601	-0.02	24.27	25.50	1.327	0.798	22.9
Top side-19mm	20	QPSK 1_0	132572/1770	1:1	0.689	0.07	24.22	25.50	1.343	0.925	22.9
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_0	132322/1745	1:1	0.585	-0.06	23.20	24.50	1.349	0.789	22.9
Back side-17mm	20	QPSK 50_0	132322/1745	1:1	0.552	0.02	23.20	24.50	1.349	0.745	22.9
Left side-10mm	20	QPSK 50_0	132322/1745	1:1	0.100	0.01	23.20	24.50	1.349	0.135	22.9
Top side-19mm	20	QPSK 50_0	132322/1745	1:1	0.709	0.13	23.20	24.50	1.349	0.956	22.9
Top side-19mm	20	QPSK 50_0	132072/1720	1:1	0.583	0.04	23.17	24.50	1.358	0.792	22.9
Top side-19mm	20	QPSK 50_0	132572/1770	1:1	0.671	0.07	23.29	24.50	1.321	0.887	22.9
Hotspot (sensor off) Test data(50RB)											
Top side-19mm	20	QPSK 100_0	132322/1745	1:1	0.711	-0.07	23.18	24.50	1.355	0.964	22.9
Top side-19mm	20	QPSK 100_0	132072/1720	1:1	0.589	0.02	23.12	24.50	1.374	0.809	22.9
Top side-19mm	20	QPSK 100_0	132572/1770	1:1	0.682	0.10	23.28	24.50	1.324	0.903	22.9
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.263	0.03	18.02	19.00	1.253	0.330	22.9



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 100 of 140

Back side	20	QPSK 1_0	132322/1745	1:1	0.375	-0.01	18.02	19.00	1.253	0.470	22.9
Front side-12mm	20	QPSK 1_0	132322/1745	1:1	0.616	-0.02	24.38	25.50	1.294	0.797	22.9
Back side-17mm	20	QPSK 1_0	132322/1745	1:1	0.577	0.06	24.38	25.50	1.294	0.747	22.9
Body-worn Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.253	0.04	17.93	19.00	1.279	0.324	22.9
Back side	20	QPSK 50_0	132322/1745	1:1	0.432	0.10	17.93	19.00	1.279	0.553	22.9
Front side-12mm	20	QPSK 50_0	132322/1745	1:1	0.585	-0.06	23.20	24.50	1.349	0.789	22.9
Back side-17mm	20	QPSK 50_0	132322/1745	1:1	0.552	0.02	23.20	24.50	1.349	0.745	22.9

Table 22: SAR of LTE Band 66 for Head and Body.



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8.2.2 SAR Result of 5G NR n5

SA N5 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.089	-0.01	24.29	25.50	1.321	0.118	22.2
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.047	0.06	24.29	25.50	1.321	0.062	22.2
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.113	0.12	24.29	25.50	1.321	0.149	22.2
Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.060	0.05	24.29	25.50	1.321	0.079	22.2
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.102	-0.04	24.43	25.50	1.279	0.130	22.2
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.050	0.07	24.43	25.50	1.279	0.064	22.2
Right cheek	20	QPSK 50_28	167300/836.5	1:1	0.120	0.05	24.43	25.50	1.279	0.154	22.2
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.058	-0.01	24.43	25.50	1.279	0.074	22.2
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.121	0.09	23.23	24.50	1.340	0.162	22.2
Back side	20	QPSK 1_1	167300/836.5	1:1	0.253	-0.04	23.23	24.50	1.340	0.339	22.2
Bottom side	20	QPSK 1_1	167300/836.5	1:1	0.212	-0.01	23.23	24.50	1.340	0.284	22.2
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.143	-0.04	23.40	24.50	1.288	0.184	22.2
Back side	20	QPSK 50_28	167300/836.5	1:1	0.275	0.08	23.40	24.50	1.288	0.354	22.2
Bottom side	20	QPSK 50_28	167300/836.5	1:1	0.231	0.00	23.40	24.50	1.288	0.298	22.2
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_1	167300/836.5	1:1	0.101	0.02	24.29	25.50	1.321	0.133	22.2
Back side-17mm	20	QPSK 1_1	167300/836.5	1:1	0.234	0.06	24.29	25.50	1.321	0.309	22.2
Left side-10mm	20	QPSK 1_1	167300/836.5	1:1	0.067	0.04	24.29	25.50	1.321	0.089	22.2
Right side-10mm	20	QPSK 1_1	167300/836.5	1:1	0.107	0.04	24.29	25.50	1.321	0.141	22.2
Bottom side-15mm	20	QPSK 1_1	167300/836.5	1:1	0.167	0.07	24.29	25.50	1.321	0.221	22.2
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_28	167300/836.5	1:1	0.122	0.05	24.43	25.50	1.279	0.156	22.2
Back side-17mm	20	QPSK 50_28	167300/836.5	1:1	0.241	0.09	24.43	25.50	1.279	0.308	22.2
Left side-10mm	20	QPSK 50_28	167300/836.5	1:1	0.067	0.00	24.43	25.50	1.279	0.086	22.2
Right side-10mm	20	QPSK 50_28	167300/836.5	1:1	0.112	0.04	24.43	25.50	1.279	0.143	22.2
Bottom side-15mm	20	QPSK 50_28	167300/836.5	1:1	0.186	0.04	24.43	25.50	1.279	0.238	22.2
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.121	0.09	23.23	24.50	1.340	0.162	22.2
Back side	20	QPSK 1_1	167300/836.5	1:1	0.253	-0.04	23.23	24.50	1.340	0.339	22.2
Front side-12mm	20	QPSK 1_1	167300/836.5	1:1	0.101	0.02	24.29	25.50	1.321	0.133	22.2
Back side-17mm	20	QPSK 1_1	167300/836.5	1:1	0.234	0.06	24.29	25.50	1.321	0.309	22.2
Body-worn Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.143	-0.04	23.40	24.50	1.288	0.184	22.2
Back side	20	QPSK 50_28	167300/836.5	1:1	0.275	0.08	23.40	24.50	1.288	0.354	22.2
Front side-12mm	20	QPSK 50_28	167300/836.5	1:1	0.122	0.05	24.43	25.50	1.279	0.156	22.2
Back side-17mm	20	QPSK 50_28	167300/836.5	1:1	0.241	0.09	24.43	25.50	1.279	0.308	22.2



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 102 of 140

Ant 4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.584	0.04	23.55	24.50	1.245	0.727	22.2
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.543	0.01	23.55	24.50	1.245	0.676	22.2
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.609	0.01	23.55	24.50	1.245	0.758	22.2
Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.571	0.08	23.55	24.50	1.245	0.711	22.2
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.642	-0.03	23.56	24.50	1.242	0.797	22.2
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.594	0.09	23.56	24.50	1.242	0.738	22.2
Right cheek	20	QPSK 50_28	167300/836.5	1:1	0.652	-0.02	23.56	24.50	1.242	0.810	22.2
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.599	0.08	23.56	24.50	1.242	0.744	22.2
Head Test data(100%RB)											
Right cheek	20	QPSK 100_0	167300/836.5	1:1	0.615	0.12	23.37	24.50	1.297	0.798	22.2
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.131	-0.02	23.55	24.50	1.245	0.163	22.2
Back side	20	QPSK 1_1	167300/836.5	1:1	0.276	0.14	23.55	24.50	1.245	0.343	22.2
Top side	20	QPSK 1_1	167300/836.5	1:1	0.214	-0.01	23.55	24.50	1.245	0.266	22.2
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.139	0.12	23.56	24.50	1.242	0.173	22.2
Back side	20	QPSK 50_28	167300/836.5	1:1	0.326	0.10	23.56	24.50	1.242	0.405	22.2
Top side	20	QPSK 50_28	167300/836.5	1:1	0.204	0.08	23.56	24.50	1.242	0.253	22.2
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_1	167300/836.5	1:1	0.098	0.02	24.44	25.50	1.276	0.125	22.2
Back side-17mm	20	QPSK 1_1	167300/836.5	1:1	0.116	0.09	24.44	25.50	1.276	0.148	22.2
Left side-10mm	20	QPSK 1_1	167300/836.5	1:1	0.061	0.01	24.44	25.50	1.276	0.078	22.2
Top side-19mm	20	QPSK 1_1	167300/836.5	1:1	0.072	-0.11	24.44	25.50	1.276	0.092	22.2
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_28	167300/836.5	1:1	0.134	0.02	24.59	25.50	1.233	0.165	22.2
Back side-17mm	20	QPSK 50_28	167300/836.5	1:1	0.256	0.05	24.59	25.50	1.233	0.316	22.2
Left side-10mm	20	QPSK 50_28	167300/836.5	1:1	0.056	0.15	24.59	25.50	1.233	0.069	22.2
Top side-19mm	20	QPSK 50_28	167300/836.5	1:1	0.085	0.09	24.59	25.50	1.233	0.105	22.2
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.131	-0.02	23.55	24.50	1.245	0.163	22.2
Back side	20	QPSK 1_1	167300/836.5	1:1	0.276	0.14	23.55	24.50	1.245	0.343	22.2
Front side-12mm	20	QPSK 1_1	167300/836.5	1:1	0.098	0.02	24.44	25.50	1.276	0.125	22.2
Back side-17mm	20	QPSK 1_1	167300/836.5	1:1	0.116	0.09	24.44	25.50	1.276	0.148	22.2
Body-worn Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.139	0.12	23.56	24.50	1.242	0.173	22.2
Back side	20	QPSK 50_28	167300/836.5	1:1	0.326	0.10	23.56	24.50	1.242	0.405	22.2
Front side-12mm	20	QPSK 50_28	167300/836.5	1:1	0.134	0.02	24.59	25.50	1.233	0.165	22.2
Back side-17mm	20	QPSK 50_28	167300/836.5	1:1	0.256	0.05	24.59	25.50	1.233	0.316	22.2

Table 23: SAR of 5G NR n5 for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 103 of 140

8.2.1 SAR Result of 5G NR n7

SA N7 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	507000/2535	1:1	0.127	-0.05	24.13	25.50	1.371	0.174	22.5
Left tilted	20	QPSK 1_1	507000/2535	1:1	0.075	0.11	24.13	25.50	1.371	0.103	22.5
Right cheek	20	QPSK 1_1	507000/2535	1:1	0.072	0.13	24.13	25.50	1.371	0.099	22.5
Right tilted	20	QPSK 1_1	507000/2535	1:1	0.043	0.04	24.13	25.50	1.371	0.059	22.5
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	507000/2535	1:1	0.133	-0.01	24.33	25.50	1.309	0.174	22.5
Left tilted	20	QPSK 50_28	507000/2535	1:1	0.072	0.08	24.33	25.50	1.309	0.094	22.5
Right cheek	20	QPSK 50_28	507000/2535	1:1	0.077	-0.01	24.33	25.50	1.309	0.101	22.5
Right tilted	20	QPSK 50_28	507000/2535	1:1	0.043	0.11	24.33	25.50	1.309	0.056	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	507000/2535	1:1	0.272	0.08	20.10	21.00	1.230	0.335	22.5
Back side	20	QPSK 1_1	507000/2535	1:1	0.375	0.01	20.10	21.00	1.230	0.461	22.5
Bottom side	20	QPSK 1_1	507000/2535	1:1	0.233	0.00	20.10	21.00	1.230	0.287	22.5
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	507000/2535	1:1	0.275	0.03	20.11	21.00	1.227	0.338	22.5
Back side	20	QPSK 50_28	507000/2535	1:1	0.383	0.04	20.11	21.00	1.227	0.470	22.5
Bottom side	20	QPSK 50_28	507000/2535	1:1	0.230	0.05	20.11	21.00	1.227	0.282	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_1	507000/2535	1:1	0.236	0.02	24.13	25.50	1.371	0.324	22.5
Back side-17mm	20	QPSK 1_1	507000/2535	1:1	0.200	0.09	24.13	25.50	1.371	0.274	22.5
Left side-10mm	20	QPSK 1_1	507000/2535	1:1	0.131	-0.05	24.13	25.50	1.371	0.180	22.5
Right side-10mm	20	QPSK 1_1	507000/2535	1:1	0.068	0.00	24.13	25.50	1.371	0.093	22.5
Bottom side-15mm	20	QPSK 1_1	507000/2535	1:1	0.138	0.04	24.13	25.50	1.371	0.189	22.5
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_28	507000/2535	1:1	0.241	0.09	24.33	25.50	1.309	0.316	22.5
Back side-17mm	20	QPSK 50_28	507000/2535	1:1	0.223	-0.11	24.33	25.50	1.309	0.292	22.5
Left side-10mm	20	QPSK 50_28	507000/2535	1:1	0.134	0.03	24.33	25.50	1.309	0.175	22.5
Right side-10mm	20	QPSK 50_28	507000/2535	1:1	0.071	0.03	24.33	25.50	1.309	0.093	22.5
Bottom side-15mm	20	QPSK 50_28	507000/2535	1:1	0.142	0.02	24.33	25.50	1.309	0.186	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	507000/2535	1:1	0.272	0.08	20.10	21.00	1.230	0.335	22.5
Back side	20	QPSK 1_1	507000/2535	1:1	0.375	0.01	20.10	21.00	1.230	0.461	22.5
Front side-12mm	20	QPSK 1_1	507000/2535	1:1	0.236	0.02	24.13	25.50	1.371	0.324	22.5
Back side-17mm	20	QPSK 1_1	507000/2535	1:1	0.200	0.09	24.13	25.50	1.371	0.274	22.5
Body-worn Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	507000/2535	1:1	0.275	0.03	20.11	21.00	1.227	0.338	22.5
Back side	20	QPSK 50_28	507000/2535	1:1	0.383	0.04	20.11	21.00	1.227	0.470	22.5
Front side-12mm	20	QPSK 50_28	507000/2535	1:1	0.241	0.09	24.33	25.50	1.309	0.316	22.5



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 104 of 140

Back side-17mm	20	QPSK 50_28	507000/2535	1:1	0.223	-0.11	24.33	25.50	1.309	0.292	22.5
Ant 4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	507000/2535	1:1	0.233	-0.04	18.17	19.00	1.211	0.282	22.5
Left tilted	20	QPSK 1_1	507000/2535	1:1	0.274	0.09	18.17	19.00	1.211	0.332	22.5
Right cheek	20	QPSK 1_1	507000/2535	1:1	0.468	0.12	18.17	19.00	1.211	0.567	22.5
Right cheek-ENDC	20	QPSK 1_1	507000/2535	1:1	0.406	0.01	17.34	18.00	1.164	0.473	22.5
Right tilted	20	QPSK 1_1	507000/2535	1:1	0.359	0.14	18.17	19.00	1.211	0.435	22.5
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	507000/2535	1:1	0.251	-0.02	18.29	19.00	1.178	0.296	22.5
Left tilted	20	QPSK 50_28	507000/2535	1:1	0.285	0.03	18.29	19.00	1.178	0.336	22.5
Right cheek	20	QPSK 50_28	507000/2535	1:1	0.394	0.12	18.29	19.00	1.178	0.464	22.5
Right tilted	20	QPSK 50_28	507000/2535	1:1	0.378	0.08	18.29	19.00	1.178	0.445	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	507000/2535	1:1	0.114	0.05	17.15	18.00	1.216	0.139	22.5
Back side	20	QPSK 1_1	507000/2535	1:1	0.172	0.10	17.15	18.00	1.216	0.209	22.5
Top side	20	QPSK 1_1	507000/2535	1:1	0.223	0.01	17.15	18.00	1.216	0.271	22.5
Top side-ENDC	20	QPSK 1_1	507000/2535	1:1	0.206	0.09	16.18	17.00	1.208	0.249	22.5
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	507000/2535	1:1	0.109	0.11	17.33	18.00	1.167	0.127	22.5
Back side	20	QPSK 50_28	507000/2535	1:1	0.166	0.10	17.33	18.00	1.167	0.194	22.5
Top side	20	QPSK 50_28	507000/2535	1:1	0.190	-0.05	17.33	18.00	1.167	0.222	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_1	507000/2535	1:1	0.095	0.05	24.42	25.50	1.282	0.122	22.5
Back side-17mm	20	QPSK 1_1	507000/2535	1:1	0.087	-0.16	24.42	25.50	1.282	0.112	22.5
Left side-10mm	20	QPSK 1_1	507000/2535	1:1	0.133	0.01	24.42	25.50	1.282	0.171	22.5
Top side-19mm	20	QPSK 1_1	507000/2535	1:1	0.116	0.03	24.42	25.50	1.282	0.149	22.5
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_28	507000/2535	1:1	0.105	0.01	24.58	25.50	1.236	0.130	22.5
Back side-17mm	20	QPSK 50_28	507000/2535	1:1	0.097	0.08	24.58	25.50	1.236	0.120	22.5
Left side-10mm	20	QPSK 50_28	507000/2535	1:1	0.123	0.00	24.58	25.50	1.236	0.152	22.5
Top side-19mm	20	QPSK 50_28	507000/2535	1:1	0.120	0.02	24.58	25.50	1.236	0.148	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	507000/2535	1:1	0.114	0.05	17.15	18.00	1.216	0.139	22.5
Back side	20	QPSK 1_1	507000/2535	1:1	0.172	0.10	17.15	18.00	1.216	0.209	22.5
Back side-ENDC	20	QPSK 1_1	507000/2535	1:1	0.138	0.16	16.18	17.00	1.208	0.167	22.5
Front side-12mm	20	QPSK 1_1	507000/2535	1:1	0.095	0.05	24.42	25.50	1.282	0.122	22.5
Back side-17mm	20	QPSK 1_1	507000/2535	1:1	0.087	-0.16	24.42	25.50	1.282	0.112	22.5
Body-worn Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	507000/2535	1:1	0.109	0.11	17.33	18.00	1.167	0.127	22.5
Back side	20	QPSK 50_28	507000/2535	1:1	0.166	0.10	17.33	18.00	1.167	0.194	22.5
Front side-12mm	20	QPSK 50_28	507000/2535	1:1	0.105	0.01	24.58	25.50	1.236	0.130	22.5



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 105 of 140

Back side-17mm	20	QPSK 50_28	507000/2535	1:1	0.097	0.08	24.58	25.50	1.236	0.120	22.5
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Table 24: SAR of 5G NR n7 for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 106 of 140

8.2.2 SAR Result of 5G NR n41

SA N41 SAR Test Record											
Ant0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.158	0.04	24.03	25.00	1.250	0.198	22.5
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.079	0.15	24.03	25.00	1.250	0.099	22.5
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.099	0.09	24.03	25.00	1.250	0.124	22.5
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.058	0.06	24.03	25.00	1.250	0.073	22.5
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.144	-0.01	24.21	25.00	1.199	0.173	22.5
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.060	0.02	24.21	25.00	1.199	0.072	22.5
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.084	-0.02	24.21	25.00	1.199	0.101	22.5
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.058	0.06	24.21	25.00	1.199	0.070	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.361	0.09	20.25	21.00	1.189	0.429	22.5
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.472	0.09	20.25	21.00	1.189	0.561	22.5
Bottom side	100	QPSK 1_1	518598/2592.99	1:1	0.330	-0.04	20.25	21.00	1.189	0.392	22.5
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.335	-0.05	20.35	21.00	1.161	0.389	22.5
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.415	-0.03	20.35	21.00	1.161	0.482	22.5
Bottom side	100	QPSK 135_69	518598/2592.99	1:1	0.304	0.07	20.35	21.00	1.161	0.353	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	100	QPSK 1_1	518598/2592.99	1:1	0.286	0.02	24.03	25.00	1.250	0.358	22.5
Back side-17mm	100	QPSK 1_1	518598/2592.99	1:1	0.231	0.05	24.03	25.00	1.250	0.289	22.5
Left side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.146	0.04	24.03	25.00	1.250	0.183	22.5
Right side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.082	0.09	24.03	25.00	1.250	0.103	22.5
Bottom side-15mm	100	QPSK 1_1	518598/2592.99	1:1	0.167	-0.16	24.03	25.00	1.250	0.209	22.5
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	100	QPSK 135_69	518598/2592.99	1:1	0.268	0.05	24.21	25.00	1.199	0.321	22.5
Back side-17mm	100	QPSK 135_69	518598/2592.99	1:1	0.223	0.01	24.21	25.00	1.199	0.267	22.5
Left side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.136	-0.02	24.21	25.00	1.199	0.163	22.5
Right side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.064	0.09	24.21	25.00	1.199	0.077	22.5
Bottom side-15mm	100	QPSK 135_69	518598/2592.99	1:1	0.146	0.03	24.21	25.00	1.199	0.175	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.361	0.09	20.25	21.00	1.189	0.429	22.5
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.472	0.09	20.25	21.00	1.189	0.561	22.5
Front side-12mm	100	QPSK 1_1	518598/2592.99	1:1	0.286	0.02	24.03	25.00	1.250	0.358	22.5
Back side-17mm	100	QPSK 1_1	518598/2592.99	1:1	0.231	0.05	24.03	25.00	1.250	0.289	22.5
Body-worn Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.335	-0.05	20.35	21.00	1.161	0.389	22.5
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.415	-0.03	20.35	21.00	1.161	0.482	22.5
Front side-12mm	100	QPSK 135_69	518598/2592.99	1:1	0.268	0.05	24.21	25.00	1.199	0.321	22.5



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 107 of 140

Back side-17mm	100	QPSK 135_69	518598/2592.99	1:1	0.223	0.01	24.21	25.00	1.199	0.267	22.5
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.389	0.03	18.68	19.00	1.076	0.419	22.5
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.468	0.03	18.68	19.00	1.076	0.504	22.5
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.783	0.12	18.68	19.00	1.076	0.843	22.5
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.604	0.01	18.68	19.00	1.076	0.650	22.5
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.370	0.04	18.89	19.00	1.026	0.379	22.5
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.463	-0.03	18.89	19.00	1.026	0.475	22.5
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.689	0.08	18.89	19.00	1.026	0.707	22.5
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.616	0.01	18.89	19.00	1.026	0.632	22.5
Head Test data(50%RB)											
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.692	0.05	18.71	19.00	1.069	0.740	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.162	0.09	17.66	18.00	1.081	0.175	22.5
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.242	0.07	17.66	18.00	1.081	0.262	22.5
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.269	0.02	17.66	18.00	1.081	0.291	22.5
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.171	-0.01	17.97	18.00	1.007	0.172	22.5
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.230	0.03	17.97	18.00	1.007	0.232	22.5
Top side	100	QPSK 135_69	518598/2592.99	1:1	0.264	0.13	17.97	18.00	1.007	0.266	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	100	QPSK 1_1	518598/2592.99	1:1	0.135	0.05	24.42	25.00	1.143	0.154	22.5
Back side-17mm	100	QPSK 1_1	518598/2592.99	1:1	0.130	0.01	24.42	25.00	1.143	0.149	22.5
Left side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.177	-0.05	24.42	25.00	1.143	0.202	22.5
Top side-19mm	100	QPSK 1_1	518598/2592.99	1:1	0.149	0.09	24.42	25.00	1.143	0.170	22.5
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	100	QPSK 135_69	518598/2592.99	1:1	0.142	-0.04	24.66	25.00	1.081	0.154	22.5
Back side-17mm	100	QPSK 135_69	518598/2592.99	1:1	0.136	0.05	24.66	25.00	1.081	0.147	22.5
Left side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.157	0.07	24.66	25.00	1.081	0.170	22.5
Top side-19mm	100	QPSK 135_69	518598/2592.99	1:1	0.156	0.01	24.66	25.00	1.081	0.169	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.162	0.09	17.66	18.00	1.081	0.175	22.5
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.242	0.07	17.66	18.00	1.081	0.262	22.5
Front side-12mm	100	QPSK 1_1	518598/2592.99	1:1	0.135	0.05	24.42	25.00	1.143	0.154	22.5
Back side-17mm	100	QPSK 1_1	518598/2592.99	1:1	0.130	0.01	24.42	25.00	1.143	0.149	22.5
Body-worn Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.171	-0.01	17.97	18.00	1.007	0.172	22.5
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.230	0.03	17.97	18.00	1.007	0.232	22.5
Front side-12mm	100	QPSK 135_69	518598/2592.99	1:1	0.142	-0.04	24.66	25.00	1.081	0.154	22.5
Back side-17mm	100	QPSK 135_69	518598/2592.99	1:1	0.136	0.05	24.66	25.00	1.081	0.147	22.5

Table 25: SAR of 5G NR n41 for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 108 of 140

8.2.3 SAR Result of 5G NR n66

SA N66 SAR Test Record											
Ant0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	349000/1745	1:1	0.006	0.09	24.41	25.50	1.285	0.008	22.9
Left tilted	20	QPSK 1_1	349000/1745	1:1	0.005	0.13	24.41	25.50	1.285	0.006	22.9
Right cheek	20	QPSK 1_1	349000/1745	1:1	0.021	0.10	24.41	25.50	1.285	0.027	22.9
Right tilted	20	QPSK 1_1	349000/1745	1:1	0.011	0.05	24.41	25.50	1.285	0.014	22.9
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	349000/1745	1:1	0.004	0.13	24.62	25.50	1.225	0.005	22.9
Left tilted	20	QPSK 50_28	349000/1745	1:1	0.003	0.14	24.62	25.50	1.225	0.004	22.9
Right cheek	20	QPSK 50_28	349000/1745	1:1	0.016	-0.03	24.62	25.50	1.225	0.020	22.9
Right tilted	20	QPSK 50_28	349000/1745	1:1	0.008	-0.01	24.62	25.50	1.225	0.010	22.9
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	349000/1745	1:1	0.150	-0.02	20.63	21.50	1.222	0.183	22.9
Back side	20	QPSK 1_1	349000/1745	1:1	0.425	0.09	20.63	21.50	1.222	0.519	22.9
Bottom side	20	QPSK 1_1	349000/1745	1:1	0.515	0.01	20.63	21.50	1.222	0.629	22.9
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	349000/1745	1:1	0.153	0.01	20.77	21.50	1.183	0.181	22.9
Back side	20	QPSK 50_28	349000/1745	1:1	0.407	0.02	20.77	21.50	1.183	0.481	22.9
Bottom side	20	QPSK 50_28	349000/1745	1:1	0.507	0.01	20.77	21.50	1.183	0.600	22.9
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_1	349000/1745	1:1	0.143	0.02	24.41	25.50	1.285	0.184	22.9
Back side-17mm	20	QPSK 1_1	349000/1745	1:1	0.227	-0.16	24.41	25.50	1.285	0.292	22.9
Left side-10mm	20	QPSK 1_1	349000/1745	1:1	0.047	0.03	24.41	25.50	1.285	0.060	22.9
Right side-10mm	20	QPSK 1_1	349000/1745	1:1	0.062	-0.01	24.41	25.50	1.285	0.080	22.9
Bottom side-15mm	20	QPSK 1_1	349000/1745	1:1	0.283	0.07	24.41	25.50	1.285	0.364	22.9
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_28	349000/1745	1:1	0.152	0.08	24.62	25.50	1.225	0.186	22.9
Back side-17mm	20	QPSK 50_28	349000/1745	1:1	0.243	0.01	24.62	25.50	1.225	0.298	22.9
Left side-10mm	20	QPSK 50_28	349000/1745	1:1	0.050	0.06	24.62	25.50	1.225	0.061	22.9
Right side-10mm	20	QPSK 50_28	349000/1745	1:1	0.067	0.00	24.62	25.50	1.225	0.082	22.9
Bottom side-15mm	20	QPSK 50_28	349000/1745	1:1	0.311	0.09	24.62	25.50	1.225	0.381	22.9
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	349000/1745	1:1	0.150	-0.02	20.63	21.50	1.222	0.183	22.9
Back side	20	QPSK 1_1	349000/1745	1:1	0.425	0.09	20.63	21.50	1.222	0.519	22.9
Front side-12mm	20	QPSK 1_1	349000/1745	1:1	0.143	0.02	24.41	25.50	1.285	0.184	22.9
Back side-17mm	20	QPSK 1_1	349000/1745	1:1	0.227	-0.16	24.41	25.50	1.285	0.292	22.9
Body-worn Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	349000/1745	1:1	0.153	0.01	20.77	21.50	1.183	0.181	22.9
Back side	20	QPSK 50_28	349000/1745	1:1	0.407	0.02	20.77	21.50	1.183	0.481	22.9
Front side-12mm	20	QPSK 50_28	349000/1745	1:1	0.152	0.08	24.62	25.50	1.225	0.186	22.9



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 109 of 140

Back side-17mm	20	QPSK 50_28	349000/1745	1:1	0.243	0.01	24.62	25.50	1.225	0.298	22.9
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	349000/1745	1:1	0.501	0.11	16.33	17.50	1.309	0.656	22.9
Left tilted	20	QPSK 1_1	349000/1745	1:1	0.598	0.11	16.33	17.50	1.309	0.783	22.9
Right cheek	20	QPSK 1_1	349000/1745	1:1	0.629	0.05	16.33	17.50	1.309	0.823	22.9
Right cheek	20	QPSK 1_1	344000/1720	1:1	0.482	0.06	16.32	17.50	1.312	0.632	22.9
Right cheek	20	QPSK 1_1	354000/1770	1:1	0.581	0.01	16.13	17.50	1.371	0.796	22.9
Right tilted	20	QPSK 1_1	349000/1745	1:1	0.778	-0.14	16.33	17.50	1.309	1.019	22.9
Right tilted-ENDC	30	QPSK 1_1	349000/1745	1:1	0.386	0.06	13.99	14.50	1.125	0.434	22.9
Right tilted	20	QPSK 1_1	344000/1720	1:1	0.599	0.02	16.32	17.50	1.312	0.786	22.9
Right tilted	20	QPSK 1_1	354000/1770	1:1	0.723	0.09	16.13	17.50	1.371	0.991	22.9
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	349000/1745	1:1	0.457	-0.03	16.25	17.50	1.334	0.609	22.9
Left tilted	20	QPSK 50_28	349000/1745	1:1	0.552	-0.02	16.25	17.50	1.334	0.736	22.9
Right cheek	20	QPSK 50_28	349000/1745	1:1	0.592	0.10	16.25	17.50	1.334	0.789	22.9
Right tilted	20	QPSK 50_28	349000/1745	1:1	0.705	-0.01	16.25	17.50	1.334	0.940	22.9
Right tilted	20	QPSK 50_28	344000/1720	1:1	0.525	0.01	16.23	17.50	1.340	0.703	22.9
Right tilted	20	QPSK 50_28	354000/1770	1:1	0.666	0.05	16.22	17.50	1.343	0.894	22.9
Head Test data(100%RB)											
Right cheek	20	QPSK 100_0	349000/1745	1:1	0.576	0.01	16.15	17.50	1.365	0.786	22.9
Right tilted	20	QPSK 100_0	349000/1745	1:1	0.678	0.06	16.15	17.50	1.365	0.925	22.9
Right tilted	20	QPSK 100_0	344000/1720	1:1	0.515	0.05	16.14	17.50	1.368	0.704	22.9
Right tilted	20	QPSK 100_0	354000/1770	1:1	0.628	0.07	16.01	17.50	1.409	0.885	22.9
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	349000/1745	1:1	0.362	0.03	19.35	20.50	1.303	0.472	22.9
Back side	20	QPSK 1_1	349000/1745	1:1	0.673	0.05	19.35	20.50	1.303	0.877	22.9
Back side	20	QPSK 1_1	344000/1720	1:1	0.533	-0.13	19.27	20.50	1.327	0.708	22.9
Back side	20	QPSK 1_1	354000/1770	1:1	0.637	0.02	19.22	20.50	1.343	0.855	22.9
Top side	20	QPSK 1_1	349000/1745	1:1	0.787	0.07	19.35	20.50	1.303	1.026	22.9
Top side-ENDC	30	QPSK 1_1	349000/1745	1:1	0.406	-0.11	16.86	17.50	1.159	0.470	22.9
Top side	20	QPSK 1_1	344000/1720	1:1	0.628	0.09	19.27	20.50	1.327	0.834	22.9
Top side	20	QPSK 1_1	354000/1770	1:1	0.752	-0.05	19.22	20.50	1.343	1.010	22.9
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	349000/1745	1:1	0.344	-0.01	19.22	20.50	1.343	0.462	22.9
Back side	20	QPSK 50_28	349000/1745	1:1	0.620	-0.02	19.22	20.50	1.343	0.833	22.9
Back side	20	QPSK 50_28	344000/1720	1:1	0.482	0.09	19.19	20.50	1.352	0.652	22.9
Back side	20	QPSK 50_28	354000/1770	1:1	0.578	0.03	19.22	20.50	1.343	0.776	22.9
Top side	20	QPSK 50_28	349000/1745	1:1	0.757	0.10	19.22	20.50	1.343	1.016	22.9
Top side	20	QPSK 50_28	344000/1720	1:1	0.589	0.05	19.19	20.50	1.352	0.796	22.9
Top side	20	QPSK 50_28	354000/1770	1:1	0.711	0.02	19.22	20.50	1.343	0.955	22.9
Hotspot (sensor on) Test data(Separate 10mm 100RB)											



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 110 of 140

Back side	20	QPSK 100_0	349000/1745	1:1	0.572	0.06	19.13	20.50	1.371	0.784	22.9
Top side	20	QPSK 100_0	349000/1745	1:1	0.702	0.01	19.13	20.50	1.371	0.962	22.9
Top side	20	QPSK 100_0	344000/1720	1:1	0.536	0.01	19.15	20.50	1.365	0.731	22.9
Top side	20	QPSK 100_0	354000/1770	1:1	0.658	0.08	19.04	20.50	1.400	0.921	22.9
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_1	349000/1745	1:1	0.421	0.02	24.58	25.50	1.236	0.520	22.9
Back side-17mm	20	QPSK 1_1	349000/1745	1:1	0.402	-0.06	24.58	25.50	1.236	0.497	22.9
Left side-10mm	20	QPSK 1_1	349000/1745	1:1	0.085	-0.01	24.58	25.50	1.236	0.105	22.9
Top side-19mm	20	QPSK 1_1	349000/1745	1:1	0.628	0.04	24.58	25.50	1.236	0.776	22.9
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	20	QPSK 50_28	349000/1745	1:1	0.434	0.08	24.68	25.50	1.208	0.524	22.9
Back side-17mm	20	QPSK 50_28	349000/1745	1:1	0.419	0.04	24.68	25.50	1.208	0.506	22.9
Left side-10mm	20	QPSK 50_28	349000/1745	1:1	0.082	-0.01	24.68	25.50	1.208	0.099	22.9
Top side-19mm	20	QPSK 50_28	349000/1745	1:1	0.631	0.05	24.68	25.50	1.208	0.762	22.9
Body-worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	349000/1745	1:1	0.362	0.03	19.35	20.50	1.303	0.472	22.9
Back side	20	QPSK 1_1	349000/1745	1:1	0.673	0.05	19.35	20.50	1.303	0.877	22.9
Back side-ENDC	30	QPSK 1_1	349000/1745	1:1	0.351	0.16	16.86	17.50	1.159	0.407	22.9
Back side	20	QPSK 1_1	344000/1720	1:1	0.533	-0.13	19.27	20.50	1.327	0.708	22.9
Back side	20	QPSK 1_1	354000/1770	1:1	0.637	0.02	19.22	20.50	1.343	0.855	22.9
Front side-12mm	20	QPSK 1_1	349000/1745	1:1	0.421	0.02	24.58	25.50	1.236	0.520	22.9
Back side-17mm	20	QPSK 1_1	349000/1745	1:1	0.402	-0.06	24.58	25.50	1.236	0.497	22.9
Body-worn Test data(Separate 10mm 50RB)											
Front side	20	QPSK 50_28	349000/1745	1:1	0.344	-0.01	19.22	20.50	1.343	0.462	22.9
Back side	20	QPSK 50_28	349000/1745	1:1	0.620	-0.02	19.22	20.50	1.343	0.833	22.9
Back side	20	QPSK 50_28	344000/1720	1:1	0.482	0.09	19.19	20.50	1.352	0.652	22.9
Back side	20	QPSK 50_28	354000/1770	1:1	0.578	0.03	19.22	20.50	1.343	0.776	22.9
Front side-12mm	20	QPSK 50_28	349000/1745	1:1	0.434	0.08	24.68	25.50	1.208	0.524	22.9
Back side-17mm	20	QPSK 50_28	349000/1745	1:1	0.419	0.04	24.68	25.50	1.208	0.506	22.9
Body-worn Test data(Separate 10mm 100RB)											
Back side	20	QPSK 100_0	349000/1745	1:1	0.572	0.06	19.13	20.50	1.371	0.784	22.9

Table 26: SAR of 5G NR n66 for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 111 of 140

8.2.4 SAR Result of 5G NR n77

SA N77 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.201	-0.01	20.88	21.50	1.153	0.232	22.5
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.158	0.02	20.88	21.50	1.153	0.182	22.5
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.416	0.00	20.88	21.50	1.153	0.480	22.5
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.276	-0.01	20.88	21.50	1.153	0.318	22.5
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.206	-0.01	21.07	21.50	1.104	0.227	22.5
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.166	-0.02	21.07	21.50	1.104	0.183	22.5
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.439	-0.04	21.07	21.50	1.104	0.485	22.5
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.291	0.04	21.07	21.50	1.104	0.321	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.140	0.12	20.88	21.50	1.153	0.161	22.5
Back side	100	QPSK 1_1	633334/3500	1:1	0.151	0.05	20.88	21.50	1.153	0.174	22.5
Top side	100	QPSK 1_1	633334/3500	1:1	0.145	0.05	20.88	21.50	1.153	0.167	22.5
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.147	-0.03	21.07	21.50	1.104	0.162	22.5
Back side	100	QPSK 135_69	633334/3500	1:1	0.164	0.10	21.07	21.50	1.104	0.181	22.5
Top side	100	QPSK 135_69	633334/3500	1:1	0.154	0.04	21.07	21.50	1.104	0.170	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	100	QPSK 1_1	633334/3500	1:1	0.105	0.02	24.86	25.50	1.159	0.122	22.5
Back side-17mm	100	QPSK 1_1	633334/3500	1:1	0.111	-0.11	24.86	25.50	1.159	0.129	22.5
Left side-10mm	100	QPSK 1_1	633334/3500	1:1	0.104	0.06	24.86	25.50	1.159	0.121	22.5
Top side-19mm	100	QPSK 1_1	633334/3500	1:1	0.123	0.06	24.86	25.50	1.159	0.143	22.5
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	100	QPSK 135_69	633334/3500	1:1	0.105	0.02	25.10	25.50	1.096	0.115	22.5
Back side-17mm	100	QPSK 135_69	633334/3500	1:1	0.109	0.08	25.10	25.50	1.096	0.120	22.5
Left side-10mm	100	QPSK 135_69	633334/3500	1:1	0.123	-0.01	25.10	25.50	1.096	0.135	22.5
Top side-19mm	100	QPSK 135_69	633334/3500	1:1	0.124	0.04	25.10	25.50	1.096	0.136	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.140	0.12	20.88	21.50	1.153	0.161	22.5
Back side	100	QPSK 1_1	633334/3500	1:1	0.151	0.05	20.88	21.50	1.153	0.174	22.5
Front side-12mm	100	QPSK 1_1	633334/3500	1:1	0.105	0.02	24.86	25.50	1.159	0.122	22.5
Back side-17mm	100	QPSK 1_1	633334/3500	1:1	0.111	-0.11	24.86	25.50	1.159	0.129	22.5
Body-worn Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.147	-0.03	21.07	21.50	1.104	0.162	22.5
Back side	100	QPSK 135_69	633334/3500	1:1	0.164	0.10	21.07	21.50	1.104	0.181	22.5
Front side-12mm	100	QPSK 135_69	633334/3500	1:1	0.105	0.02	25.10	25.50	1.096	0.115	22.5
Back side-17mm	100	QPSK 135_69	633334/3500	1:1	0.109	0.08	25.10	25.50	1.096	0.120	22.5
Ant5 Test Record											



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 112 of 140

Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.428	0.12	18.96	20.00	1.271	0.544	22.5
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.432	0.12	18.96	20.00	1.271	0.549	22.5
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.212	0.14	18.96	20.00	1.271	0.269	22.5
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.236	0.01	18.96	20.00	1.271	0.300	22.5
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.483	0.05	19.11	20.00	1.227	0.593	22.5
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.496	-0.04	19.11	20.00	1.227	0.609	22.5
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.267	0.10	19.11	20.00	1.227	0.328	22.5
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.323	0.04	19.11	20.00	1.227	0.396	22.5
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.191	0.06	21.54	22.50	1.247	0.238	22.5
Back side	100	QPSK 1_1	633334/3500	1:1	0.352	0.01	21.54	22.50	1.247	0.439	22.5
Top side	100	QPSK 1_1	633334/3500	1:1	0.319	0.08	21.54	22.50	1.247	0.398	22.5
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.187	0.03	21.72	22.50	1.197	0.224	22.5
Back side	100	QPSK 135_69	633334/3500	1:1	0.377	0.05	21.72	22.50	1.197	0.451	22.5
Top side	100	QPSK 135_69	633334/3500	1:1	0.295	-0.04	21.72	22.50	1.197	0.353	22.5
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	100	QPSK 1_1	633334/3500	1:1	0.162	-0.06	26.40	27.50	1.288	0.209	22.5
Back side-17mm	100	QPSK 1_1	633334/3500	1:1	0.160	0.05	26.40	27.50	1.288	0.206	22.5
Top side-19mm	100	QPSK 1_1	633334/3500	1:1	0.244	0.01	26.40	27.50	1.288	0.314	22.5
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	100	QPSK 135_69	633334/3500	1:1	0.165	0.08	26.41	27.50	1.285	0.212	22.5
Back side-17mm	100	QPSK 135_69	633334/3500	1:1	0.163	0.07	26.41	27.50	1.285	0.210	22.5
Top side-19mm	100	QPSK 135_69	633334/3500	1:1	0.241	0.02	26.41	27.50	1.285	0.310	22.5
Body-worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.191	0.06	21.54	22.50	1.247	0.238	22.5
Back side	100	QPSK 1_1	633334/3500	1:1	0.352	0.01	21.54	22.50	1.247	0.439	22.5
Front side-12mm	100	QPSK 1_1	633334/3500	1:1	0.162	-0.06	26.40	27.50	1.288	0.209	22.5
Back side-17mm	100	QPSK 1_1	633334/3500	1:1	0.160	0.05	26.40	27.50	1.288	0.206	22.5
Body-worn Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.187	0.03	21.72	22.50	1.197	0.224	22.5
Back side	100	QPSK 135_69	633334/3500	1:1	0.377	0.05	21.72	22.50	1.197	0.451	22.5
Front side-12mm	100	QPSK 135_69	633334/3500	1:1	0.165	0.08	26.41	27.50	1.285	0.212	22.5
Back side-17mm	100	QPSK 135_69	633334/3500	1:1	0.163	0.07	26.41	27.50	1.285	0.210	22.5

Table 27: SAR of 5G NR n77(3450MHz-3550MHz) for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 113 of 140

SA N77 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.145	0.13	20.94	21.50	1.138	0.165	22.6
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.186	0.11	20.94	21.50	1.138	0.212	22.6
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.377	0.00	20.94	21.50	1.138	0.429	22.6
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.273	0.13	20.94	21.50	1.138	0.311	22.6
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.152	0.13	21.13	21.50	1.089	0.166	22.6
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.199	0.07	21.13	21.50	1.089	0.217	22.6
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.386	0.02	21.13	21.50	1.089	0.420	22.6
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.300	-0.05	21.13	21.50	1.089	0.327	22.6
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.107	0.11	20.94	21.50	1.138	0.122	22.6
Back side	100	QPSK 1_1	656000/3840	1:1	0.144	0.11	20.94	21.50	1.138	0.164	22.6
Top side	100	QPSK 1_1	656000/3840	1:1	0.194	-0.01	20.94	21.50	1.138	0.221	22.6
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.105	0.13	21.13	21.50	1.089	0.114	22.6
Back side	100	QPSK 135_69	656000/3840	1:1	0.157	-0.01	21.13	21.50	1.089	0.171	22.6
Top side	100	QPSK 135_69	656000/3840	1:1	0.179	0.12	21.13	21.50	1.089	0.195	22.6
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	100	QPSK 1_1	656000/3840	1:1	0.081	0.08	24.97	25.50	1.130	0.092	22.6
Back side-17mm	100	QPSK 1_1	656000/3840	1:1	0.082	-0.04	24.97	25.50	1.130	0.093	22.6
Left side-10mm	100	QPSK 1_1	656000/3840	1:1	0.188	0.10	24.97	25.50	1.130	0.212	22.6
Top side-19mm	100	QPSK 1_1	656000/3840	1:1	0.110	0.01	24.97	25.50	1.130	0.124	22.6
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	100	QPSK 135_69	656000/3840	1:1	0.092	-0.02	24.99	25.50	1.125	0.103	22.6
Back side-17mm	100	QPSK 135_69	656000/3840	1:1	0.094	0.08	24.99	25.50	1.125	0.106	22.6
Left side-10mm	100	QPSK 135_69	656000/3840	1:1	0.159	-0.01	24.99	25.50	1.125	0.179	22.6
Top side-19mm	100	QPSK 135_69	656000/3840	1:1	0.122	0.05	24.99	25.50	1.125	0.137	22.6
Body-worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.107	0.11	20.94	21.50	1.138	0.122	22.6
Back side	100	QPSK 1_1	656000/3840	1:1	0.144	0.11	20.94	21.50	1.138	0.164	22.6
Front side-12mm	100	QPSK 1_1	656000/3840	1:1	0.081	0.08	24.97	25.50	1.130	0.092	22.6
Back side-17mm	100	QPSK 1_1	656000/3840	1:1	0.082	-0.04	24.97	25.50	1.130	0.093	22.6
Body-worn Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.105	0.13	21.13	21.50	1.089	0.114	22.6
Back side	100	QPSK 135_69	656000/3840	1:1	0.157	-0.01	21.13	21.50	1.089	0.171	22.6
Front side-12mm	100	QPSK 135_69	656000/3840	1:1	0.092	-0.02	24.99	25.50	1.125	0.103	22.6
Back side-17mm	100	QPSK 135_69	656000/3840	1:1	0.094	0.08	24.99	25.50	1.125	0.106	22.6
Ant5 Test Record											



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 114 of 140

Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.828	0.05	19.16	20.00	1.213	1.005	22.6
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.898	-0.01	19.16	20.00	1.213	1.090	22.6
Left tilted-Repeat SAR	100	QPSK 1_1	656000/3840	1:1	0.894	0.08	19.16	20.00	1.213	1.085	22.6
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.546	-0.03	19.16	20.00	1.213	0.663	22.6
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.600	-0.02	19.16	20.00	1.213	0.728	22.6
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.820	-0.01	19.11	20.00	1.227	1.007	22.6
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.886	-0.03	19.11	20.00	1.227	1.088	22.6
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.488	0.12	19.11	20.00	1.227	0.599	22.6
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.570	0.09	19.11	20.00	1.227	0.700	22.6
Head Test data(100%RB)											
Left cheek	100	QPSK 270_0	656000/3840	1:1	0.815	0.03	19.10	20.00	1.230	1.003	22.6
Left tilted	100	QPSK 270_0	656000/3840	1:1	0.881	0.08	19.10	20.00	1.230	1.084	22.6
Head Test data(1RB) For n78 ENDG											
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.828	0.05	19.16	18.00	0.766	0.634	22.6
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.898	-0.01	19.16	18.00	0.766	0.688	22.6
Left tilted-Repeat SAR	100	QPSK 1_1	656000/3840	1:1	0.894	0.08	19.16	18.00	0.766	0.684	22.6
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.546	-0.03	19.16	18.00	0.766	0.418	22.6
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.600	-0.02	19.16	18.00	0.766	0.459	22.6
Head Test data(50%RB) For n78 ENDG											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.820	-0.01	19.11	18.00	0.774	0.635	22.6
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.886	-0.03	19.11	18.00	0.774	0.686	22.6
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.488	0.12	19.11	18.00	0.774	0.378	22.6
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.570	0.09	19.11	18.00	0.774	0.441	22.6
Head Test data(100%RB) For n78 ENDG											
Left cheek	100	QPSK 270_0	656000/3840	1:1	0.815	0.03	19.10	18.00	0.776	0.633	22.6
Left tilted	100	QPSK 270_0	656000/3840	1:1	0.881	0.08	19.10	18.00	0.776	0.684	22.6
Hotspot (sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.229	0.01	21.47	22.50	1.268	0.290	22.6
Back side	100	QPSK 1_1	656000/3840	1:1	0.386	0.05	21.47	22.50	1.268	0.489	22.6
Top side	100	QPSK 1_1	656000/3840	1:1	0.385	0.08	21.47	22.50	1.268	0.488	22.6
Hotspot (sensor on) Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.216	-0.11	21.70	22.50	1.202	0.260	22.6
Back side	100	QPSK 135_69	656000/3840	1:1	0.394	0.09	21.70	22.50	1.202	0.474	22.6
Top side	100	QPSK 135_69	656000/3840	1:1	0.365	0.02	21.70	22.50	1.202	0.439	22.6
Hotspot (sensor off) Test data(1RB)											
Front side-12mm	100	QPSK 1_1	656000/3840	1:1	0.239	0.02	26.43	27.50	1.279	0.306	22.6
Back side-17mm	100	QPSK 1_1	656000/3840	1:1	0.263	-0.04	26.43	27.50	1.279	0.336	22.6
Top side-19mm	100	QPSK 1_1	656000/3840	1:1	0.258	0.01	26.43	27.50	1.279	0.330	22.6
Hotspot (sensor off) Test data(50RB)											
Front side-12mm	100	QPSK 135_69	656000/3840	1:1	0.231	0.06	26.55	27.50	1.245	0.287	22.6



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 115 of 140

Back side-17mm	100	QPSK 135_69	656000/3840	1:1	0.258	0.08	26.55	27.50	1.245	0.321	22.6
Top side-19mm	100	QPSK 135_69	656000/3840	1:1	0.246	0.06	26.55	27.50	1.245	0.306	22.6
Body-worn Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.229	0.01	21.47	22.50	1.268	0.290	22.6
Back side	100	QPSK 1_1	656000/3840	1:1	0.386	0.05	21.47	22.50	1.268	0.489	22.6
Front side-12mm	100	QPSK 1_1	656000/3840	1:1	0.239	0.02	26.43	27.50	1.279	0.306	22.6
Back side-17mm	100	QPSK 1_1	656000/3840	1:1	0.263	-0.04	26.43	27.50	1.279	0.336	22.6
Body-worn Test data(Separate 10mm 50RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.216	-0.11	21.70	22.50	1.202	0.260	22.6
Back side	100	QPSK 135_69	656000/3840	1:1	0.394	0.09	21.70	22.50	1.202	0.474	22.6
Front side-12mm	100	QPSK 135_69	656000/3840	1:1	0.231	0.06	26.55	27.50	1.245	0.287	22.6
Back side-17mm	100	QPSK 135_69	656000/3840	1:1	0.258	0.08	26.55	27.50	1.245	0.321	22.6

Table 28: SAR of 5G NR n77(3700MHz -3980MHz) for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	656000/3840	0.898	0.894	1.004	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 116 of 140

8.2.5 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record											
Ant6 Test Record chain0											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data - Receiver on											
Left cheek	802.11b	6/2437	98.57%	1.015	0.366	-0.12	15.97	16.50	1.130	0.420	22.6
Left tilted	802.11b	6/2437	98.57%	1.015	0.271	0.05	15.97	16.50	1.130	0.311	22.6
Right cheek	802.11b	6/2437	98.57%	1.015	0.129	0.04	15.97	16.50	1.130	0.148	22.6
Right tilted	802.11b	6/2437	98.57%	1.015	0.137	-0.16	15.97	16.50	1.130	0.157	22.6
Hotspot Test data (Separate 10mm) - Receiver off											
Front side	802.11b	6/2437	98.57%	1.015	0.223	0.05	19.20	20.00	1.202	0.272	22.6
Back side	802.11b	6/2437	98.57%	1.015	0.327	0.07	19.20	20.00	1.202	0.399	22.6
Left side	802.11b	6/2437	98.57%	1.015	0.046	0.09	19.20	20.00	1.202	0.056	22.6
Right side	802.11b	6/2437	98.57%	1.015	0.249	0.09	19.20	20.00	1.202	0.304	22.6
Top side	802.11b	6/2437	98.57%	1.015	0.174	0.15	19.20	20.00	1.202	0.212	22.6
Front side-12mm	802.11b	6/2437	98.57%	1.015	0.136	0.11	19.20	20.00	1.202	0.166	22.6
Back side-17mm	802.11b	6/2437	98.57%	1.015	0.127	-0.04	19.20	20.00	1.202	0.155	22.6
Top side-19mm	802.11b	6/2437	98.57%	1.015	0.079	0.05	19.20	20.00	1.202	0.096	22.6

Table 29: SAR of WIFI 2.4G for Head and Body.

Note: When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 117 of 140

8.2.1 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record											
Ant6 Test Record chain0											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data of U-NII-2A - Receiver on											
Left cheek	802.11a	60/5300	97.20%	1.029	0.394	0.05	15.77	16.50	1.183	0.480	22.7
Left tilted	802.11a	60/5300	97.20%	1.029	0.412	-0.13	15.77	16.50	1.183	0.501	22.7
Right cheek	802.11a	60/5300	97.20%	1.029	0.310	0.08	15.77	16.50	1.183	0.377	22.7
Right tilted	802.11a	60/5300	97.20%	1.029	0.343	-0.01	15.77	16.50	1.183	0.418	22.7
Head Test data of U-NII-2C - Receiver on											
Left cheek	802.11a	116/5580	97.20%	1.029	0.288	0.08	15.84	16.50	1.164	0.345	22.7
Left tilted	802.11a	116/5580	97.20%	1.029	0.410	0.03	15.84	16.50	1.164	0.491	22.7
Right cheek	802.11a	116/5580	97.20%	1.029	0.264	0.09	15.84	16.50	1.164	0.316	22.7
Right tilted	802.11a	116/5580	97.20%	1.029	0.370	0.02	15.84	16.50	1.164	0.443	22.7
Head Test data of U-NII-3 - Receiver on											
Left cheek	802.11a	157/5785	97.20%	1.029	0.334	0.03	15.89	16.50	1.151	0.395	22.7
Left tilted	802.11a	157/5785	97.20%	1.029	0.356	0.01	15.89	16.50	1.151	0.422	22.7
Right cheek	802.11a	157/5785	97.20%	1.029	0.298	0.11	15.89	16.50	1.151	0.353	22.7
Right tilted	802.11a	157/5785	97.20%	1.029	0.355	0.01	15.89	16.50	1.151	0.420	22.7
Hotspot Test data of U-NII-1(Separate 10mm) - Receiver off											
Front side	802.11a	40/5200	97.20%	1.029	0.189	0.07	17.02	18.00	1.253	0.244	22.7
Back side	802.11a	40/5200	97.20%	1.029	0.364	0.08	17.02	18.00	1.253	0.469	22.7
Left side	802.11a	40/5200	97.20%	1.029	0.045	0.03	17.02	18.00	1.253	0.058	22.7
Right side	802.11a	40/5200	97.20%	1.029	0.157	0.13	17.02	18.00	1.253	0.202	22.7
Top side	802.11a	40/5200	97.20%	1.029	0.363	-0.02	17.02	18.00	1.253	0.468	22.7
Front side-12mm	802.11a	40/5200	97.20%	1.029	0.174	-0.02	17.02	18.00	1.253	0.224	22.7
Back side-17mm	802.11a	40/5200	97.20%	1.029	0.223	0.04	17.02	18.00	1.253	0.288	22.7
Top side-19mm	802.11a	40/5200	97.20%	1.029	0.210	0.09	17.02	18.00	1.253	0.271	22.7
Hotspot Test data of U-NII-3(Separate 10mm) - Receiver off											
Front side	802.11a	157/5785	97.20%	1.029	0.085	0.06	16.81	17.50	1.172	0.103	22.7
Back side	802.11a	157/5785	97.20%	1.029	0.335	0.07	16.81	17.50	1.172	0.404	22.7
Left side	802.11a	157/5785	97.20%	1.029	0.077	-0.01	16.81	17.50	1.172	0.093	22.7
Right side	802.11a	157/5785	97.20%	1.029	0.086	-0.04	16.81	17.50	1.172	0.104	22.7
Top side	802.11a	157/5785	97.20%	1.029	0.284	-0.14	16.81	17.50	1.172	0.342	22.7
Front side-12mm	802.11a	157/5785	97.20%	1.029	0.056	-0.11	16.81	17.50	1.172	0.068	22.7
Back side-17mm	802.11a	157/5785	97.20%	1.029	0.167	0.02	16.81	17.50	1.172	0.201	22.7
Top side-19mm	802.11a	157/5785	97.20%	1.029	0.110	0.17	16.81	17.50	1.172	0.133	22.7
Body worn Test data of U-NII-1(Separate 10mm) - Receiver off											
Front side	802.11a	40/5200	97.20%	1.029	0.189	0.07	17.02	18.00	1.253	0.244	22.7
Back side	802.11a	40/5200	97.20%	1.029	0.364	0.08	17.02	18.00	1.253	0.469	22.7
Body worn Test data of U-NII-2A(Separate 10mm) - Receiver off											
Front side	802.11a	60/5300	97.20%	1.029	0.153	0.04	17.31	18.00	1.172	0.185	22.7



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 118 of 140

Back side	802.11a	60/5300	97.20%	1.029	0.252	-0.11	17.31	18.00	1.172	0.304	22.7
Body worn Test data of U-NII-2C(Separate 10mm) - Receiver off											
Front side	802.11a	116/5580	97.20%	1.029	0.106	0.04	17.27	18.00	1.183	0.129	22.7
Back side	802.11a	116/5580	97.20%	1.029	0.359	0.08	17.27	18.00	1.183	0.437	22.7
Body worn Test data of U-NII-3(Separate 10mm) - Receiver off											
Front side	802.11a	157/5785	97.20%	1.029	0.085	0.06	16.81	17.50	1.172	0.103	22.7
Back side	802.11a	157/5785	97.20%	1.029	0.335	0.07	16.81	17.50	1.172	0.404	22.7
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A(Separate 0mm) - Receiver off											
Front side	802.11a	60/5300	97.20%	1.029	0.291	0.04	17.31	18.00	1.172	0.351	22.7
Back side	802.11a	60/5300	97.20%	1.029	0.524	0.13	17.31	18.00	1.172	0.632	22.7
Left side	802.11a	60/5300	97.20%	1.029	0.032	-0.01	17.31	18.00	1.172	0.039	22.7
Right side	802.11a	60/5300	97.20%	1.029	0.086	0.07	17.31	18.00	1.172	0.104	22.7
Top side	802.11a	60/5300	97.20%	1.029	0.545	-0.06	17.31	18.00	1.172	0.657	22.7
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm) - Receiver off											
Front side	802.11a	116/5580	97.20%	1.029	0.215	0.03	17.27	18.00	1.183	0.262	22.7
Back side	802.11a	116/5580	97.20%	1.029	0.611	-0.04	17.27	18.00	1.183	0.744	22.7
Left side	802.11a	116/5580	97.20%	1.029	0.075	0.01	17.27	18.00	1.183	0.091	22.7
Right side	802.11a	116/5580	97.20%	1.029	0.068	-0.01	17.27	18.00	1.183	0.083	22.7
Top side	802.11a	116/5580	97.20%	1.029	0.635	-0.07	17.27	18.00	1.183	0.773	22.7

Table 30: SAR of WIFI 5G for Head and Body.

Note:

- As the 802.11a highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11a,therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, SAR test for the other 802.11 modes are also not required.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 119 of 140

8.2.2 SAR Result of BT

Bluetooth SAR Test Record											
Ant6 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	DH5	39/2441	76.86%	1.301	0.106	-0.04	11.46	13.00	1.426	0.197	22.6
Left tilted	DH5	39/2441	76.86%	1.301	0.078	0.08	11.46	13.00	1.426	0.145	22.6
Right cheek	DH5	39/2441	76.86%	1.301	0.037	0.08	11.46	13.00	1.426	0.069	22.6
Right tilted	DH5	39/2441	76.86%	1.301	0.040	0.03	11.46	13.00	1.426	0.074	22.6
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.86%	1.301	0.024	0.13	11.46	13.00	1.426	0.045	22.6
Back side	DH5	39/2441	76.86%	1.301	0.035	0.14	11.46	13.00	1.426	0.065	22.6
Left side	DH5	39/2441	76.86%	1.301	0.005	0.03	11.46	13.00	1.426	0.009	22.6
Right side	DH5	39/2441	76.86%	1.301	0.027	-0.03	11.46	13.00	1.426	0.050	22.6
Top side	DH5	39/2441	76.86%	1.301	0.019	0.12	11.46	13.00	1.426	0.035	22.6

Table 31: SAR of BT for Head and Body.



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 120 of 140

8.2.1 SAR Result of NFC

Test position	Test mode	Test /Freq.	SAR (W/kg) 10-g	Power drift (dB)	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Body Test data (Separate 0mm)						
Front side	NFC	13.56MHz	0.001	0.02	0.001	22.8
Back side	NFC	13.56MHz	0.026	0.01	0.026	22.8
Left side	NFC	13.56MHz	0.001	0.03	0.001	22.8
Right side	NFC	13.56MHz	0.001	0.05	0.001	22.8
Top side	NFC	13.56MHz	0.001	-0.09	0.001	22.8
Bottom side	NFC	13.56MHz	0.001	0.06	0.001	22.8

Table 32: SAR of NFC for Body.

Note:

- 1) NFC mainly operate in hand-held extremity exposure conditions and NFC sensing distance with other device or reading tag is about 20cm, therefore Standalone 10-g extremity SAR testing for NFC will be performed with active mode and max power mode, with 100% duty cycle at 0mmseparation distance.
- 2) NFC SAR is measured for all edges and surfaces of the device.
- 3) NFC 13.56MHz antenna por is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

- Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + 2.4G	Y	Y	Y	Y
2	WWAN + 5G	Y	Y	Y	Y
3	WWAN + BT	Y	Y	Y	Y

Note:

- 1) The device support DTM function.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 3) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 4) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required it wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.



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8.3.2 Simultaneous Transmission SAR Summation Scenario

Simultaneous Transmission SAR Summation Scenario for WLAN Head:

Test position		SARmax (W/kg)				Summed SAR		
		Main Ant0	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	1+2	1+3	1+4
GSM850 ANT0	Left cheek	0.244	0.420	0.480	0.197	0.66	0.72	0.44
	Left tilted	0.151	0.311	0.501	0.145	0.46	0.65	0.30
	Right cheek	0.272	0.148	0.377	0.069	0.42	0.65	0.34
	Right tilted	0.168	0.157	0.443	0.074	0.33	0.61	0.24
GSM850 ANT4	Left cheek	0.591	0.420	0.480	0.197	1.01	1.07	0.79
	Left tilted	0.558	0.311	0.501	0.145	0.87	1.06	0.70
	Right cheek	0.629	0.148	0.377	0.069	0.78	1.01	0.70
	Right tilted	0.588	0.157	0.443	0.074	0.75	1.03	0.66
GSM1900 ANT0	Left cheek	0.079	0.420	0.480	0.197	0.50	0.56	0.28
	Left tilted	0.063	0.311	0.501	0.145	0.37	0.56	0.21
	Right cheek	0.101	0.148	0.377	0.069	0.25	0.48	0.17
	Right tilted	0.061	0.157	0.443	0.074	0.22	0.50	0.14
GSM1900 ANT4	Left cheek	0.539	0.420	0.480	0.197	0.96	1.02	0.74
	Left tilted	0.605	0.311	0.501	0.145	0.92	1.11	0.75
	Right cheek	0.685	0.148	0.377	0.069	0.83	1.06	0.75
	Right tilted	1.090	0.157	0.443	0.074	1.25	1.53	1.16
WCDMA II ANT0	Left cheek	0.166	0.420	0.480	0.197	0.59	0.65	0.36
	Left tilted	0.120	0.311	0.501	0.145	0.43	0.62	0.27
	Right cheek	0.249	0.148	0.377	0.069	0.40	0.63	0.32
	Right tilted	0.137	0.157	0.443	0.074	0.29	0.58	0.21
WCDMA II ANT4	Left cheek	0.442	0.420	0.480	0.197	0.86	0.92	0.64
	Left tilted	0.600	0.311	0.501	0.145	0.91	1.10	0.75
	Right cheek	0.688	0.148	0.377	0.069	0.84	1.07	0.76
	Right tilted	0.943	0.157	0.443	0.074	1.10	1.39	1.02
WCDMA IV ANT0	Left cheek	0.093	0.420	0.480	0.197	0.51	0.57	0.29
	Left tilted	0.072	0.311	0.501	0.145	0.38	0.57	0.22
	Right cheek	0.143	0.148	0.377	0.069	0.29	0.52	0.21
	Right tilted	0.084	0.157	0.443	0.074	0.24	0.53	0.16
WCDMA IV ANT4	Left cheek	0.273	0.420	0.480	0.197	0.69	0.75	0.47
	Left tilted	0.364	0.311	0.501	0.145	0.68	0.87	0.51
	Right cheek	0.533	0.148	0.377	0.069	0.68	0.91	0.60
	Right tilted	0.743	0.157	0.443	0.074	0.90	1.19	0.82
WCDMA V ANT0	Left cheek	0.201	0.420	0.480	0.197	0.62	0.68	0.40
	Left tilted	0.102	0.311	0.501	0.145	0.41	0.60	0.25
	Right cheek	0.249	0.148	0.377	0.069	0.40	0.63	0.32
	Right tilted	0.156	0.157	0.443	0.074	0.31	0.60	0.23
WCDMA V ANT4	Left cheek	0.932	0.420	0.480	0.197	1.35	1.41	1.13
	Left tilted	0.854	0.311	0.501	0.145	1.17	1.36	1.00
	Right cheek	0.248	0.148	0.377	0.069	0.40	0.63	0.32
	Right tilted	0.238	0.157	0.443	0.074	0.40	0.68	0.31
LTE Band 2 ANT0	Left cheek	0.153	0.420	0.480	0.197	0.57	0.63	0.35
	Left tilted	0.106	0.311	0.501	0.145	0.42	0.61	0.25
	Right cheek	0.223	0.148	0.377	0.069	0.37	0.60	0.29



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 123 of 140

LTE Band 2 ANT4	Right tilted	0.115	0.157	0.443	0.074	0.27	0.56	0.19
	Left cheek	0.419	0.420	0.480	0.197	0.84	0.90	0.62
	Left tilted	0.545	0.311	0.501	0.145	0.86	1.05	0.69
	Right cheek	0.586	0.148	0.377	0.069	0.73	0.96	0.66
	Right tilted	0.749	0.157	0.443	0.074	0.91	1.19	0.82
LTE Band 7 ANT0	Left cheek	0.229	0.420	0.480	0.197	0.65	0.71	0.43
	Left tilted	0.133	0.311	0.501	0.145	0.44	0.63	0.28
	Right cheek	0.141	0.148	0.377	0.069	0.29	0.52	0.21
	Right tilted	0.086	0.157	0.443	0.074	0.24	0.53	0.16
LTE Band 7 ANT4	Left cheek	0.350	0.420	0.480	0.197	0.77	0.83	0.55
	Left tilted	0.434	0.311	0.501	0.145	0.75	0.94	0.58
	Right cheek	0.675	0.148	0.377	0.069	0.82	1.05	0.74
	Right tilted	0.545	0.157	0.443	0.074	0.70	0.99	0.62
LTE Band 66 ANT0	Left cheek	0.107	0.420	0.480	0.197	0.53	0.59	0.30
	Left tilted	0.080	0.311	0.501	0.145	0.39	0.58	0.23
	Right cheek	0.164	0.148	0.377	0.069	0.31	0.54	0.23
	Right tilted	0.083	0.157	0.443	0.074	0.24	0.53	0.16
LTE Band 66 ANT4	Left cheek	0.419	0.420	0.480	0.197	0.84	0.90	0.62
	Left tilted	0.507	0.311	0.501	0.145	0.82	1.01	0.65
	Right cheek	0.533	0.148	0.377	0.069	0.68	0.91	0.60
	Right tilted	0.637	0.157	0.443	0.074	0.79	1.08	0.71
LTE Band 12 ANT0	Left cheek	0.101	0.420	0.480	0.197	0.52	0.58	0.30
	Left tilted	0.000	0.311	0.501	0.145	0.31	0.50	0.15
	Right cheek	0.114	0.148	0.377	0.069	0.26	0.49	0.18
	Right tilted	0.056	0.157	0.443	0.074	0.21	0.50	0.13
LTE Band 12 ANT4	Left cheek	0.406	0.420	0.480	0.197	0.83	0.89	0.60
	Left tilted	0.414	0.311	0.501	0.145	0.73	0.92	0.56
	Right cheek	0.443	0.148	0.377	0.069	0.59	0.82	0.51
	Right tilted	0.432	0.157	0.443	0.074	0.59	0.88	0.51
LTE Band 13 ANT0	Left cheek	0.154	0.420	0.480	0.197	0.57	0.63	0.35
	Left tilted	0.099	0.311	0.501	0.145	0.41	0.60	0.24
	Right cheek	0.189	0.148	0.377	0.069	0.34	0.57	0.26
	Right tilted	0.112	0.157	0.443	0.074	0.27	0.56	0.19
LTE Band 13 ANT4	Left cheek	0.562	0.420	0.480	0.197	0.98	1.04	0.76
	Left tilted	0.531	0.311	0.501	0.145	0.84	1.03	0.68
	Right cheek	0.589	0.148	0.377	0.069	0.74	0.97	0.66
	Right tilted	0.531	0.157	0.443	0.074	0.69	0.97	0.61
LTE Band 26 ANT0	Left cheek	0.161	0.420	0.480	0.197	0.58	0.64	0.36
	Left tilted	0.100	0.311	0.501	0.145	0.41	0.60	0.25
	Right cheek	0.232	0.148	0.377	0.069	0.38	0.61	0.30
	Right tilted	0.107	0.157	0.443	0.074	0.26	0.55	0.18
LTE Band 26 ANT4	Left cheek	0.848	0.420	0.480	0.197	1.27	1.33	1.05
	Left tilted	0.817	0.311	0.501	0.145	1.13	1.32	0.96
	Right cheek	0.850	0.148	0.377	0.069	1.00	1.23	0.92
	Right tilted	0.792	0.157	0.443	0.074	0.95	1.24	0.87
LTE Band 41 ANT0	Left cheek	0.144	0.420	0.480	0.197	0.56	0.62	0.34
	Left tilted	0.100	0.311	0.501	0.145	0.41	0.60	0.25
	Right cheek	0.123	0.148	0.377	0.069	0.27	0.50	0.19
	Right tilted	0.083	0.157	0.443	0.074	0.24	0.53	0.16
	Left cheek	0.298	0.420	0.480	0.197	0.72	0.78	0.50



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 124 of 140

LTE Band 41 ANT4	Left tilted	0.415	0.311	0.501	0.145	0.73	0.92	0.56
	Right cheek	0.608	0.148	0.377	0.069	0.76	0.99	0.68
	Right tilted	0.514	0.157	0.443	0.074	0.67	0.96	0.59
n5 ANT0	Left cheek	0.130	0.420	0.480	0.197	0.55	0.61	0.33
	Left tilted	0.064	0.311	0.501	0.145	0.38	0.57	0.21
	Right cheek	0.154	0.148	0.377	0.069	0.30	0.53	0.22
n5 ANT4	Right tilted	0.079	0.157	0.443	0.074	0.24	0.52	0.15
	Left cheek	0.797	0.420	0.480	0.197	1.22	1.28	0.99
	Left tilted	0.738	0.311	0.501	0.145	1.05	1.24	0.88
n7 ANT0	Right cheek	0.810	0.148	0.377	0.069	0.96	1.19	0.88
	Right tilted	0.744	0.157	0.443	0.074	0.90	1.19	0.82
	Left cheek	0.174	0.420	0.480	0.197	0.59	0.65	0.37
n7 ANT4	Left tilted	0.103	0.311	0.501	0.145	0.41	0.60	0.25
	Right cheek	0.101	0.148	0.377	0.069	0.25	0.48	0.17
	Right tilted	0.059	0.157	0.443	0.074	0.22	0.50	0.13
n41 ANT0	Left cheek	0.296	0.420	0.480	0.197	0.72	0.78	0.49
	Left tilted	0.336	0.311	0.501	0.145	0.65	0.84	0.48
	Right cheek	0.567	0.148	0.377	0.069	0.72	0.94	0.64
n41 ANT4	Right tilted	0.567	0.157	0.443	0.074	0.72	1.01	0.64
	Left cheek	0.198	0.420	0.480	0.197	0.62	0.68	0.40
	Left tilted	0.099	0.311	0.501	0.145	0.41	0.60	0.24
n66 ANT0	Right cheek	0.124	0.148	0.377	0.069	0.27	0.50	0.19
	Right tilted	0.073	0.157	0.443	0.074	0.23	0.52	0.15
	Left cheek	0.419	0.420	0.480	0.197	0.84	0.90	0.62
n66 ANT4	Left tilted	0.504	0.311	0.501	0.145	0.82	1.01	0.65
	Right cheek	0.843	0.148	0.377	0.069	0.99	1.22	0.91
	Right tilted	0.650	0.157	0.443	0.074	0.81	1.09	0.72
n77-3500 ANT3	Left cheek	0.008	0.420	0.480	0.197	0.43	0.49	0.21
	Left tilted	0.006	0.311	0.501	0.145	0.32	0.51	0.15
	Right cheek	0.027	0.148	0.377	0.069	0.18	0.40	0.10
n77-3500 ANT5	Right tilted	0.014	0.157	0.443	0.074	0.17	0.46	0.09
	Left cheek	0.656	0.420	0.480	0.197	1.08	1.14	0.85
	Left tilted	0.783	0.311	0.501	0.145	1.09	1.28	0.93
n77-3900 ANT3	Right cheek	0.823	0.148	0.377	0.069	0.97	1.20	0.89
	Right tilted	0.823	0.157	0.443	0.074	0.98	1.27	0.90
	Left cheek	0.232	0.420	0.480	0.197	0.65	0.71	0.43
n77-3900 ANT5	Left tilted	0.183	0.311	0.501	0.145	0.49	0.68	0.33
	Right cheek	0.485	0.148	0.377	0.069	0.63	0.86	0.55
	Right tilted	0.321	0.157	0.443	0.074	0.48	0.76	0.40
n77-3900 ANT3	Left cheek	0.593	0.420	0.480	0.197	1.01	1.07	0.79
	Left tilted	0.609	0.311	0.501	0.145	0.92	1.11	0.75
	Right cheek	0.328	0.148	0.377	0.069	0.48	0.71	0.40
n77-3900 ANT5	Right tilted	0.396	0.157	0.443	0.074	0.55	0.84	0.47
	Left cheek	0.166	0.420	0.480	0.197	0.59	0.65	0.36
	Left tilted	0.217	0.311	0.501	0.145	0.53	0.72	0.36
n77-3900 ANT3	Right cheek	0.429	0.148	0.377	0.069	0.58	0.81	0.50
	Right tilted	0.327	0.157	0.443	0.074	0.48	0.77	0.40
	Left cheek	1.007	0.420	0.480	0.197	1.43	1.49	1.20
n77-3900 ANT5	Left tilted	1.090	0.311	0.501	0.145	1.40	1.59	1.24
	Right cheek	0.663	0.148	0.377	0.069	0.81	1.04	0.73



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 125 of 140

	Right tilted	0.728	0.157	0.443	0.074	0.89	1.17	0.80
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ENDC		SARmax (W/kg)					Summed SAR		
		WWAN	NR	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
LTE Band 12 ANT0 n66 ANT4	Left cheek	0.101	0.434	0.420	0.480	0.197	0.96	1.02	0.73
	Left tilted	0.000	0.434	0.311	0.501	0.145	0.75	0.94	0.58
	Right cheek	0.114	0.434	0.148	0.377	0.069	0.70	0.93	0.62
	Right tilted	0.056	0.434	0.157	0.443	0.074	0.65	0.93	0.56
LTE Band 2 ANT4 n66 ANT0	Left cheek	0.487	0.008	0.420	0.480	0.197	0.92	0.98	0.69
	Left tilted	0.487	0.006	0.311	0.501	0.145	0.80	0.99	0.64
	Right cheek	0.487	0.027	0.148	0.377	0.069	0.66	0.89	0.58
	Right tilted	0.487	0.014	0.157	0.443	0.074	0.66	0.94	0.58
LTE Band 2 ANT0 n78 ANT3(n77)	Left cheek	0.153	0.232	0.420	0.480	0.197	0.81	0.87	0.58
	Left tilted	0.106	0.217	0.311	0.501	0.145	0.63	0.82	0.47
	Right cheek	0.223	0.485	0.148	0.377	0.069	0.86	1.09	0.78
	Right tilted	0.115	0.327	0.157	0.443	0.074	0.60	0.89	0.52
LTE Band 2 ANT0 n78 ANT5(n77)	Left cheek	0.153	0.635	0.420	0.480	0.197	1.21	1.27	0.99
	Left tilted	0.106	0.688	0.311	0.501	0.145	1.11	1.30	0.94
	Right cheek	0.223	0.418	0.148	0.377	0.069	0.79	1.02	0.71
	Right tilted	0.115	0.459	0.157	0.443	0.074	0.73	1.02	0.65
LTE Band 41(38) ANT0 n78 ANT3(n77)	Left cheek	0.144	0.232	0.420	0.480	0.197	0.80	0.86	0.57
	Left tilted	0.100	0.217	0.311	0.501	0.145	0.63	0.82	0.46
	Right cheek	0.123	0.485	0.148	0.377	0.069	0.76	0.99	0.68
	Right tilted	0.083	0.327	0.157	0.443	0.074	0.57	0.85	0.48
LTE Band 41(38) ANT0 n78 ANT5(n77)	Left cheek	0.144	0.635	0.420	0.480	0.197	1.20	1.26	0.98
	Left tilted	0.100	0.688	0.311	0.501	0.145	1.10	1.29	0.93
	Right cheek	0.123	0.418	0.148	0.377	0.069	0.69	0.92	0.61
	Right tilted	0.083	0.459	0.157	0.443	0.074	0.70	0.99	0.62
LTE Band 5(26) ANT0 n66 ANT4	Left cheek	0.161	0.434	0.420	0.303	0.197	1.02	0.90	0.79
	Left tilted	0.100	0.434	0.310	0.316	0.145	0.84	0.85	0.68
	Right cheek	0.232	0.434	0.148	0.238	0.069	0.81	0.90	0.74
	Right tilted	0.107	0.434	0.157	0.280	0.074	0.70	0.82	0.62
LTE Band 26 ANT0 n41 ANT4	Left cheek	0.161	0.419	0.420	0.303	0.197	1.00	0.88	0.78
	Left tilted	0.100	0.504	0.310	0.316	0.145	0.91	0.92	0.75
	Right cheek	0.232	0.843	0.148	0.238	0.069	1.22	1.31	1.14
	Right tilted	0.107	0.650	0.157	0.280	0.074	0.91	1.04	0.83
LTE Band 5(26) ANT0 n78 ANT3(n77)	Left cheek	0.161	0.232	0.420	0.303	0.197	0.81	0.70	0.59
	Left tilted	0.100	0.217	0.310	0.316	0.145	0.63	0.63	0.46
	Right cheek	0.232	0.485	0.148	0.238	0.069	0.87	0.96	0.79
	Right tilted	0.107	0.327	0.157	0.280	0.074	0.59	0.71	0.51
LTE Band 5(26) ANT0 n78 ANT5(n77)	Left cheek	0.161	0.635	0.420	0.303	0.197	1.22	1.10	0.99
	Left tilted	0.100	0.688	0.310	0.316	0.145	1.10	1.10	0.93
	Right cheek	0.232	0.418	0.148	0.238	0.069	0.80	0.89	0.72
	Right tilted	0.107	0.459	0.157	0.280	0.074	0.72	0.85	0.64
	Left cheek	0.107	0.419	0.420	0.303	0.197	0.95	0.83	0.72
	Left tilted	0.080	0.504	0.310	0.316	0.145	0.89	0.90	0.73



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 126 of 140

LTE Band 66 ANT0 n41(n38) ANT4	Right cheek	0.164	0.843	0.148	0.238	0.069	1.16	1.25	1.08
	Right tilted	0.083	0.650	0.157	0.280	0.074	0.89	1.01	0.81
LTE Band 66 ANT0 n78 ANT3(n77)	Left cheek	0.107	0.232	0.420	0.303	0.197	0.76	0.64	0.54
	Left tilted	0.080	0.217	0.310	0.316	0.145	0.61	0.61	0.44
	Right cheek	0.164	0.485	0.148	0.238	0.069	0.80	0.89	0.72
	Right tilted	0.083	0.327	0.157	0.280	0.074	0.57	0.69	0.48
LTE Band 66 ANT0 n78 ANT5(n77)	Left cheek	0.107	0.635	0.420	0.303	0.197	1.16	1.05	0.94
	Left tilted	0.080	0.688	0.310	0.316	0.145	1.08	1.08	0.91
	Right cheek	0.164	0.418	0.148	0.238	0.069	0.73	0.82	0.65
	Right tilted	0.083	0.459	0.157	0.280	0.074	0.70	0.82	0.62
LTE Band 66 ANT0 n7 ANT4	Left cheek	0.107	0.473	0.420	0.303	0.197	1.00	0.88	0.78
	Left tilted	0.080	0.473	0.310	0.316	0.145	0.86	0.87	0.70
	Right cheek	0.164	0.473	0.148	0.238	0.069	0.79	0.88	0.71
	Right tilted	0.083	0.473	0.157	0.280	0.074	0.71	0.84	0.63
LTE Band 7 ANT0 n78 ANT3(n77)	Left cheek	0.456	0.232	0.420	0.303	0.197	1.11	0.99	0.89
	Left tilted	0.267	0.217	0.310	0.316	0.145	0.79	0.80	0.63
	Right cheek	0.281	0.485	0.148	0.238	0.069	0.91	1.00	0.84
	Right tilted	0.170	0.327	0.157	0.280	0.074	0.65	0.78	0.57
LTE Band 7 ANT0 n78 ANT5(n77)	Left cheek	0.456	0.635	0.420	0.303	0.197	1.51	1.39	1.29
	Left tilted	0.267	0.688	0.310	0.316	0.145	1.27	1.27	1.10
	Right cheek	0.281	0.418	0.148	0.238	0.069	0.85	0.94	0.77
	Right tilted	0.170	0.459	0.157	0.280	0.074	0.79	0.91	0.70
LTE Band 7 ANT4 n5 ANT0	Left cheek	0.444	0.130	0.420	0.303	0.197	0.99	0.88	0.77
	Left tilted	0.444	0.064	0.310	0.316	0.145	0.82	0.82	0.65
	Right cheek	0.444	0.154	0.148	0.238	0.069	0.75	0.84	0.67
	Right tilted	0.444	0.079	0.157	0.280	0.074	0.68	0.80	0.60

UL_CA		SARmax (W/kg)					Summed SAR		
		WWAN	WWAN	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
LTE Band 2 ANT4 LTE Band 4(66) ANT0	Left cheek	0.487	0.107	0.420	0.480	0.197	1.01	1.07	0.79
	Left tilted	0.487	0.080	0.311	0.501	0.145	0.88	1.07	0.71
	Right cheek	0.487	0.164	0.148	0.377	0.069	0.80	1.03	0.72
	Right tilted	0.487	0.083	0.157	0.443	0.074	0.73	1.01	0.64
LTE Band 4(66) ANT0 LTE Band 7 ANT4	Left cheek	0.107	0.444	0.420	0.480	0.197	0.97	1.03	0.75
	Left tilted	0.080	0.444	0.311	0.501	0.145	0.84	1.03	0.67
	Right cheek	0.164	0.444	0.148	0.377	0.069	0.76	0.99	0.68
	Right tilted	0.083	0.444	0.157	0.443	0.074	0.68	0.97	0.60



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**Simultaneous Transmission SAR Summation Scenario for WLAN Body:
Body-worn:**

Test position		SARmax (W/kg)				Summed SAR		
		Main Ant0	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	1+2	1+3	1+4
GSM850 ANT0	Front side	0.283	0.272	0.244	0.045	0.56	0.53	0.33
	Back side	0.559	0.399	0.469	0.065	0.96	1.03	0.62
GSM850 ANT4	Front side	0.229	0.272	0.244	0.045	0.50	0.47	0.27
	Back side	0.483	0.399	0.469	0.065	0.88	0.95	0.55
GSM1900 ANT0	Front side	0.132	0.272	0.244	0.045	0.40	0.38	0.18
	Back side	0.210	0.399	0.469	0.065	0.61	0.68	0.28
GSM1900 ANT4	Front side	0.479	0.272	0.244	0.045	0.75	0.72	0.52
	Back side	0.646	0.399	0.469	0.065	1.05	1.12	0.71
WCDMA II ANT0	Front side	0.470	0.272	0.244	0.045	0.74	0.71	0.52
	Back side	0.503	0.399	0.469	0.065	0.90	0.97	0.57
WCDMA II ANT4	Front side	0.839	0.272	0.244	0.045	1.11	1.08	0.88
	Back side	0.880	0.399	0.469	0.065	1.28	1.35	0.95
WCDMA IV ANT0	Front side	0.400	0.272	0.244	0.045	0.67	0.64	0.45
	Back side	0.498	0.399	0.469	0.065	0.90	0.97	0.56
WCDMA IV ANT4	Front side	0.792	0.272	0.244	0.045	1.06	1.04	0.84
	Back side	0.726	0.399	0.469	0.065	1.13	1.20	0.79
WCDMA V ANT0	Front side	0.274	0.272	0.244	0.045	0.55	0.52	0.32
	Back side	0.518	0.399	0.469	0.065	0.92	0.99	0.58
WCDMA V ANT4	Front side	0.212	0.272	0.244	0.045	0.48	0.46	0.26
	Back side	0.466	0.399	0.469	0.065	0.87	0.94	0.53
LTE Band 2 ANT0	Front side	0.330	0.272	0.244	0.045	0.60	0.57	0.38
	Back side	0.441	0.399	0.469	0.065	0.84	0.91	0.51
LTE Band 2 ANT4	Front side	0.650	0.272	0.244	0.045	0.92	0.89	0.70
	Back side	0.676	0.399	0.469	0.065	1.08	1.15	0.74
LTE Band 7 ANT0	Front side	0.713	0.272	0.244	0.045	0.99	0.96	0.76
	Back side	0.569	0.399	0.469	0.065	0.97	1.04	0.63
LTE Band 7 ANT4	Front side	0.366	0.272	0.244	0.045	0.64	0.61	0.41
	Back side	0.411	0.399	0.469	0.065	0.81	0.88	0.48
LTE Band 66 ANT0	Front side	0.286	0.272	0.244	0.045	0.56	0.53	0.33
	Back side	0.577	0.399	0.469	0.065	0.98	1.05	0.64
LTE Band 66 ANT4	Front side	0.797	0.272	0.244	0.045	1.07	1.04	0.84
	Back side	0.747	0.399	0.469	0.065	1.15	1.22	0.81
LTE Band 12 ANT0	Front side	0.143	0.272	0.244	0.045	0.42	0.39	0.19
	Back side	0.250	0.399	0.469	0.065	0.65	0.72	0.32
LTE Band 12 ANT4	Front side	0.108	0.272	0.244	0.045	0.38	0.35	0.15
	Back side	0.183	0.399	0.469	0.065	0.58	0.65	0.25
LTE Band 13 ANT0	Front side	0.160	0.272	0.244	0.045	0.43	0.40	0.21
	Back side	0.322	0.399	0.469	0.065	0.72	0.79	0.39
LTE Band 13 ANT4	Front side	0.176	0.272	0.244	0.045	0.45	0.42	0.22
	Back side	0.263	0.399	0.469	0.065	0.66	0.73	0.33
LTE Band 26 ANT0	Front side	0.240	0.272	0.244	0.045	0.51	0.48	0.29
	Back side	0.409	0.399	0.469	0.065	0.81	0.88	0.47
LTE Band 26 ANT4	Front side	0.301	0.272	0.244	0.045	0.57	0.55	0.35



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 128 of 140

	Back side	0.476	0.399	0.469	0.065	0.88	0.95	0.54
LTE Band 41 ANT0	Front side	0.496	0.272	0.244	0.045	0.77	0.74	0.54
	Back side	0.498	0.399	0.469	0.065	0.90	0.97	0.56
LTE Band 41 ANT4	Front side	0.351	0.272	0.244	0.045	0.62	0.60	0.40
	Back side	0.235	0.399	0.469	0.065	0.63	0.70	0.30
n5 ANT0	Front side	0.184	0.272	0.244	0.045	0.46	0.43	0.23
	Back side	0.354	0.399	0.469	0.065	0.75	0.82	0.42
n5 ANT4	Front side	0.173	0.272	0.244	0.045	0.45	0.42	0.22
	Back side	0.405	0.399	0.469	0.065	0.80	0.87	0.47
n7 ANT0	Front side	0.338	0.272	0.244	0.045	0.61	0.58	0.38
	Back side	0.470	0.399	0.469	0.065	0.87	0.94	0.54
n7 ANT4	Front side	0.139	0.272	0.244	0.045	0.41	0.38	0.18
	Back side	0.209	0.399	0.469	0.065	0.61	0.68	0.27
n41 ANT0	Front side	0.429	0.272	0.244	0.045	0.70	0.67	0.47
	Back side	0.561	0.399	0.469	0.065	0.96	1.03	0.63
n41 ANT4	Front side	0.175	0.272	0.244	0.045	0.45	0.42	0.22
	Back side	0.262	0.399	0.469	0.065	0.66	0.73	0.33
n66 ANT0	Front side	0.186	0.272	0.244	0.045	0.46	0.43	0.23
	Back side	0.519	0.399	0.469	0.065	0.92	0.99	0.58
n66 ANT4	Front side	0.524	0.272	0.244	0.045	0.80	0.77	0.57
	Back side	0.877	0.399	0.469	0.065	1.28	1.35	0.94
n77-3500 ANT3	Front side	0.162	0.272	0.244	0.045	0.43	0.41	0.21
	Back side	0.181	0.399	0.469	0.065	0.58	0.65	0.25
n77-3500 ANT5	Front side	0.238	0.272	0.244	0.045	0.51	0.48	0.28
	Back side	0.451	0.399	0.469	0.065	0.85	0.92	0.52
n77-3900 ANT3	Front side	0.122	0.272	0.244	0.045	0.39	0.37	0.17
	Back side	0.171	0.399	0.469	0.065	0.57	0.64	0.24
n77-3900 ANT5	Front side	0.306	0.272	0.244	0.045	0.58	0.55	0.35
	Back side	0.489	0.399	0.469	0.065	0.89	0.96	0.55

ENDC		SARmax (W/kg)					Summed SAR		
		WWAN	NR	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
LTE Band 12 ANT0 n66 ANT4	Front side	0.143	0.407	0.272	0.244	0.045	0.82	0.79	0.60
	Back side	0.250	0.407	0.399	0.469	0.065	1.06	1.13	0.72
LTE Band 2 ANT4 n66 ANT0	Front side	0.519	0.286	0.272	0.244	0.045	1.08	1.05	0.85
	Back side	0.519	0.577	0.399	0.469	0.065	1.50	1.57	1.16
LTE Band 2 ANT0 n78 ANT3(n77)	Front side	0.330	0.162	0.272	0.244	0.045	0.76	0.74	0.54
	Back side	0.441	0.181	0.399	0.469	0.065	1.02	1.09	0.69



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 129 of 140

LTE Band 2 ANT0 n78 ANT5(n77)	Front side	0.330	0.306	0.272	0.244	0.045	0.91	0.88	0.68
	Back side	0.441	0.489	0.399	0.469	0.065	1.33	1.40	1.00
LTE Band 41(38) ANT0 n78 ANT3(n77)	Front side	0.496	0.162	0.272	0.244	0.045	0.93	0.90	0.70
	Back side	0.498	0.181	0.399	0.469	0.065	1.08	1.15	0.74
LTE Band 41(38) ANT0 n78 ANT5(n77)	Front side	0.496	0.306	0.272	0.244	0.045	1.07	1.05	0.85
	Back side	0.498	0.489	0.399	0.469	0.065	1.39	1.46	1.05
LTE Band 5(26) ANT0 n66 ANT4	Front side	0.240	0.407	0.272	0.244	0.045	0.92	0.89	0.69
	Back side	0.409	0.407	0.399	0.469	0.065	1.22	1.29	0.88
LTE Band 26 ANT0 n41 ANT4	Front side	0.240	0.175	0.272	0.244	0.045	0.69	0.66	0.46
	Back side	0.409	0.262	0.399	0.469	0.065	1.07	1.14	0.74
LTE Band 5(26) ANT0 n78 ANT3(n77)	Front side	0.240	0.162	0.272	0.244	0.045	0.67	0.65	0.45
	Back side	0.409	0.181	0.399	0.469	0.065	0.99	1.06	0.66
LTE Band 5(26) ANT0 n78 ANT5(n77)	Front side	0.240	0.306	0.272	0.244	0.045	0.82	0.79	0.59
	Back side	0.409	0.489	0.399	0.469	0.065	1.30	1.37	0.96
LTE Band 66 ANT0 n41(n38) ANT4	Front side	0.286	0.175	0.272	0.244	0.045	0.73	0.71	0.51
	Back side	0.577	0.262	0.399	0.469	0.065	1.24	1.31	0.90
LTE Band 66 ANT0 n78 ANT3(n77)	Front side	0.286	0.162	0.272	0.244	0.045	0.72	0.69	0.49
	Back side	0.577	0.181	0.399	0.469	0.065	1.16	1.23	0.82
LTE Band 66 ANT0 n78 ANT5(n77)	Front side	0.286	0.306	0.272	0.244	0.045	0.86	0.84	0.64
	Back side	0.577	0.489	0.399	0.469	0.065	1.47	1.54	1.13
LTE Band 66 ANT0 n7 ANT4	Front side	0.286	0.167	0.272	0.244	0.045	0.73	0.70	0.50
	Back side	0.577	0.167	0.399	0.469	0.065	1.14	1.21	0.81
LTE Band 7 ANT0 n78 ANT3(n77)	Front side	0.713	0.162	0.272	0.244	0.045	1.15	1.12	0.92
	Back side	0.569	0.181	0.399	0.469	0.065	1.15	1.22	0.82



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 130 of 140

LTE Band 7 ANT0 n78 ANT5(n77)	Front side	0.713	0.306	0.272	0.244	0.045	1.29	1.26	1.06
	Back side	0.569	0.489	0.399	0.469	0.065	1.46	1.53	1.12
LTE Band 7 ANT4 n5 ANT0	Front side	0.490	0.184	0.272	0.244	0.045	0.95	0.92	0.72
	Back side	0.490	0.354	0.399	0.469	0.065	1.24	1.31	0.91

UL_CA		SARmax (W/kg)					Summed SAR		
		WWAN	WWAN	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
LTE Band 2 ANT4 LTE Band 4(66) ANT0	Front side	0.519	0.286	0.272	0.244	0.045	1.08	1.05	0.85
	Back side	0.519	0.577	0.399	0.469	0.065	1.50	1.57	1.16
LTE Band 4(66) ANT0 LTE Band 7 ANT4	Front side	0.286	0.490	0.272	0.244	0.045	1.05	1.02	0.82
	Back side	0.577	0.490	0.399	0.469	0.065	1.47	1.54	1.13



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 131 of 140

Hotspot:

Test position		SARmax (W/kg)				Summed SAR		
		Main Ant0	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	1+2	1+3	1+4
GSM850 ANT0	Front side	0.283	0.272	0.244	0.045	0.56	0.53	0.33
	Back side	0.559	0.399	0.469	0.065	0.96	1.03	0.62
	Left side	0.169	0.056	0.093	0.009	0.23	0.26	0.18
	Right side	0.357	0.304	0.202	0.050	0.66	0.56	0.41
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.411	0.000	0.000	0.000	0.41	0.41	0.41
GSM850 ANT4	Front side	0.229	0.272	0.244	0.045	0.50	0.47	0.27
	Back side	0.483	0.399	0.469	0.065	0.88	0.95	0.55
	Left side	0.118	0.056	0.093	0.009	0.17	0.21	0.13
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.274	0.212	0.468	0.035	0.49	0.74	0.31
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
GSM1900 ANT0	Front side	0.132	0.272	0.244	0.045	0.40	0.38	0.18
	Back side	0.210	0.399	0.469	0.065	0.61	0.68	0.28
	Left side	0.050	0.056	0.093	0.009	0.11	0.14	0.06
	Right side	0.056	0.304	0.202	0.050	0.36	0.26	0.11
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.230	0.000	0.000	0.000	0.23	0.23	0.23
GSM1900 ANT4	Front side	0.479	0.272	0.244	0.045	0.75	0.72	0.52
	Back side	0.646	0.399	0.469	0.065	1.05	1.12	0.71
	Left side	0.120	0.056	0.093	0.009	0.18	0.21	0.13
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.929	0.212	0.468	0.035	1.14	1.40	0.96
	Bottom side	0.929	0.000	0.000	0.000	0.93	0.93	0.93
WCDMA II ANT0	Front side	0.470	0.272	0.244	0.045	0.74	0.71	0.52
	Back side	0.503	0.399	0.469	0.065	0.90	0.97	0.57
	Left side	0.130	0.056	0.093	0.009	0.19	0.22	0.14
	Right side	0.129	0.304	0.202	0.050	0.43	0.33	0.18
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.546	0.000	0.000	0.000	0.55	0.55	0.55
WCDMA II ANT4	Front side	0.839	0.272	0.244	0.045	1.11	1.08	0.88
	Back side	0.880	0.399	0.469	0.065	1.28	1.35	0.95
	Left side	0.121	0.056	0.093	0.009	0.18	0.21	0.13
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	1.015	0.212	0.468	0.035	1.23	1.48	1.05
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
WCDMA IV ANT0	Front side	0.400	0.272	0.244	0.045	0.67	0.64	0.45
	Back side	0.498	0.399	0.469	0.065	0.90	0.97	0.56
	Left side	0.059	0.056	0.093	0.009	0.12	0.15	0.07
	Right side	0.062	0.304	0.202	0.050	0.37	0.26	0.11
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.645	0.000	0.000	0.000	0.65	0.65	0.65
	Front side	0.792	0.272	0.244	0.045	1.06	1.04	0.84



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 132 of 140

WCDMA IV ANT4	Back side	0.726	0.399	0.469	0.065	1.13	1.20	0.79
	Left side	0.181	0.056	0.093	0.009	0.24	0.27	0.19
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.996	0.212	0.468	0.035	1.21	1.46	1.03
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
WCDMA V ANT0	Front side	0.274	0.272	0.244	0.045	0.55	0.52	0.32
	Back side	0.518	0.399	0.469	0.065	0.92	0.99	0.58
	Left side	0.169	0.056	0.093	0.009	0.23	0.26	0.18
	Right side	0.344	0.304	0.202	0.050	0.65	0.55	0.39
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
WCDMA V ANT4	Bottom side	0.473	0.000	0.000	0.000	0.47	0.47	0.47
	Front side	0.212	0.272	0.244	0.045	0.48	0.46	0.26
	Back side	0.466	0.399	0.469	0.065	0.87	0.94	0.53
	Left side	0.105	0.056	0.093	0.009	0.16	0.20	0.11
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
LTE Band 2 ANT0	Top side	0.334	0.212	0.468	0.035	0.55	0.80	0.37
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
	Front side	0.330	0.272	0.244	0.045	0.60	0.57	0.38
	Back side	0.441	0.399	0.469	0.065	0.84	0.91	0.51
	Left side	0.103	0.056	0.093	0.009	0.16	0.20	0.11
LTE Band 2 ANT4	Right side	0.109	0.304	0.202	0.050	0.41	0.31	0.16
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.446	0.000	0.000	0.000	0.45	0.45	0.45
	Front side	0.650	0.272	0.244	0.045	0.92	0.89	0.70
	Back side	0.676	0.399	0.469	0.065	1.08	1.15	0.74
LTE Band 7 ANT0	Left side	0.168	0.056	0.093	0.009	0.22	0.26	0.18
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	1.070	0.212	0.468	0.035	1.28	1.54	1.11
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
	Front side	0.713	0.272	0.244	0.045	0.99	0.96	0.76
LTE Band 7 ANT4	Back side	0.569	0.399	0.469	0.065	0.97	1.04	0.63
	Left side	0.155	0.056	0.093	0.009	0.21	0.25	0.16
	Right side	0.086	0.304	0.202	0.050	0.39	0.29	0.14
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.342	0.000	0.000	0.000	0.34	0.34	0.34
LTE Band 66 ANT0	Front side	0.366	0.272	0.244	0.045	0.64	0.61	0.41
	Back side	0.411	0.399	0.469	0.065	0.81	0.88	0.48
	Left side	0.720	0.056	0.093	0.009	0.78	0.81	0.73
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.477	0.212	0.468	0.035	0.69	0.95	0.51
LTE Band 66 ANT4	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
	Front side	0.286	0.272	0.244	0.045	0.56	0.53	0.33
	Back side	0.577	0.399	0.469	0.065	0.98	1.05	0.64
	Left side	0.079	0.056	0.093	0.009	0.14	0.17	0.09
	Right side	0.090	0.304	0.202	0.050	0.39	0.29	0.14
LTE Band 66 ANT4	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.770	0.000	0.000	0.000	0.77	0.77	0.77
	Front side	0.797	0.272	0.244	0.045	1.07	1.04	0.84
LTE Band 66 ANT4	Back side	0.747	0.399	0.469	0.065	1.15	1.22	0.81
	Left side	0.158	0.056	0.093	0.009	0.21	0.25	0.17



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 133 of 140

	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.965	0.212	0.468	0.035	1.18	1.43	1.00
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
LTE Band 12 ANT0	Front side	0.143	0.272	0.244	0.045	0.42	0.39	0.19
	Back side	0.250	0.399	0.469	0.065	0.65	0.72	0.32
	Left side	0.167	0.056	0.093	0.009	0.22	0.26	0.18
	Right side	0.249	0.304	0.202	0.050	0.55	0.45	0.30
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.179	0.000	0.000	0.000	0.18	0.18	0.18
LTE Band 12 ANT4	Front side	0.108	0.272	0.244	0.045	0.38	0.35	0.15
	Back side	0.183	0.399	0.469	0.065	0.58	0.65	0.25
	Left side	0.118	0.056	0.093	0.009	0.17	0.21	0.13
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.149	0.212	0.468	0.035	0.36	0.62	0.18
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
LTE Band 13 ANT0	Front side	0.160	0.272	0.244	0.045	0.43	0.40	0.21
	Back side	0.322	0.399	0.469	0.065	0.72	0.79	0.39
	Left side	0.126	0.056	0.093	0.009	0.18	0.22	0.14
	Right side	0.262	0.304	0.202	0.050	0.57	0.46	0.31
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.249	0.000	0.000	0.000	0.25	0.25	0.25
LTE Band 13 ANT4	Front side	0.176	0.272	0.244	0.045	0.45	0.42	0.22
	Back side	0.263	0.399	0.469	0.065	0.66	0.73	0.33
	Left side	0.101	0.056	0.093	0.009	0.16	0.19	0.11
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.252	0.212	0.468	0.035	0.46	0.72	0.29
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
LTE Band 26 ANT0	Front side	0.240	0.272	0.244	0.045	0.51	0.48	0.29
	Back side	0.409	0.399	0.469	0.065	0.81	0.88	0.47
	Left side	0.117	0.056	0.093	0.009	0.17	0.21	0.13
	Right side	0.221	0.304	0.202	0.050	0.53	0.42	0.27
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.303	0.000	0.000	0.000	0.30	0.30	0.30
LTE Band 26 ANT4	Front side	0.301	0.272	0.244	0.045	0.57	0.55	0.35
	Back side	0.476	0.399	0.469	0.065	0.88	0.95	0.54
	Left side	0.127	0.056	0.093	0.009	0.18	0.22	0.14
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.387	0.212	0.468	0.035	0.60	0.86	0.42
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
LTE Band 41 ANT0	Front side	0.496	0.272	0.244	0.045	0.77	0.74	0.54
	Back side	0.498	0.399	0.469	0.065	0.90	0.97	0.56
	Left side	0.136	0.056	0.093	0.009	0.19	0.23	0.15
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.334	0.000	0.000	0.000	0.33	0.33	0.33
LTE Band 41 ANT4	Front side	0.351	0.272	0.244	0.045	0.62	0.60	0.40
	Back side	0.235	0.399	0.469	0.065	0.63	0.70	0.30
	Left side	0.300	0.056	0.093	0.009	0.36	0.39	0.31
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.377	0.212	0.468	0.035	0.59	0.85	0.41



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	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
n5 ANT0	Front side	0.184	0.272	0.244	0.045	0.46	0.43	0.23
	Back side	0.354	0.399	0.469	0.065	0.75	0.82	0.42
	Left side	0.089	0.056	0.093	0.009	0.15	0.18	0.10
	Right side	0.143	0.304	0.202	0.050	0.45	0.35	0.19
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.298	0.000	0.000	0.000	0.30	0.30	0.30
n5 ANT4	Front side	0.173	0.272	0.244	0.045	0.45	0.42	0.22
	Back side	0.405	0.399	0.469	0.065	0.80	0.87	0.47
	Left side	0.078	0.056	0.093	0.009	0.13	0.17	0.09
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.266	0.212	0.468	0.035	0.48	0.73	0.30
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
n7 ANT0	Front side	0.338	0.272	0.244	0.045	0.61	0.58	0.38
	Back side	0.470	0.399	0.469	0.065	0.87	0.94	0.54
	Left side	0.180	0.056	0.093	0.009	0.24	0.27	0.19
	Right side	0.093	0.304	0.202	0.050	0.40	0.30	0.14
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.287	0.000	0.000	0.000	0.29	0.29	0.29
n7 ANT4	Front side	0.139	0.272	0.244	0.045	0.41	0.38	0.18
	Back side	0.209	0.399	0.469	0.065	0.61	0.68	0.27
	Left side	0.171	0.056	0.093	0.009	0.23	0.26	0.18
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.271	0.212	0.468	0.035	0.48	0.74	0.31
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
n41 ANT0	Front side	0.429	0.272	0.244	0.045	0.70	0.67	0.47
	Back side	0.561	0.399	0.469	0.065	0.96	1.03	0.63
	Left side	0.183	0.056	0.093	0.009	0.24	0.28	0.19
	Right side	0.103	0.304	0.202	0.050	0.41	0.31	0.15
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.392	0.000	0.000	0.000	0.39	0.39	0.39
n41 ANT4	Front side	0.175	0.272	0.244	0.045	0.45	0.42	0.22
	Back side	0.262	0.399	0.469	0.065	0.66	0.73	0.33
	Left side	0.202	0.056	0.093	0.009	0.26	0.30	0.21
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.291	0.212	0.468	0.035	0.50	0.76	0.33
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
n66 ANT0	Front side	0.186	0.272	0.244	0.045	0.46	0.43	0.23
	Back side	0.519	0.399	0.469	0.065	0.92	0.99	0.58
	Left side	0.061	0.056	0.093	0.009	0.12	0.15	0.07
	Right side	0.082	0.304	0.202	0.050	0.39	0.28	0.13
	Top side	0.000	0.212	0.468	0.035	0.21	0.47	0.04
	Bottom side	0.629	0.000	0.000	0.000	0.63	0.63	0.63
n66 ANT4	Front side	0.524	0.272	0.244	0.045	0.80	0.77	0.57
	Back side	0.877	0.399	0.469	0.065	1.28	1.35	0.94
	Left side	0.105	0.056	0.093	0.009	0.16	0.20	0.11
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	1.026	0.212	0.468	0.035	1.24	1.49	1.06
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
	Front side	0.162	0.272	0.244	0.045	0.43	0.41	0.21



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 135 of 140

n77-3500 ANT3	Back side	0.181	0.399	0.469	0.065	0.58	0.65	0.25
	Left side	0.135	0.056	0.093	0.009	0.19	0.23	0.14
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.170	0.212	0.468	0.035	0.38	0.64	0.21
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
n77-3500 ANT5	Front side	0.238	0.272	0.244	0.045	0.51	0.48	0.28
	Back side	0.451	0.399	0.469	0.065	0.85	0.92	0.52
	Left side	0.000	0.056	0.093	0.009	0.06	0.09	0.01
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.398	0.212	0.468	0.035	0.61	0.87	0.43
n77-3900 ANT3	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
	Front side	0.122	0.272	0.244	0.045	0.39	0.37	0.17
	Back side	0.171	0.399	0.469	0.065	0.57	0.64	0.24
	Left side	0.212	0.056	0.093	0.009	0.27	0.31	0.22
	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
n77-3900 ANT5	Top side	0.221	0.212	0.468	0.035	0.43	0.69	0.26
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00
	Front side	0.306	0.272	0.244	0.045	0.58	0.55	0.35
	Back side	0.489	0.399	0.469	0.065	0.89	0.96	0.55
	Left side	0.000	0.056	0.093	0.009	0.06	0.09	0.01
n77-3900 ANT5	Right side	0.000	0.304	0.202	0.050	0.30	0.20	0.05
	Top side	0.488	0.212	0.468	0.035	0.70	0.96	0.52
	Bottom side	0.000	0.000	0.000	0.000	0.00	0.00	0.00

ENDC		SARmax (W/kg)					Summed SAR		
		WWAN	NR	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
LTE Band 12 ANT0 n66 ANT4	Front side	0.143	0.470	0.272	0.244	0.045	0.89	0.86	0.66
	Back side	0.250	0.470	0.399	0.469	0.065	1.12	1.19	0.79
	Left side	0.167	0.470	0.056	0.093	0.009	0.69	0.73	0.65
	Right side	0.249	0.470	0.304	0.202	0.050	1.02	0.92	0.77
	Top side	0.000	0.470	0.212	0.468	0.035	0.68	0.94	0.51
	Bottom side	0.179	0.470	0.000	0.000	0.000	0.65	0.65	0.65
LTE Band 2 ANT4 n66 ANT0	Front side	0.526	0.186	0.272	0.244	0.045	0.98	0.96	0.76
	Back side	0.526	0.519	0.399	0.469	0.065	1.44	1.51	1.11
	Left side	0.526	0.061	0.056	0.093	0.009	0.64	0.68	0.60
	Right side	0.526	0.082	0.304	0.202	0.050	0.91	0.81	0.66
	Top side	0.526	0.000	0.212	0.468	0.035	0.74	0.99	0.56
	Bottom side	0.526	0.629	0.000	0.000	0.000	1.16	1.16	1.16
LTE Band 2 ANT0 n78 ANT3(n77)	Front side	0.330	0.162	0.272	0.244	0.045	0.76	0.74	0.54
	Back side	0.441	0.181	0.399	0.469	0.065	1.02	1.09	0.69
	Left side	0.103	0.212	0.056	0.093	0.009	0.37	0.41	0.32
	Right side	0.109	0.000	0.304	0.202	0.050	0.41	0.31	0.16
	Top side	0.000	0.221	0.212	0.468	0.035	0.43	0.69	0.26
	Bottom side	0.446	0.000	0.000	0.000	0.000	0.45	0.45	0.45
LTE Band 2 ANT0 n78 ANT5(n77)	Front side	0.330	0.306	0.272	0.244	0.045	0.91	0.88	0.68
	Back side	0.441	0.489	0.399	0.469	0.065	1.33	1.40	1.00
	Left side	0.103	0.000	0.056	0.093	0.009	0.16	0.20	0.11



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 136 of 140

	Right side	0.109	0.000	0.304	0.202	0.050	0.41	0.31	0.16
	Top side	0.000	0.488	0.212	0.468	0.035	0.70	0.96	0.52
	Bottom side	0.446	0.000	0.000	0.000	0.000	0.45	0.45	0.45
LTE Band 41(38) ANT0 n78 ANT3(n77)	Front side	0.429	0.162	0.272	0.244	0.045	0.86	0.84	0.64
	Back side	0.561	0.181	0.399	0.469	0.065	1.14	1.21	0.81
	Left side	0.183	0.212	0.056	0.093	0.009	0.45	0.49	0.40
	Right side	0.103	0.000	0.304	0.202	0.050	0.41	0.31	0.15
	Top side	0.000	0.221	0.212	0.468	0.035	0.43	0.69	0.26
	Bottom side	0.392	0.000	0.000	0.000	0.000	0.39	0.39	0.39
LTE Band 41(38) ANT0 n78 ANT5(n77)	Front side	0.429	0.306	0.272	0.244	0.045	1.01	0.98	0.78
	Back side	0.561	0.489	0.399	0.469	0.065	1.45	1.52	1.12
	Left side	0.183	0.000	0.056	0.093	0.009	0.24	0.28	0.19
	Right side	0.103	0.000	0.304	0.202	0.050	0.41	0.31	0.15
	Top side	0.000	0.488	0.212	0.468	0.035	0.70	0.96	0.52
	Bottom side	0.392	0.000	0.000	0.000	0.000	0.39	0.39	0.39
LTE Band 5(26) ANT0 n66 ANT4	Front side	0.184	0.470	0.272	0.244	0.045	0.93	0.90	0.70
	Back side	0.354	0.470	0.399	0.469	0.065	1.22	1.29	0.89
	Left side	0.089	0.470	0.056	0.093	0.009	0.62	0.65	0.57
	Right side	0.143	0.470	0.304	0.202	0.050	0.92	0.82	0.66
	Top side	0.000	0.470	0.212	0.468	0.035	0.68	0.94	0.51
	Bottom side	0.298	0.470	0.000	0.000	0.000	0.77	0.77	0.77
LTE Band 26 ANT0 n41 ANT4	Front side	0.184	0.175	0.272	0.244	0.045	0.63	0.60	0.40
	Back side	0.354	0.262	0.399	0.469	0.065	1.02	1.09	0.68
	Left side	0.089	0.202	0.056	0.093	0.009	0.35	0.38	0.30
	Right side	0.143	0.000	0.304	0.202	0.050	0.45	0.35	0.19
	Top side	0.000	0.291	0.212	0.468	0.035	0.50	0.76	0.33
	Bottom side	0.298	0.000	0.000	0.000	0.000	0.30	0.30	0.30
LTE Band 5(26) ANT0 n78 ANT3(n77)	Front side	0.184	0.162	0.272	0.244	0.045	0.62	0.59	0.39
	Back side	0.354	0.181	0.399	0.469	0.065	0.93	1.00	0.60
	Left side	0.089	0.212	0.056	0.093	0.009	0.36	0.39	0.31
	Right side	0.143	0.000	0.304	0.202	0.050	0.45	0.35	0.19
	Top side	0.000	0.221	0.212	0.468	0.035	0.43	0.69	0.26
	Bottom side	0.298	0.000	0.000	0.000	0.000	0.30	0.30	0.30
LTE Band 5(26) ANT0 n78 ANT5(n77)	Front side	0.184	0.306	0.272	0.244	0.045	0.76	0.73	0.54
	Back side	0.354	0.489	0.399	0.469	0.065	1.24	1.31	0.91
	Left side	0.089	0.000	0.056	0.093	0.009	0.15	0.18	0.10
	Right side	0.143	0.000	0.304	0.202	0.050	0.45	0.35	0.19
	Top side	0.000	0.488	0.212	0.468	0.035	0.70	0.96	0.52
	Bottom side	0.298	0.000	0.000	0.000	0.000	0.30	0.30	0.30
LTE Band 66 ANT0 n41(n38) ANT4	Front side	0.286	0.175	0.272	0.244	0.045	0.73	0.71	0.51
	Back side	0.577	0.262	0.399	0.469	0.065	1.24	1.31	0.90
	Left side	0.079	0.202	0.056	0.093	0.009	0.34	0.37	0.29
	Right side	0.090	0.000	0.304	0.202	0.050	0.39	0.29	0.14
	Top side	0.000	0.291	0.212	0.468	0.035	0.50	0.76	0.33
	Bottom side	0.770	0.000	0.000	0.000	0.000	0.77	0.77	0.77
LTE Band 66 ANT0 n78 ANT3(n77)	Front side	0.286	0.162	0.272	0.244	0.045	0.72	0.69	0.49
	Back side	0.577	0.181	0.399	0.469	0.065	1.16	1.23	0.82
	Left side	0.079	0.212	0.056	0.093	0.009	0.35	0.38	0.30
	Right side	0.090	0.000	0.304	0.202	0.050	0.39	0.29	0.14
	Top side	0.000	0.221	0.212	0.468	0.035	0.43	0.69	0.26
	Bottom side	0.770	0.000	0.000	0.000	0.000	0.77	0.77	0.77



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Report No.: SEWM2304000137RG09
Rev.: 01
Page: 137 of 140

	Bottom side	0.770	0.000	0.000	0.000	0.000	0.77	0.77	0.77
LTE Band 66 ANT0 n78 ANT5(n77)	Front side	0.286	0.306	0.272	0.244	0.045	0.86	0.84	0.64
	Back side	0.577	0.489	0.399	0.469	0.065	1.47	1.54	1.13
	Left side	0.079	0.000	0.056	0.093	0.009	0.14	0.17	0.09
	Right side	0.090	0.000	0.304	0.202	0.050	0.39	0.29	0.14
	Top side	0.000	0.488	0.212	0.468	0.035	0.70	0.96	0.52
	Bottom side	0.770	0.000	0.000	0.000	0.000	0.77	0.77	0.77
LTE Band 66 ANT0 n7 ANT4	Front side	0.286	0.249	0.272	0.244	0.045	0.81	0.78	0.58
	Back side	0.577	0.249	0.399	0.469	0.065	1.23	1.30	0.89
	Left side	0.079	0.249	0.056	0.093	0.009	0.38	0.42	0.34
	Right side	0.090	0.249	0.304	0.202	0.050	0.64	0.54	0.39
	Top side	0.000	0.249	0.212	0.468	0.035	0.46	0.72	0.28
	Bottom side	0.770	0.249	0.000	0.000	0.000	1.02	1.02	1.02
LTE Band 7 ANT0 n78 ANT3(n77)	Front side	0.713	0.162	0.272	0.244	0.045	1.15	1.12	0.92
	Back side	0.569	0.181	0.399	0.469	0.065	1.15	1.22	0.82
	Left side	0.155	0.212	0.056	0.093	0.009	0.42	0.46	0.38
	Right side	0.086	0.000	0.304	0.202	0.050	0.39	0.29	0.14
	Top side	0.000	0.221	0.212	0.468	0.035	0.43	0.69	0.26
	Bottom side	0.342	0.000	0.000	0.000	0.000	0.34	0.34	0.34
LTE Band 7 ANT0 n78 ANT5(n77)	Front side	0.713	0.306	0.272	0.244	0.045	1.29	1.26	1.06
	Back side	0.569	0.489	0.399	0.469	0.065	1.46	1.53	1.12
	Left side	0.155	0.000	0.056	0.093	0.009	0.21	0.25	0.16
	Right side	0.086	0.000	0.304	0.202	0.050	0.39	0.29	0.14
	Top side	0.000	0.488	0.212	0.468	0.035	0.70	0.96	0.52
	Bottom side	0.342	0.000	0.000	0.000	0.000	0.34	0.34	0.34
LTE Band 7 ANT4 n5 ANT0	Front side	0.533	0.184	0.272	0.244	0.045	0.99	0.96	0.76
	Back side	0.533	0.354	0.399	0.469	0.065	1.29	1.36	0.95
	Left side	0.533	0.089	0.056	0.093	0.009	0.68	0.72	0.63
	Right side	0.533	0.143	0.304	0.202	0.050	0.98	0.88	0.73
	Top side	0.533	0.000	0.212	0.468	0.035	0.75	1.00	0.57
	Bottom side	0.533	0.298	0.000	0.000	0.000	0.83	0.83	0.83

UL_CA		SARmax (W/kg)					Summed SAR		
		WWAN	WWAN	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
LTE Band 2 ANT4 LTE Band 4(66) ANT0	Front side	0.526	0.286	0.272	0.244	0.045	1.08	1.06	0.86
	Back side	0.526	0.577	0.399	0.469	0.065	1.50	1.57	1.17
	Left side	0.526	0.079	0.056	0.093	0.009	0.66	0.70	0.61
	Right side	0.526	0.090	0.304	0.202	0.050	0.92	0.82	0.67
	Top side	0.526	0.000	0.212	0.468	0.035	0.74	0.99	0.56
	Bottom side	0.526	0.770	0.000	0.000	0.000	1.30	1.30	1.30
LTE Band 4(66) ANT0 LTE Band 7 ANT4	Front side	0.286	0.533	0.272	0.244	0.045	1.09	1.06	0.86
	Back side	0.577	0.533	0.399	0.469	0.065	1.51	1.58	1.18
	Left side	0.079	0.533	0.056	0.093	0.009	0.67	0.71	0.62
	Right side	0.090	0.533	0.304	0.202	0.050	0.93	0.83	0.67
	Top side	0.000	0.533	0.212	0.468	0.035	0.75	1.00	0.57
	Bottom side	0.770	0.533	0.000	0.000	0.000	1.30	1.30	1.30



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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 138 of 140

Simultaneous Transmission SAR Summation Scenario for Product specific 10g SAR:

Test position	SARmax (W/kg)		Summed SAR
	WiFi 5G Ant6	NFC Ant8	
	1	2	
Front side	0.351	0.001	0.352
Back side	0.744	0.026	0.770
Left side	0.091	0.001	0.092
Right side	0.104	0.001	0.105
Top side	0.773	0.001	0.774
Bottom side	-	0.001	0.001



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Report No.: SEWM2304000137RG09

Rev.: 01

Page: 139 of 140

9 Equipment list

Test Platform		SPEAG DASY8 Professional				
Description		SAR Test System (Frequency range 10MHz-10GHz)				
Software Reference		DASY8 Module SAR V16.2.0.1425				
Hardware Reference						
Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	Twin Phantom	SPEAG	SAM	2103	NCR	NCR
☒	Twin Phantom	SPEAG	EL4	1143	NCR	NCR
☒	DAE	SPEAG	DAE4	1740	2022-08-03	2023-08-02
☒	DAE	SPEAG	DAE4	1324	2022-10-17	2023-10-16
☒	E-Field Probe	SPEAG	EX3DV4	7735	2022-08-09	2023-08-08
☒	E-Field Probe	SPEAG	EX3DV4	3793	2022-09-30	2023-09-29
☒	Validation Kits	SPEAG	CLA13	1032	2023-02-09	2024-02-08
☒	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07
☒	Validation Kits	SPEAG	D835V2	4d161	2020-08-28	2023-08-27
☒	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28
☒	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26
☒	Validation Kits	SPEAG	D2450V2	922	2020-08-27	2023-08-26
☒	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11
☒	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16
☒	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19
☒	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	1148	2023-03-20	2024-03-19
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	21460031	2023-03-20	2024-03-19
☒	Dielectric parameter probes	SPEAG	DAKS-12	1043	2022-06-20	2023-06-19
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R60	21423005	2022-06-17	2023-06-16
☒	Universal Radio Communication Tester	R&S	CMW500	111637	2022-09-26	2023-09-26
☒	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
☒	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05
☒	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
☒	Power Sensor	Keysight	U2002H	MY5639004	2022-9-16	2023-09-15
☒	Power Sensor	Keysight	U2002H	MY48200110	2022-12-23	2023-12-22
☒	Attenuator	SHX	TS2-3dB	30704	NCR	NCR



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Report No.: SEWM2304000137RG09
 Rev.: 01
 Page: 140 of 140

☒	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
☒	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
☒	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
☒	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2022-09-19	2023-09-18
☒	Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-09-19	2023-09-18

Note: All the equipments are within the valid period when the tests are performed.

10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

---END---



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