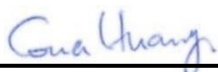


FCC SAR TEST REPORT

FCC ID : A4RGK2MP
Equipment : Phone
Model Name : GK2MP, GL066
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Dec. 06, 2024 and testing was started from Jan. 22, 2025 and completed on Mar. 19, 2025. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



Table of Contents

1. Statement of Compliance.....	4
2. Equipment Under Test (EUT) Information.....	5
2.1 General Information.....	5
2.2 Maximum Tune-up Limit.....	6
2.3 General LTE SAR Test and Reporting Considerations.....	21
2.4 General 5G NR SAR Test and Reporting Considerations.....	24
3. TAS feature for RF Exposure compliance.....	27
3.1 SAR Characterization – Power Table.....	28
4. Guidance Applied.....	31
5. RF Exposure Limits.....	31
5.1 Uncontrolled Environment.....	31
5.2 Controlled Environment.....	31
5.3 RF Exposure limit for above 6GHz.....	32
6. Specific Absorption Rate (SAR).....	32
6.1 Introduction.....	32
6.2 SAR Definition.....	32
7. System Description and Setup.....	33
7.1 Test Site Location.....	33
7.2 E-Field Probe.....	34
7.3 Data Acquisition Electronics (DAE).....	34
7.4 Phantom.....	35
7.5 Device Holder.....	36
8. Measurement Procedures.....	37
8.1 Spatial Peak SAR Evaluation.....	37
8.2 Power Reference Measurement.....	38
8.3 Area Scan.....	38
8.4 Zoom Scan.....	39
8.5 Volume Scan Procedures.....	39
8.6 Power Drift Monitoring.....	39
9. Test Equipment List.....	40
10. System Verification.....	42
10.1 Tissue Verification.....	42
10.2 System Performance Check Results.....	45
10.3 PD System Performance Check Results.....	49
11. RF Exposure Positions.....	50
11.1 Ear and handset reference point.....	50
11.2 Definition of the cheek position.....	51
11.3 Definition of the tilt position.....	52
11.4 Body Worn Accessory.....	52
11.5 Product Specific Exposure.....	53
11.6 Wireless Router.....	53
12. Data Reuse Approach.....	54
13. Spot Check SAR Results.....	55
13.1 Head SAR.....	55
13.2 Hotspot SAR.....	61
13.3 Body-Worn SAR.....	65
13.4 Product Specific SAR.....	71
14. WiFi Output Power (Unit: dBm).....	73
15. RF Exposure position consideration.....	83
16. SAR Test Results.....	84
16.1 Head SAR.....	85
16.2 Hotspot SAR.....	86
16.3 Body Worn Accessory SAR.....	86
16.4 Product Specific SAR.....	87
16.5 6GHz PD Test Result.....	88
17. Uncertainty Assessment.....	89
18. References.....	92
Appendix A. Plots of System Performance Check	
Appendix B. Plots of High SAR Measurement	
Appendix C. DASY Calibration Certificate	
Appendix D. Sim-Tx SAR consideration and Spatial TAS Verification	
Appendix E. Test Setup Photos and Antenna Location	

History of this test report

Report No.	Version	Description	Issued Date
FA4N0919-01B	01	Initial issue of report	Apr. 22, 2025
FA4N0919-01B	02	Update section 2.2	Apr. 25, 2025
FA4N0919-01B	03	Update section 2.2, 3.1, 13.2 and 13.3	Jun. 06, 2025

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Google LLC, Phone, GK2MP, GL066, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
		Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)		
		1g SAR (W/kg)			10g SAR (W/kg)		
Licensed	GSM850	0.84	0.90	0.73		1.59	2.47
	GSM1900	0.59	0.96	0.73			
	WCDMA II	0.64	0.87	0.77	1.85		
	WCDMA IV	0.59	0.77	0.84			
	WCDMA V	0.90	0.76	0.76			
	LTE B7	0.82	0.91	0.82	2.17		
	LTE B12/B17	0.80	0.41	0.44			
	LTE B13	0.84	0.39	0.50			
	LTE B14	0.90	0.44	0.47			
	LTE B25/B2	0.83	0.99	0.73	1.84		
	LTE B26/B5	0.80	0.61	0.54			
	LTE B30	0.66	0.76	0.84	2.34		
	LTE B38	0.76	0.43	0.54			
	LTE B41	0.72	0.97	0.82	2.46		
	LTE B48	0.17	0.32	0.61			
	LTE B66/B4	0.98	0.82	0.83			
	LTE B71	0.92	0.33	0.42			
	FR1 n7	0.91	0.99	0.84	2.40		
	FR1 n12	0.92	0.36	0.51			
	FR1 n14	0.92	0.40	0.49			
	FR1 n25/n2	0.92	0.99	0.84	1.82		
	FR1 n26/n5	0.92	0.64	0.64			
	FR1 n30	0.57	0.76	0.76			
	FR1 n38	0.91	0.69	0.78			
	FR1 n41	0.89	0.97	0.84	2.34		
	FR1 n66	0.91	0.99	0.84			
	FR1 n71	0.86	0.33	0.51			
	FR1 n77/n78	0.96	0.57	0.70			
	NTN B23		0.86		2.47		
	NTN B255		0.54		2.45		
DTS	2.4GHz WLAN	1.17	0.52	0.33		1.59	
NII	5GHz WLAN	1.18	0.50	0.40	1.81	1.59	2.47
6CD	6GHz WLAN	0.61	0.20	0.08	0.68	1.59	2.47
DSS	Bluetooth	0.30	0.35	0.32		1.59	
DXX	NFC				0.02		2.47
Equipment Class	Frequency Band	Head Reported APD (mW/cm^2)	Body-worn Reported APD (mW/cm^2)	Hotspot Reported APD (mW/cm^2)	Product Specific Reported APD (mW/cm^2)	Reported PD (mW/cm^2)	
6CD	6GHz WLAN	0.43	0.17	0.06	1.59	0.73	
Date of Testing:		2025/1/17 ~ 2025/3/19					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093), Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang
Report Producer: Carlie Tsai



2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Applicant Name	Google LLC
Equipment Name	Phone
Model Name	GK2MP, GL066
FCC ID	A4RGK2MP
S/N	4C271FDCR000SB, 4C271FDCR0011B, 4B161FDCR000TK, 4B141FDCR0003K, 4C271FDCR000HZ, 4C271FDCR000SB, 4C271FDCR0011B
Frequency Band	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz 5G NR n258 : 24.25 GHz~24.45 GHz, 24.75GHz ~25.25GHz 5G NR n260 : 37 GHz~40 GHz 5G NR n261 : 27.5 GHz~28.35 GHz NTN Band 23: 2000 MHz ~2020 MHz NTN Band 255: 1626.5 MHz ~ 1660.5 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz WLAN 6 GHz Band: 5925 MHz ~ 6425 MHz, 6425 MHz~6525 MHz, 6525 MHz~6875 MHz, 6875 MHz~7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz WPC: 110 kHz ~ 148.5 kHz(Rx)

Mode	GSM/GPRS/EGPRS UMTS: RMC/AMR 12.2Kbps, HSDPA, HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM NTN: BPSK, QPSK 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE/CS NFC: ASK WPC: ASK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
Remark: - Dynamic antenna tuning mechanism is available at Ant. 0/2, for its < 3GHz LTE and NR band, and the supplemental antenna tuner test results were including in parent model FCC ID: A4RGLBW0 Part1 SAR report appendix G, details are illustrated in the operational description. - This device WLAN 2.4GHz / 5.2GHz / 5.8GHz and 6GHz VLP supports Hotspot operation and Bluetooth support tethering applications. - The device implements the power management and sensor detection for SAR compliance at different exposure conditions (head, body-worn, hotspot and product specific, the TAS feature will manage to ensure the power level not exceeding the associated power table. Also device implement Spatial TAS predefine antenna group to analysis simultaneous transmission include in appendix D. - The device implements the sensor detection for SAR compliance and the power verification include in parent model FCC ID: A4RGLBW0 Part1 SAR report appendix E. - The device additionally supports uplink MIMO on n41/n77/n78, due to UL MIMO antenna operating on different antenna groups, therefore TAS validation is not required. - The PC1.5 only support uplink MIMO.	

2.2 Maximum Tune-up Limit

General Note:

- In the report PC3 as power class3, PC2 as power class2, PC1.5 as power class1.5.
- For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition.
- The following table shows maximum output power configurations for various exposure conditions (output power index) with tune-up tolerance accounted. For TAS enabled bands, the values associate with Plimit plus the total uncertainty, or Pmax plus total uncertainty when the derived Plimit is higher than Pmax. In some frequency bands, for some power indexes which associate with the same power level, conducted power measurement for those only need to perform at once. Detail output power measurement refer to A4RGLBW0 Part1 SAR report appendix D.
- The index 1 is for the max power conditions, and the use case were evaluated in A4RGLBW0 Part1 SAR report appendix G.
- SAR compliance for the scenario, when device in next-to-ear voice call with hotspot enabled, is justified via head SAR test at Power Index 3.
- The PC1.5 NR SAR was not required, due to PC1.5 operate in the time-averaged and burst transmission power is less than PC2, therefore, only PC2 was performed on the highest SAR test configuration in PC3, and use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%.
- The PC1.5 only support uplink MIMO configuration, and which per chain target power of uplink MIMO associated with PC2 power level so that the combined total power of uplink MIMO power achieve to Power class 1.5 level

Support transmit antenna and band	
Ant Config Tx0	ANT 0: GSM850, UMTS B5, LTE B5/B12/B13/B14/B17/B26/B71, NR n5/n12/n14/n26/n71
	ANT 1: LTE B2/B4/B25/B66, NR n2/n25/n38/n41/n66/n77/n78, NTN B23
	ANT 2: GSM1900, UMTS B2/B4, LTE B2/B4/B7/B25/B30/B38/B41/B66, NR n2/n7/n25/n30/n38/n41/n66
	ANT 4: NTN B255
	ANT 6: LTE B48, NR n77/n78
Ant Config Tx1	ANT 0: GSM1900, UMTS B2/B4, LTE B2/B4/B7/B25/B30/B38/B41/B66, NR n2/n7/n25/n30/n38/n41/n66
	ANT 1: GSM850, UMTS B5, LTE B5/B12/B13/B14/B17/B26/B71, NR n5/n12/n14/n26/n71
	ANT 5: LTE B2/B4/B25/B66, NR n2/n25/n38/n41/n66/n77/n78
	ANT 7: LTE B48, NR n77/n78

Maximum Transmit Burst Average Power (dBm)								
Wireless technology	Mode	Antenna	Maximum Power Condition	Head	Head	Hotspot	Body-worn/Extremity	Body-worn/Extremity
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
			Index 1	Index 2	Index 3	Index 4	Index 5	Index 6
GSM850	GSM/GPRS 1TX	Ant0	33.50	33.50	33.50	33.50	33.50	33.50
	GPRS 2TX		32.30	32.30	32.20	31.90	32.30	32.10
	GPRS 3TX		31.30	31.30	30.40	30.10	31.00	30.30
	GPRS 4TX		30.30	30.30	29.20	28.90	29.80	29.10
	EDGE 1TX		27.30	27.30	27.30	27.30	27.30	27.30
	EDGE 2TX		26.30	26.30	26.30	26.30	26.30	26.30
	EDGE 3TX		25.30	25.30	25.30	25.30	25.30	25.30
	EDGE 4TX		24.30	24.30	24.30	24.30	24.30	24.30
GSM850	GSM/GPRS 1TX	Ant1	33.10	31.20	30.50	33.10	33.10	33.10
	GPRS 2TX		32.30	28.30	27.60	31.10	31.80	31.10
	GPRS 3TX		31.30	26.50	25.80	29.30	30.00	29.30
	GPRS 4TX		30.30	25.30	24.60	28.10	28.80	28.10
	EDGE 1TX		27.10	27.10	27.10	27.10	27.10	27.10
	EDGE 2TX		26.30	26.30	26.30	26.30	26.30	26.30
	EDGE 3TX		25.30	25.30	25.30	25.30	25.30	25.30
	EDGE 4TX		24.30	24.30	24.30	24.30	24.30	24.30
GSM1900	GSM/GPRS 1TX	Ant2	30.40	30.40	30.40	30.40	30.40	30.40
	GPRS 2TX		28.90	28.90	28.90	28.90	28.90	28.90
	GPRS 3TX		28.40	28.40	28.40	27.90	28.40	28.20
	GPRS 4TX		27.40	27.40	27.40	26.70	27.40	27.00
	EDGE 1TX		26.40	26.40	26.40	26.40	26.40	26.40
	EDGE 2TX		25.40	25.40	25.40	25.40	25.40	25.40
	EDGE 3TX		24.40	24.40	24.40	24.40	24.40	24.40
	EDGE 4TX		23.40	23.40	23.40	23.40	23.40	23.40
GSM1900	GSM/GPRS 1TX	Ant0	29.60	29.60	29.60	27.30	29.30	28.60
	GPRS 2TX		28.20	28.20	28.20	24.40	26.40	25.70
	GPRS 3TX		27.70	27.70	27.70	22.60	24.60	23.90
	GPRS 4TX		26.70	26.70	26.70	21.40	23.40	22.70
	EDGE 1TX		25.60	25.60	25.60	25.60	25.60	25.60
	EDGE 2TX		24.70	24.70	24.70	24.40	24.70	24.70
	EDGE 3TX		23.70	23.70	23.70	22.60	23.70	23.70
	EDGE 4TX		22.70	22.70	22.70	21.40	22.70	22.70



Maximum Transmit Burst Average Power (dBm)								
Wireless technology	Mode	Antenna	Maximum Power Condition	Head	Head	Hotspot	Body-worn/Extremity	Body-worn/Extremity
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
			Index 1	Index 2	Index 3	Index 4	Index 5	Index 6
WCDMA B2	R99/HSPA	Ant2	25.50	25.50	25.50	23.10	23.80	23.10
WCDMA B2	R99/HSPA	Ant0	25.50	25.50	25.50	18.00	20.60	19.90
WCDMA B4	R99/HSPA	Ant2	25.50	25.50	25.50	22.50	23.20	22.50
WCDMA B4	R99/HSPA	Ant0	25.50	25.50	25.50	19.70	21.20	20.50
WCDMA B5	R99/HSPA	Ant0	25.50	25.50	25.50	25.50	25.50	25.50
WCDMA B5	R99/HSPA	Ant1	25.50	23.40	22.70	25.50	25.50	25.50
LTE B7	PC3	Ant2	25.00	25.00	24.20	20.90	21.60	20.90
CA_7C	PC3	Ant2	24.50	24.50	24.20	20.90	21.60	20.90
LTE B7	PC3	Ant0	25.00	25.00	25.00	19.80	22.00	21.30
CA_7C	PC3	Ant0	24.50	24.50	24.50	19.80	22.00	21.30
LTE B12/B17	PC3	Ant0	25.00	25.00	25.00	25.00	25.00	25.00
LTE B12/B17	PC3	Ant1	25.00	23.80	23.10	25.00	25.00	25.00
LTE B13	PC3	Ant0	25.00	25.00	25.00	23.60	25.00	25.00
LTE B13	PC3	Ant1	25.00	23.90	23.20	23.70	25.00	25.00
LTE B14	PC3	Ant0	25.00	25.00	25.00	23.50	25.00	25.00
LTE B14	PC3	Ant1	25.00	24.00	23.20	23.90	25.00	25.00
LTE B25/B2	PC3	Ant2	25.00	25.00	25.00	21.10	21.80	21.10
LTE B25/B2	PC3	Ant0	25.00	25.00	25.00	17.60	20.20	19.50
LTE B25/B2	PC3	Ant1	25.00	18.40	17.70	21.30	22.50	21.80
LTE B25/B2	PC3	Ant5	24.60	20.00	19.00	22.50	23.20	22.50
LTE B26/B5	PC3	Ant0	25.00	25.00	25.00	24.50	25.00	25.00
CA_5B	PC3	Ant0	24.00	24.00	24.00	24.00	24.00	24.00
LTE B26/B5	PC3	Ant1	25.00	23.50	22.40	25.00	25.00	25.00
CA_5B	PC3	Ant1	24.00	23.50	22.40	24.00	24.00	24.00
LTE B30	PC3	Ant2	23.80	23.80	23.80	20.50	21.20	20.50
LTE B30	PC3	Ant0	21.50	21.50	21.50	19.60	21.20	20.50
LTE B41/B38	PC3	Ant2	25.10	25.10	24.70	22.00	22.70	22.00
LTE B41/B38	PC2	Ant2	26.90	26.90	26.20	23.50	24.20	23.50
CA_41C/38C	PC3	Ant2	24.50	24.50	24.50	22.00	22.70	22.00
LTE B41/B38	PC3	Ant0	25.10	25.10	25.10	21.80	24.10	23.40
LTE B41/B38	PC2	Ant0	26.70	26.70	26.70	23.10	25.40	24.70
CA_41C/38C	PC3	Ant0	24.50	24.50	24.50	21.80	24.10	23.40
LTE B48	PC3	Ant6	21.00	21.00	21.00	21.00	21.00	21.00
LTE B48	PC3	Ant7	23.30	23.30	23.30	21.30	22.00	21.30
LTE B66/B4	PC3	Ant2	25.00	25.00	25.00	22.30	23.00	22.30
CA_66B/66C	PC3	Ant2	24.50	24.50	24.50	22.30	23.00	22.30
LTE B66/B4	PC3	Ant0	25.00	25.00	25.00	19.30	20.70	20.00
CA_66B/66C	PC3	Ant0	24.50	24.50	24.50	19.30	20.70	20.00
LTE B66/B4	PC3	Ant1	25.00	16.70	15.50	21.50	22.20	21.50
LTE B66/B4	PC3	Ant5	24.60	20.60	19.40	23.30	24.00	23.30
LTE B71	PC3	Ant0	25.00	25.00	25.00	25.00	25.00	25.00
LTE B71	PC3	Ant1	25.00	24.30	23.40	25.00	25.00	25.00
FR1 n7	PC3	Ant2	25.00	24.30	23.10	21.50	22.80	22.10
FR1 n7	PC3	Ant0	25.00	25.00	25.00	19.50	21.60	20.90
FR1 n12	PC3	Ant0	25.00	25.00	25.00	24.50	25.00	25.00
FR1 n12	PC3	Ant1	25.00	23.30	22.40	25.00	25.00	25.00
FR1 n14	PC3	Ant0	25.00	25.00	25.00	23.70	25.00	25.00
FR1 n14	PC3	Ant1	25.00	23.30	22.40	24.00	25.00	25.00
FR1 n25/n2	PC3	Ant2	25.00	25.00	25.00	21.60	22.30	21.60
FR1 n25/n2	PC3	Ant0	25.00	25.00	25.00	18.10	20.20	19.50
FR1 n25/n2	PC3	Ant1	25.00	15.60	14.70	20.50	21.20	20.50



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

FR1 n25/n2	PC3	Ant5	25.00	19.80	18.60	21.70	22.50	21.80
FR1 n26/n5	PC3	Ant0	25.00	25.00	25.00	25.00	25.00	25.00
FR1 n26/n5	PC3	Ant1	25.00	22.90	22.00	25.00	25.00	25.00
FR1 n30	PC3	Ant2	23.80	23.80	23.80	20.50	21.20	20.50
FR1 n30	PC3	Ant0	21.50	21.50	21.50	19.80	21.50	21.40
FR1 n41/n38	PC3	Ant2	25.00	24.00	22.80	21.80	22.50	21.80
FR1 n41	PC2	Ant2	26.90	26.90	25.80	24.80	25.50	24.80
FR1 n41	PC1.5	Ant2	26.40	26.40	25.80	24.80	25.50	24.80
FR1 n41/n38	PC3	Ant0	25.00	25.00	25.00	20.10	22.30	21.60
FR1 n41	PC2	Ant0	26.70	26.70	26.70	23.00	25.20	24.50
FR1 n41	PC1.5	Ant0	25.40	25.40	25.40	23.00	25.20	24.50
FR1 n41/n38	PC3	Ant1	25.00	17.90	16.70	22.20	22.90	22.20
FR1 n41	PC2	Ant1	26.90	20.90	19.70	25.20	25.90	25.20
FR1 n41	PC1.5	Ant1	25.60	20.90	19.70	25.20	25.60	25.20
FR1 n41/n38	PC3	Ant5	25.00	17.10	15.90	23.20	23.90	23.20
FR1 n41	PC2	Ant5	26.70	19.90	18.70	26.00	26.70	26.00
FR1 n41	PC1.5	Ant5	25.40	19.90	18.70	25.40	25.40	25.40
FR1 n66	PC3	Ant2	25.00	25.00	25.00	22.30	23.00	22.30
FR1 n66	PC3	Ant0	25.00	25.00	25.00	19.70	21.20	20.50
FR1 n66	PC3	Ant1	25.00	16.50	15.60	21.90	22.60	21.90
FR1 n66	PC3	Ant5	25.00	21.00	19.80	22.50	23.20	22.50
FR1 n71	PC3	Ant0	25.00	25.00	25.00	25.00	25.00	25.00
FR1 n71	PC3	Ant1	25.00	24.40	23.70	25.00	25.00	25.00
FR1 n77/n78	PC3	Ant6	25.00	25.00	24.40	19.50	20.40	19.70
FR1 n77/n78	PC2	Ant6	27.00	27.00	27.00	22.50	23.40	22.70
FR1 n77/n78	PC1.5	Ant6	26.50	26.50	26.50	22.50	23.40	22.70
FR1 n77/n78	PC3	Ant7	24.50	24.50	23.70	19.10	19.80	19.10
FR1 n77/n78	PC2	Ant7	26.50	26.50	26.50	22.10	22.80	22.10
FR1 n77/n78	PC1.5	Ant7	26.00	26.00	26.00	22.10	22.80	22.10
FR1 n77/n78	PC3	Ant1	25.00	14.70	13.50	17.10	20.00	19.30
FR1 n77/n78	PC2	Ant1	27.00	17.70	16.50	20.10	23.00	22.30
FR1 n77/n78	PC1.5	Ant1	26.50	17.70	16.50	20.10	23.00	22.30
FR1 n77/n78	PC3	Ant5	24.50	17.60	16.90	24.00	24.50	24.00
FR1 n77/n78	PC2	Ant5	26.50	20.60	19.90	26.50	26.50	26.50
FR1 n77/n78	PC1.5	Ant5	26.00	20.60	19.90	26.00	26.00	26.00
NTN B23	PC3	Ant1	23.50				22.30	
NTN B255	PC3	Ant4	24.50				21.80	



<WLAN Maximum Power>

General Note:

1. The device implements the power management for WLAN SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases. Full details about the proprietary power management decision are illustrated in the operational description.
2. 4+3(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
3. 4+3(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4

Burst Average Power (dBm)																				
2.4GHz Mode (CDD/SDB)	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11b (SISO)	1	2412	21.50	22.00	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	21.50	22.00	21.50	22.00	18.00	18.00	16.50	16.50
	6	2437	21.50	22.00	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	21.50	22.00	21.50	22.00	18.00	18.00	16.50	16.50
	11	2462	21.50	21.50	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	21.50	21.50	21.50	21.50	18.00	18.00	16.50	16.50
	12	2467	20.50	21.50	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	20.50	21.50	20.50	21.50	18.00	18.00	16.50	16.50
	13	2472	20.00	19.00	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	20.00	19.00	20.00	19.00	18.00	18.00	16.50	16.50

Burst Average Power (dBm)																				
2.4GHz Mode (CDD/SDB)	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11g (MIMO)	1	2412	18.00	18.00	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	18.00	18.00	18.00	18.00	18.00	18.00	16.50	16.50
	2	2417	20.00	20.00																
	6	2437	21.50	21.50	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	21.50	21.50	21.50	21.50	18.00	18.00	16.50	16.50
	9	2452	19.00	19.00																
	10	2457	18.00	18.00																
	11	2462	15.50	15.50	15.50	15.50	15.50	15.50	13.50	13.50	10.00	10.00	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	12	2467	14.50	14.50	14.50	14.50	14.50	14.50	13.50	13.50	10.00	10.00	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
	13	2472	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
802.11n HT20 (MIMO)	1	2412	16.00	16.00	16.00	16.00	16.00	16.00	13.50	13.50	10.00	10.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	2	2417	19.00	19.00																
	6	2437	21.00	21.00	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	21.00	21.00	21.00	21.00	18.00	18.00	16.50	16.50
	9	2452	19.00	19.00																
	10	2457	18.00	18.00																
	11	2462	15.00	15.00	14.00	14.00	14.00	14.00	13.50	13.50	10.00	10.00	15.00	15.00	15.00	15.00	14.00	14.00	14.00	14.00
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	13.50	13.50	10.00	10.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	13	2472	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
802.11ac VHT20 (MIMO)	1	2412	16.00	16.00	16.00	16.00	16.00	16.00	13.50	13.50	10.00	10.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	2	2417	19.00	19.00																
	6	2437	21.00	21.00	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	21.00	21.00	21.00	21.00	18.00	18.00	16.50	16.50
	9	2452	19.00	19.00																
	10	2457	18.00	18.00																
	11	2462	15.00	15.00	14.00	14.00	14.00	14.00	13.50	13.50	10.00	10.00	15.00	15.00	15.00	15.00	14.00	14.00	14.00	14.00
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	13.50	13.50	10.00	10.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	13	2472	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
802.11ax HE20 (MIMO)	1	2412	16.00	16.00	16.00	16.00	16.00	16.00	13.50	13.50	10.00	10.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	2	2417	19.00	19.00																
	6	2437	21.00	21.00	17.50	17.50	16.00	16.00	13.50	13.50	10.00	10.00	21.00	21.00	21.00	21.00	18.00	18.00	16.50	16.50
	9	2452	19.00	19.00																
	10	2457	18.00	18.00																
	11	2462	15.00	15.00	14.00	14.00	14.00	14.00	13.50	13.50	10.00	10.00	15.00	15.00	15.00	15.00	14.00	14.00	14.00	14.00
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	13.50	13.50	10.00	10.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	13	2472	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50

5.2GHz Mode (CDD/SDB)	Channel	Frequency (MHz)	Burst Average Power (dBm)																	
			Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	36	5180	16.00	16.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	40	5200	17.50	17.50	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	17.50	17.50	17.50	17.50	17.50	17.50	17.00	17.00
	44	5220	18.00	18.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	18.00	18.00	18.00	18.00	18.00	18.00	17.00	17.00
802.11n HT20 (MIMO)	48	5240	16.50	16.50	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	16.50	16.50	16.50	16.50	16.50	16.50	15.50	15.50
	36	5180	14.50	14.50	14.50	14.50	13.50	13.50	13.50	13.50	10.00	10.00	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
	40	5200	17.00	17.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
802.11n HT40 (MIMO)	44	5220	18.00	18.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	18.00	18.00	18.00	18.00	18.00	18.00	17.00	17.00
	48	5240	16.00	16.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	16.00	16.00	16.00	16.00	16.00	16.00	15.50	15.50
	38	5190	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	10.00	10.00	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
802.11ac VHT20 (MIMO)	46	5230	15.50	15.50	15.50	15.50	13.50	13.50	13.50	13.50	10.00	10.00	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	36	5180	14.50	14.50	14.50	14.50	13.50	13.50	13.50	13.50	10.00	10.00	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
	40	5200	17.00	17.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
802.11ac VHT40 (MIMO)	44	5220	18.00	18.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	18.00	18.00	18.00	18.00	18.00	18.00	17.00	17.00
	48	5240	16.00	16.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	16.00	16.00	16.00	16.00	16.00	16.00	15.50	15.50
	38	5190	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	10.00	10.00	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
802.11ac VHT80 (MIMO)	46	5230	15.50	15.50	15.50	15.50	13.50	13.50	13.50	13.50	10.00	10.00	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	42	5210	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	10.00	10.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	36	5180	14.50	14.50	14.50	14.50	13.50	13.50	13.50	13.50	10.00	10.00	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
802.11ax HE20 (MIMO)	40	5200	17.00	17.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
	44	5220	18.00	18.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	18.00	18.00	18.00	18.00	18.00	18.00	17.00	17.00
	48	5240	16.00	16.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	16.00	16.00	16.00	16.00	16.00	16.00	15.50	15.50
802.11ax HE40 (MIMO)	38	5190	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	10.00	10.00	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
	46	5230	15.50	15.50	15.50	15.50	13.50	13.50	13.50	13.50	10.00	10.00	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	42	5210	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	10.00	10.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
802.11ax HE80 (MIMO)	42	5210	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	10.00	10.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00

5.3GHz Mode (CDD/SDB)	Channel	Frequency (MHz)	Burst Average Power (dBm)																	
			Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	52	5260	19.00	19.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	19.00	19.00	19.00	19.00	19.00	19.00	18.00	18.00
	56	5280	19.00	19.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	19.00	19.00	19.00	19.00	19.00	19.00	18.00	18.00
	60	5300	17.50	17.50	15.00	15.00	13.50	13.50	13.50	13.50	10.00	10.00	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	64	5320	16.00	16.00	15.00	15.00	13.50	13.50	13.50	13.50	10.00	10.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
802.11n HT20 (MIMO)	52	5260	19.00	19.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	19.00	19.00	19.00	19.00	19.00	19.00	18.00	18.00
	56	5280	19.00	19.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	19.00	19.00	19.00	19.00	19.00	19.00	18.00	18.00
	60	5300	17.00	17.00	15.00	15.00	13.50	13.50	13.50	13.50	10.00	10.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
	64	5320	15.00	15.00	15.00	15.00	13.50	13.50	13.50	13.50	10.00	10.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
802.11n HT40 (MIMO)	54	5270	16.50	16.50	15.50	15.50	13.50	13.50	13.50	13.50	10.00	10.00	16.50	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	62	5310	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	10.00	10.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
802.11ac VHT20 (MIMO)	52	5260	19.00	19.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	19.00	19.00	19.00	19.00	19.00	19.00	18.00	18.00
	56	5280	19.00	19.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	19.00	19.00	19.00	19.00	19.00	19.00	18.00	18.00
	60	5300	17.00	17.00	15.00	15.00	13.50	13.50	13.50	13.50	10.00	10.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
	64	5320	15.00	15.00	15.00	15.00	13.50	13.50	13.50	13.50	10.00	10.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
802.11ac VHT40 (MIMO)	54	5270	16.50	16.50	15.50	15.50	13.50	13.50	13.50	13.50	10.00	10.00	16.50	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	62	5310	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	10.00	10.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
802.11ac VHT80 (MIMO)	58	5290	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	10.00	10.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
802.11ax HE20 (MIMO)	52	5260	19.00	19.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	19.00	19.00	19.00	19.00	19.00	19.00	18.00	18.00
	56	5280	19.00	19.00	16.00	16.00	13.50	13.50	13.50	13.50	10.00	10.00	19.00	19.00	19.00	19.00	19.00	19.00	18.00	18.00
	60	5300	17.00	17.00	15.00	15.00	13.50	13.50	13.50	13.50	10.00	10.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
	64	5320	15.00	15.00	15.00	15.00	13.50	13.50	13.50	13.50	10.00	10.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
802.11ax HE40 (MIMO)	54	5270	16.50	16.50	15.50	15.50	13.50	13.50	13.50	13.50	10.00	10.00	16.50	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	62	5310	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	10.00	10.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
802.11ax HE80 (MIMO)	58	5290	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	10.00	10.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00



TEL : 886-3-327-3456
FAX : 886-3-328-4978
Template version: 240125

5.8GHz Mode (CDD/SDB)	Channel	Frequency (MHz)	Burst Average Power (dBm)																	
			Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	149	5745	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	157	5785	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	165	5825	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
802.11n HT20 (MIMO)	149	5745	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	157	5785	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	165	5825	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
802.11n HT40 (MIMO)	151	5755	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	159	5795	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
802.11ac VHT20 (MIMO)	149	5745	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	157	5785	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	165	5825	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
802.11ac VHT40 (MIMO)	151	5755	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	159	5795	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
802.11ac VHT80 (MIMO)	155	5775	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	18.00	18.00	18.00	18.00	17.00	17.00	15.50	15.50
802.11ax HE20 (MIMO)	149	5745	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	157	5785	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	165	5825	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
802.11ax HE40 (MIMO)	151	5755	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
	159	5795	19.00	19.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	19.00	19.00	19.00	19.00	17.00	17.00	15.50	15.50
802.11ax HE80 (MIMO)	155	5775	18.00	18.00	16.00	16.00	14.00	14.00	12.00	12.00	8.00	8.00	18.00	18.00	18.00	18.00	17.00	17.00	15.50	15.50



Burst Average Power (dBm)																				
5.9GHz Mode (CDD/SDB)	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	169	5845	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	173	5865	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	177	5885	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11n HT20 (MIMO)	169	5845	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	173	5865	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	177	5885	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11n HT40 (MIMO)	167	5835	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	175	5875	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11ac VHT20 (MIMO)	169	5845	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	173	5865	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	177	5885	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11ac VHT40 (MIMO)	167	5835	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	175	5875	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11ac VHT80 (MIMO)	171	5855	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11ac VHT160 (MIMO)	163	5815	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11ax HE20 (MIMO)	169	5845	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	173	5865	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	177	5885	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11ax HE40 (MIMO)	167	5835	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
	175	5875	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50
802.11ax HE80 (MIMO)	171	5855	19.00	19.00	17.00	17.00	14.50	14.50	12.50	12.50	8.50	8.50	19.00	19.00	19.00	19.00	18.00	18.00	16.50	16.50

Standard Power (SP)

Maximum Transmit Burst Average Power (dBm)					
6GHz Mode (CDD/SDB)	Band	Channel	Frequency (MHz)	Index 0	
				Ant 4	Ant 3
802.11a (MIMO)	5	1	5955	18.50	18.50
	5	49	6195	19.00	19.00
	5	93	6415	19.00	19.00
	7	117	6535	19.00	19.00
	7	149	6695	19.00	19.00
	7	181	6855	19.00	19.00
802.11ax-HE20 (MIMO)	5	1	5955	18.00	18.00
	5	49	6195	19.00	19.00
	5	93	6415	19.00	19.00
	7	117	6535	19.00	19.00
	7	149	6695	19.00	19.00
	7	181	6855	19.00	19.00
802.11ax-HE40 (MIMO)	5	3	5965	17.00	17.00
	5	51	6205	19.00	19.00
	5	91	6405	19.00	19.00
	7	123	6565	19.00	19.00
	7	147	6685	19.00	19.00
	7	179	6845	19.00	19.00
802.11ax-HE80 (MIMO)	5	7	5985	16.50	16.50
	5	55	6225	19.00	19.00
	5	87	6385	19.00	19.00
	7	135	6625	19.00	19.00
	7	151	6705	19.00	19.00
	7	167	6785	19.00	19.00

Burst Average Power (dBm)																					
6GHz Mode (CDD/SDB)	Band	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	5	1	5955	18.50	18.50	14.00	14.00	14.00	14.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	5	57	6235	19.00	19.00	14.00	14.00	14.00	14.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	7	173	6815	19.00	19.00	14.00	14.00	14.00	14.00	12.00	12.00	9.50	9.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
802.11ax HE20 (MIMO)	5	1	5955	18.00	18.00	14.00	14.00	14.00	14.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	5	57	6235	19.00	19.00	14.00	14.00	14.00	14.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	7	173	6815	19.00	19.00	14.00	14.00	14.00	14.00	12.00	12.00	9.50	9.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
802.11ax HE40 (MIMO)	5	3	5965	17.00	17.00	14.00	14.00	14.00	14.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	5	59	6245	19.00	19.00	14.00	14.00	14.00	14.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	7	171	6805	19.00	19.00	14.00	14.00	14.00	14.00	12.00	12.00	9.50	9.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
802.11ax HE80 (MIMO)	5	7	5985	16.50	16.50	14.00	14.00	14.00	14.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	5	71	6305	19.00	19.00	14.00	14.00	14.00	14.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	7	167	6785	19.00	19.00	14.00	14.00	14.00	14.00	12.00	12.00	9.50	9.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50

Low Power Indoor (LPI)

6GHz Mode (CDD/SDB)	Band	Channel	Frequency (MHz)	Maximum Transmit Burst Average Power (dBm)			
				SDB		CDD	
				Index 0		Index 0	
				Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	5	1	5955	7.50	7.50	5.50	5.50
	5	49	6195	7.50	7.50	5.50	5.50
	5	93	6415	7.50	7.50	5.50	5.50
	6	97	6435	10.00	10.00	8.50	8.50
	6	105	6475	10.00	10.00	8.50	8.50
	6	113	6515	10.00	10.00	8.50	8.50
	7	117	6535	9.50	9.50	8.50	8.50
	7	149	6695	9.50	9.50	8.50	8.50
	7	181	6855	9.50	9.50	8.50	8.50
	7/8	185	6875	9.50	9.50	8.50	8.50
	8	189	6895	12.00	12.00	9.50	9.50
	8	209	6995	12.00	12.00	9.50	9.50
802.11ax-HE20 (MIMO)	8	229	7095	12.00	12.00	9.50	9.50
	5	1	5955	8.00	8.00	6.00	6.00
	5	49	6195	8.00	8.00	6.00	6.00
	5	93	6415	8.00	8.00	6.00	6.00
	6	97	6435	10.50	10.50	8.50	8.50
	6	105	6475	10.50	10.50	8.50	8.50
	6	113	6515	10.50	10.50	8.50	8.50
	7	117	6535	10.00	10.00	9.00	9.00
	7	149	6695	10.00	10.00	9.00	9.00
	7	181	6855	10.00	10.00	9.00	9.00
	7/8	185	6875	10.00	10.00	9.00	9.00
	8	189	6895	12.50	12.50	10.00	10.00
802.11ax-HE40 (MIMO)	8	209	6995	12.50	12.50	10.00	10.00
	8	229	7095	12.50	12.50	10.00	10.00
	5	3	5965	11.00	11.00	9.00	9.00
	5	51	6205	11.00	11.00	9.00	9.00
	5	91	6405	11.00	11.00	9.00	9.00
	6	99	6445	13.50	13.50	12.00	12.00
	6	107	6485	13.50	13.50	12.00	12.00
	6	115	6525	13.50	13.50	12.00	12.00
	7	123	6565	12.50	12.50	12.00	12.00
	7	147	6685	12.50	12.50	12.00	12.00
	7	179	6845	13.00	13.00	12.00	12.00
	7/8	187	6885	13.00	13.00	12.00	12.00
802.11ax-HE80 (MIMO)	8	195	6925	15.00	15.00	13.00	13.00
	8	211	7005	15.00	15.00	13.00	13.00
	8	227	7085	15.00	15.00	13.00	13.00
	5	7	5985	14.00	14.00	12.00	12.00
	5	55	6225	14.00	14.00	12.00	12.00
	5	87	6385	14.00	14.00	12.00	12.00
	6	103	6465	16.50	16.50	14.50	14.50
	6	119	6545	16.50	16.50	14.50	14.50
	7	135	6625	15.50	15.50	14.50	14.50
	7	151	6705	15.50	15.50	14.50	14.50
	7	167	6785	15.50	15.50	14.50	14.50
	7/8	183	6865	15.50	15.50	14.50	14.50
	8	199	6945	18.00	18.00	15.00	15.00
	8	215	7025	18.00	18.00	15.00	15.00



6GHz Mode (CDD/SDB)	Band	Channel	Frequency (MHz)	Burst Average Power (dBm)																	
				Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	5	1	5955	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	5	57	6235	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	6	113	6515	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
802.11ax HE20 (MIMO)	7	173	6815	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	5	1	5955	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	5	57	6235	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
802.11ax HE40 (MIMO)	6	113	6515	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	7	173	6815	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.50	9.50	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	5	3	5965	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	10.50	10.50	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
802.11ax HE80 (MIMO)	5	59	6245	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	10.50	10.50	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	6	107	6485	13.50	13.50	13.50	13.50	13.50	13.50	13.50	12.50	12.50	10.50	10.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
	7	171	6805	13.00	13.00	13.00	13.00	13.00	13.00	13.00	12.00	12.00	9.50	9.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
802.11ax HE20 (MIMO)	8	227	7085	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.50	12.50	10.50	10.50	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	5	7	5985	14.00	14.00	14.00	14.00	14.00	14.00	14.00	12.50	12.50	10.00	10.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	5	71	6305	14.00	14.00	14.00	14.00	14.00	14.00	14.00	12.50	12.50	10.00	10.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
802.11ax HE80 (MIMO)	6	119	6545	16.50	16.50	14.00	14.00	14.00	14.00	14.00	12.50	12.50	10.00	10.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	7	167	6785	15.50	15.50	14.00	14.00	14.00	14.00	14.00	12.00	12.00	9.50	9.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	8	215	7025	18.00	18.00	15.00	15.00	15.00	15.00	15.00	12.50	12.50	10.00	10.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

Very Low Power (VLP)

6GHz Mode (CDD/SDB)	Band	Channel	Frequency (MHz)	Maximum Transmit Burst Average Power (dBm)			
				SDB		CDD	
				Index 0		Index 0	
				Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	5	1	5955	3.50	3.50	1.00	1.00
	5	49	6195	3.50	3.50	1.00	1.00
	5	93	6415	3.50	3.50	1.00	1.00
	6	97	6435	6.00	6.00	4.00	4.00
	6	105	6475	6.00	6.00	4.00	4.00
	6	113	6515	6.00	6.00	4.00	4.00
	7	117	6535	5.50	5.50	4.00	4.00
	7	149	6695	5.50	5.50	4.00	4.00
	7	181	6855	5.50	5.50	4.00	4.00
	7/8	185	6875	5.50	5.50	4.00	4.00
	8	189	6895	7.50	7.50	5.00	5.00
	8	209	6995	7.50	7.50	5.00	5.00
	8	229	7095	7.50	7.50	5.00	5.00
802.11ax-HE20 (MIMO)	5	1	5955	4.00	4.00	2.00	2.00
	5	49	6195	4.00	4.00	2.00	2.00
	5	93	6415	4.00	4.00	2.00	2.00
	6	97	6435	6.00	6.00	4.50	4.50
	6	105	6475	6.50	6.50	4.50	4.50
	6	113	6515	6.50	6.50	4.50	4.50
	7	117	6535	5.50	5.50	4.50	4.50
	7	149	6695	5.50	5.50	4.50	4.50
	7	181	6855	5.50	5.50	4.50	4.50
	7/8	185	6875	5.50	5.50	4.50	4.50
	8	189	6895	8.50	8.50	5.50	5.50
	8	209	6995	8.50	8.50	5.50	5.50
	8	229	7095	8.50	8.50	5.50	5.50
802.11ax-HE40 (MIMO)	5	3	5965	7.00	7.00	5.00	5.00
	5	51	6205	7.00	7.00	5.00	5.00
	5	91	6405	7.00	7.00	5.00	5.00
	6	99	6445	9.50	9.50	8.00	8.00
	6	107	6485	9.50	9.50	8.00	8.00
	6	115	6525	9.50	9.50	8.00	8.00
	7	123	6565	9.00	9.00	7.50	7.50
	7	147	6685	9.00	9.00	7.50	7.50
	7	179	6845	9.00	9.00	7.50	7.50
	7/8	187	6885	8.00	8.00	7.50	7.50
	8	195	6925	11.50	11.50	8.50	8.50
	8	211	7005	11.50	11.50	8.50	8.50
	8	227	7085	11.50	11.50	8.50	8.50
802.11ax-HE80 (MIMO)	5	7	5985	10.00	10.00	7.50	7.50
	5	55	6225	10.00	10.00	7.50	7.50
	5	87	6385	10.00	10.00	7.50	7.50
	6	103	6465	12.00	12.00	10.50	10.50
	6	119	6545	12.00	12.00	10.50	10.50
	7	135	6625	11.50	11.50	10.50	10.50
	7	151	6705	11.50	11.50	10.50	10.50
	7	167	6785	11.50	11.50	10.50	10.50
	7/8	183	6865	11.00	11.00	10.50	10.50
	8	199	6945	14.00	14.00	11.00	11.00
	8	215	7025	14.00	14.00	11.00	11.00

6GHz Mode (CDD/SDB)	Band	Channel	Frequency (MHz)	Burst Average Power (dBm)																	
				Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	5	1	5955	3.50	3.50													3.50	3.50	3.50	3.50
	5	57	6235	3.50	3.50													3.50	3.50	3.50	3.50
	6	113	6515	6.00	6.00													6.00	6.00	6.00	6.00
	7	173	6815	5.50	5.50													5.50	5.50	5.50	5.50
802.11ax HE20 (MIMO)	5	1	5955	4.00	4.00													4.00	4.00	4.00	4.00
	5	57	6235	4.00	4.00													4.00	4.00	4.00	4.00
	6	113	6515	6.50	6.50													6.50	6.50	6.50	6.50
	7	173	6815	5.50	5.50													5.50	5.50	5.50	5.50
802.11ax HE40 (MIMO)	5	3	5965	7.00	7.00													7.00	7.00	7.00	7.00
	5	59	6245	7.00	7.00													7.00	7.00	7.00	7.00
	6	107	6485	9.50	9.50													9.50	9.50	9.50	9.50
	7	171	6805	9.00	9.00													9.00	9.00	9.00	9.00
802.11ax HE80 (MIMO)	8	227	7085	11.50	11.50													11.50	11.50	11.50	11.50
	5	7	5985	10.00	10.00													10.00	10.00	10.00	10.00
	5	71	6305	10.00	10.00													10.00	10.00	10.00	10.00
	6	119	6545	12.00	12.00													12.00	12.00	12.00	12.00
	7	167	6785	11.50	11.50													11.50	11.50	11.50	11.50
	8	215	7025	14.00	14.00													14.00	14.00	14.00	14.00

<Bluetooth Maximum Power>

General Note:

- The device implements the power management for Bluetooth SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases. Full details about the proprietary power management decision are illustrated in the operational description.

Bluetooth Mode	Channel	Frequency (MHz)	Burst Average Power (dBm)					
			Index 0		Index 1		Index 2	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
BR / EDR 1Mbps (SISO)	0	2402	21.00	21.00	12.50	13.50	20.50	19.00
	39	2441	21.00	21.00	12.50	13.50	20.50	19.00
	78	2480	21.00	21.00	12.50	13.50	20.50	19.00
BR / EDR 2Mbps (SISO)	0	2402	18.00	18.00	12.50	13.50	18.00	18.00
	39	2441	18.00	18.00	12.50	13.50	18.00	18.00
	78	2480	18.00	18.00	12.50	13.50	18.00	18.00
BR / EDR 3Mbps (SISO)	0	2402	18.00	18.00	12.50	13.50	18.00	18.00
	39	2441	18.00	18.00	12.50	13.50	18.00	18.00
	78	2480	18.00	18.00	12.50	13.50	18.00	18.00
LE 1Mbps (SISO)	0	2402	21.00	21.00	12.50	13.50	20.50	19.00
	19	2440	21.00	21.00	12.50	13.50	20.50	19.00
	39	2480	21.00	21.00	12.50	13.50	20.50	19.00
LE 2Mbps (SISO)	1	2404	21.00	21.00	12.50	13.50	20.50	19.00
	19	2440	21.00	21.00	12.50	13.50	20.50	19.00
	38	2478	21.00	21.00	12.50	13.50	20.50	19.00
BLE CS GFSK 1Mbps (SISO)	2	2404	19.00	19.00	12.50	13.50	19.00	19.00
	38	2440	19.00	19.00	12.50	13.50	19.00	19.00
	76	2478	19.00	19.00	12.50	13.50	19.00	19.00
BLE CS GFSK 2Mbps (SISO)	2	2404	19.00	19.00	12.50	13.50	19.00	19.00
	38	2440	19.00	19.00	12.50	13.50	19.00	19.00
	76	2478	19.00	19.00	12.50	13.50	19.00	19.00
BLE CS ASK 1Mbps (SISO)	2	2404	19.00	19.00	12.50	13.50	19.00	19.00
	39	2441	19.00	19.00	12.50	13.50	19.00	19.00
	76	2478	19.00	19.00	12.50	13.50	19.00	19.00
BLE CS ASK 2Mbps (SISO)	2	2404	19.00	19.00	12.50	13.50	19.00	19.00
	38	2440	19.00	19.00	12.50	13.50	19.00	19.00
	76	2478	19.00	19.00	12.50	13.50	19.00	19.00

2.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	A4RGK2MP																																																																												
Equipment Name	Phone																																																																												
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																																												
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																												
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																																												
LTE Voice / Data requirements	Voice and Data																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 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	256 QAM	≥ 1						≤ 5
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3																																																																													
Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)																																																																						
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																																							
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																						
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																						
16 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																																																																						
256 QAM	≥ 1						≤ 5																																																																						
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																												
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																												
Power reduction applied to satisfy SAR compliance	The device has several different power modes for each exposure conditions SAR compliance; power selection is determined by the device’s positioning and usage scenarios. Detail refer to operational description.																																																																												
LTE Carrier Aggregation Combinations	The UL CA include in parent model GLBW0 part 1 SAR Report section 12																																																																												
LTE Carrier Aggregation Additional Information	Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.																																																																												

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 25 MHz		Bandwidth 30 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23230		782	
M	23230		782									
H	23255		784.5									
LTE Band 14												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Channel #		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23305		790.5		23330		793		23330		793	
M	23330		793									
H	23355		795.5									
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23780		709	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23800		711	



LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5		
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5		
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5		
LTE Band 30												
	Bandwidth 5 MHz					Bandwidth 10 MHz						
	Channel #		Freq.(MHz)			Channel #			Freq.(MHz)			
L	27685		2307.5			27710			2310			
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
H	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 48												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
L	55810	3607	55815	3607.5	55820	3608	55830	3609				
M	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				

**2.4 General 5G NR SAR Test and Reporting Considerations**

5G NR Information														
FCC ID	A4RGK2MP													
Equipment Name	Phone													
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz													
Channel Bandwidth	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz 5G NR n12: 5MHz, 10MHz, 15MHz 5G NR n14: 5MHz, 10MHz 5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz, 40MHz 5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n30: 5MHz, 10MHz 5G NR n38: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz 5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz, 40MHz 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n77/n78: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz													
SCS	FDD: SCS15KHz, TDD: SCS30KHz													
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM													
A-MPR (Additional MPR) disabled for SAR Testing?	Yes													
LTE Anchor Bands for n2	LTE B2/4/5/7/12/13/14/30/48/66/71													
LTE Anchor Bands for n5	LTE B2/7/30/48/66													
LTE Anchor Bands for n7	LTE B2/5/12/13/66/71													
LTE Anchor Bands for n12	LTE B2/7/66													
LTE Anchor Bands for n25	LTE B2/12/13/26/48/66													
LTE Anchor Bands for n30	LTE B2/5/12/14/66													
LTE Anchor Bands for n38	LTE B2/4/5/12/66/71													
LTE Anchor Bands for n41	LTE B2/4/5/12/25/26/66/71													
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/25/30/48/66/71													
LTE Anchor Bands for n71	LTE B2/7/66													
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/25/26/30/41/66													
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/25/38/41/66/71													
NR Band 2														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870
M	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895	378000	1890
NR Band 5														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834	166300	831.5	166800	834	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839	168300	841.5	167800	839	167800	839



NR Band 7																						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	505000	2525						
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535						
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545						
NR Band 12																						
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz													
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)							
L	140300		701.5		140800		704		141300		706.5											
M	141500		707.5		141500		707.5		141500		707.5											
H	142700		713.5		142200		711		141700		708.5											
NR Band 14																						
	Bandwidth 5MHz						Bandwidth 10MHz															
	Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)						
L	158100			790.5			158600			793												
M	158600			793																		
H	159100			795.5																		
NR Band 25																						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870						
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5						
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895						
NR Band 26																						
	Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz												
	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)							
L	163300		816.5	163800		819	164300		821.5	164800		824										
M	166300		831.5	166300		831.5	166300		831.5	166300		831.5										
H	169300		846.5	168800		844	168300		841.5	167800		839										
NR Band 30																						
	Bandwidth 5MHz						Bandwidth 10MHz															
	Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)			Ch. #									
L	461500			2307.5			462000			2310												
M	462000			2310																		
H	462500			2312.5																		
NR Band 38																						
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz											
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02										
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595										
H	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98										
NR Band 41																						
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640
NR Band 66																						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730						
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745						
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352500	1762.5	352000	1760						



NR Band 71																								
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz											
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)									
L	133100		665.5		133600		668		13410		670.5		134600		673									
M	136100		680.5		136100		680.5		136100		680.5		136100		680.5									
H	139100		695.5		138600		693		13810		690.5		137600		688									
NR Band 77_Part 270																								
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930
NR Band 78_Part 270																								
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750		
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.50	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		
NR Band 77/78_Part 27Q																								
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495	633332	3499.98
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98		
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

3. TAS feature for RF Exposure compliance

The FCC RF exposure limit is based on time-averaged RF exposure. Both SAR and PD regulatory specifications are defined over certain measurement duration allowing for time-averaging. The Samsung S.LSI proprietary Spatial Time Average SAR (S-TAS) with Non-Terrestrial Networks algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power for meeting system performance. Under the control of TAS algorithm, the device can transmit at high power up to Pmax for certain interval, but the average power will be maintained not exceeding the pre-defined averaged level (Plimit), and thus maintain the time-averaged RF exposure compliance

The following table shows Plimit and maximum tune up output power Pmax, for all exposure and transmit transmit conditions (output power index).

Pmax	Maximum Tx power that can be transmitted physically from RFIC for a given RAT
SAR_FCC_limit	SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure, and 4 W/kg averaged over 10-gram, for extremity exposure
Plimit	The time-averaged RF power that corresponds to SAR_target

3.1 SAR Characterization – Power Table

General Note:

1. The P_{limit} values correspond to SAR_{design target}.
2. GSM don't support time average feature of dynamic power varying, the power will be fixed at the static reduce power level at different exposure conditions for RF exposure compliance. For the GSM P_{limit} power levels in the table correspond to the burst average power levels which don't account for TX duty cycle.
3. UMTS, LTE, FR1 and NTN: P_{limit} power levels in the table correspond to the time-averaged power levels which accounts for TX duty cycle.
4. Maximum target power, P_{max}, is configured in NV settings in EUT to limit maximum transmitting power. This power is converted into peak power in NV settings for TDD schemes.

<P_{limit} for supported technologies and bands (P_{limit} corresponding to SAR design target)>

Wireless technology (No Accounting duty cycle)	Mode	Duty cycle	Antenna	Maximum Power Condition	Head		Hotspot	Body-worn/Extremity		P Max Burst average power (dBm)
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
				Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	
				P limit						
				Burst average power (dBm)						
GSM850	GSM/GPRS 1TX	12.50%	Ant0	32.50	35.60	34.40	34.10	35.00	34.30	32.50
	GPRS 2TX	25.00%		31.50	32.60	31.40	31.10	32.00	31.30	31.50
	GPRS 3TX	37.50%		30.50	30.80	29.60	29.30	30.20	29.50	30.50
	GPRS 4TX	50.00%		29.50	29.60	28.40	28.10	29.00	28.30	29.50
	EDGE 1TX	12.50%		26.50	35.60	34.40	34.10	35.00	34.30	26.50
	EDGE 2TX	25.00%		25.50	32.60	31.40	31.10	32.00	31.30	25.50
	EDGE 3TX	37.50%		24.50	30.80	29.60	29.30	30.20	29.50	24.50
	EDGE 4TX	50.00%		23.50	29.60	28.40	28.10	29.00	28.30	23.50
	GSM850	GSM/GPRS 1TX		12.50%	Ant1	32.20	30.30	29.60	33.10	33.80
GPRS 2TX		25.00%	31.30	27.30		26.60	30.10	30.80	30.10	31.30
GPRS 3TX		37.50%	30.30	25.50		24.80	28.30	29.00	28.30	30.30
GPRS 4TX		50.00%	29.30	24.30		23.60	27.10	27.80	27.10	29.30
EDGE 1TX		12.50%	26.20	30.30		29.60	33.10	33.80	33.10	26.20
EDGE 2TX		25.00%	25.30	27.30		26.60	30.10	30.80	30.10	25.30
EDGE 3TX		37.50%	24.30	25.50		24.80	28.30	29.00	28.30	24.30
EDGE 4TX		50.00%	23.30	24.30		23.60	27.10	27.80	27.10	23.30
GSM1900		GSM/GPRS 1TX	12.50%	Ant2		29.50	34.70	34.00	31.80	32.80
	GPRS 2TX	25.00%	28.00		31.70	31.00	28.80	29.80	29.10	28.00
	GPRS 3TX	37.50%	27.50		29.90	29.20	27.00	28.00	27.30	27.50
	GPRS 4TX	50.00%	26.50		28.70	28.00	25.80	26.80	26.10	26.50
	EDGE 1TX	12.50%	25.50		34.70	34.00	31.80	32.80	32.10	25.50
	EDGE 2TX	25.00%	24.50		31.70	31.00	28.80	29.80	29.10	24.50
	EDGE 3TX	37.50%	23.50		29.90	29.20	27.00	28.00	27.30	23.50
	EDGE 4TX	50.00%	22.50		28.70	28.00	25.80	26.80	26.10	22.50
	GSM1900	GSM/GPRS 1TX	12.50%		Ant0	28.70	43.80	43.10	26.40	28.40
GPRS 2TX		25.00%	27.20	40.80		40.10	23.40	25.40	24.70	27.20
GPRS 3TX		37.50%	26.70	39.00		38.30	21.60	23.60	22.90	26.70
GPRS 4TX		50.00%	25.70	37.80		37.10	20.40	22.40	21.70	25.70
EDGE 1TX		12.50%	24.70	43.80		43.10	26.40	28.40	27.70	24.70
EDGE 2TX		25.00%	23.70	40.80		40.10	23.40	25.40	24.70	23.70
EDGE 3TX		37.50%	22.70	39.00		38.30	21.60	23.60	22.90	22.70
EDGE 4TX		50.00%	21.70	37.80		37.10	20.40	22.40	21.70	21.70



Wireless technology (Accounting duty cycle)	Mode	Duty cycle	Antenna	Maximum Power Condition	Head		Hotspot	Body-worn/Extremity		P Max Time-average power (dBm)
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
				Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	
				P limit						
Time-average power (dBm)										
WCDMA B2	R99/HSPA	100.00%	Ant2	24.00	25.80	25.10	21.60	22.30	21.60	24.00
WCDMA B2	R99/HSPA	100.00%	Ant0	23.80	35.20	34.50	16.30	18.90	18.20	23.80
WCDMA B4	R99/HSPA	100.00%	Ant2	24.00	26.20	25.50	21.00	21.70	21.00	24.00
WCDMA B4	R99/HSPA	100.00%	Ant0	23.80	33.50	32.80	18.00	19.50	18.80	23.80
WCDMA B5	R99/HSPA	100.00%	Ant0	24.30	28.20	27.50	24.70	25.40	24.70	24.30
WCDMA B5	R99/HSPA	100.00%	Ant1	24.10	22.00	21.30	24.10	24.80	24.10	24.10
LTE B7	PC3	100.00%	Ant2	24.10	24.50	23.30	20.00	20.70	20.00	24.10
LTE B7	PC3	100.00%	Ant0	23.90	31.60	30.90	18.70	20.90	20.20	23.90
LTE B12/B17	PC3	100.00%	Ant0	24.30	30.60	29.90	26.30	27.00	26.30	24.30
LTE B12/B17	PC3	100.00%	Ant1	24.10	22.90	22.20	26.50	27.20	26.50	24.10
LTE B13	PC3	100.00%	Ant0	24.30	29.30	28.60	22.90	28.40	27.70	24.30
LTE B13	PC3	100.00%	Ant1	24.10	23.00	22.30	22.80	27.20	26.50	24.10
LTE B14	PC3	100.00%	Ant0	24.30	29.10	28.40	22.80	27.80	27.10	24.30
LTE B14	PC3	100.00%	Ant1	24.10	23.10	22.30	23.00	27.20	26.50	24.10
LTE B25/B2	PC3	100.00%	Ant2	24.00	25.90	25.20	20.10	20.80	20.10	24.00
LTE B25/B2	PC3	100.00%	Ant0	23.90	35.90	35.20	16.50	19.10	18.40	23.90
LTE B25/B2	PC3	100.00%	Ant1	24.00	17.40	16.70	20.30	21.50	20.80	24.00
LTE B25/B2	PC3	100.00%	Ant5	23.80	19.20	18.20	21.70	22.40	21.70	23.80
LTE B26/B5	PC3	100.00%	Ant0	24.30	28.40	27.70	23.80	26.20	25.50	24.30
LTE B26/B5	PC3	100.00%	Ant1	24.10	22.60	21.50	24.20	24.90	24.20	24.10
LTE B30	PC3	100.00%	Ant2	22.90	24.10	23.40	19.60	20.30	19.60	22.90
LTE B30	PC3	100.00%	Ant0	20.50	32.50	31.80	18.60	20.20	19.50	20.50
LTE B41/B38	PC3	63.30%	Ant2	22.10	22.90	21.70	19.00	19.70	19.00	22.10
LTE B41/B38	PC2	43.30%	Ant2	22.40	22.90	21.70	19.00	19.70	19.00	22.40
LTE B41/B38	PC3	63.30%	Ant0	21.90	31.50	30.80	18.60	20.90	20.20	21.90
LTE B41/B38	PC2	43.30%	Ant0	22.20	31.50	30.80	18.60	20.90	20.20	22.20
LTE B48	PC3	63.30%	Ant6	18.00	25.70	25.00	18.80	20.10	19.40	18.00
LTE B48	PC3	63.30%	Ant7	20.10	25.50	24.80	18.10	18.80	18.10	20.10
LTE B66/B4	PC3	100.00%	Ant2	24.00	25.50	24.80	21.30	22.00	21.30	24.00
LTE B66/B4	PC3	100.00%	Ant0	23.90	34.70	34.00	18.20	19.60	18.90	23.90
LTE B66/B4	PC3	100.00%	Ant1	24.00	15.70	14.50	20.50	21.20	20.50	24.00
LTE B66/B4	PC3	100.00%	Ant5	23.80	19.80	18.60	22.50	23.20	22.50	23.80
LTE B71	PC3	100.00%	Ant0	24.30	29.50	28.80	27.30	28.40	27.70	24.30
LTE B71	PC3	100.00%	Ant1	24.10	23.40	22.50	26.70	27.40	26.70	24.10
FR1 n7	PC3	100.00%	Ant2	24.10	23.40	22.20	20.60	21.90	21.20	24.10
FR1 n7	PC3	100.00%	Ant0	23.90	31.80	31.10	18.40	20.50	19.80	23.90
FR1 n12	PC3	100.00%	Ant0	24.30	29.40	28.70	23.80	26.10	25.40	24.30
FR1 n12	PC3	100.00%	Ant1	24.10	22.40	21.50	25.20	25.90	25.20	24.10
FR1 n14	PC3	100.00%	Ant0	24.30	28.90	28.20	23.00	28.20	27.50	24.30
FR1 n14	PC3	100.00%	Ant1	24.10	22.40	21.50	23.10	26.10	25.40	24.10
FR1 n25/n2	PC3	100.00%	Ant2	24.00	27.10	26.40	20.60	21.30	20.60	24.00
FR1 n25/n2	PC3	100.00%	Ant0	23.90	36.70	36.00	17.00	19.10	18.40	23.90
FR1 n25/n2	PC3	100.00%	Ant1	24.00	14.60	13.70	19.50	20.20	19.50	24.00
FR1 n25/n2	PC3	100.00%	Ant5	23.80	18.60	17.40	20.50	21.30	20.60	23.80
FR1 n26/n5	PC3	100.00%	Ant0	24.30	28.40	27.70	25.20	26.00	25.30	24.30
FR1 n26/n5	PC3	100.00%	Ant1	24.10	22.00	21.10	24.20	24.90	24.20	24.10
FR1 n30	PC3	100.00%	Ant2	22.90	24.90	24.20	19.60	20.30	19.60	22.90
FR1 n30	PC3	100.00%	Ant0	20.50	33.70	33.00	18.80	21.10	20.40	20.50
FR1 n41/n38	PC3	100.00%	Ant2	24.10	23.10	21.90	20.90	21.60	20.90	24.10
FR1 n41	PC2	50.00%	Ant2	23.00	23.10	21.90	20.90	21.60	20.90	23.00



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

FR1 n41	PC1.5	25.00%	Ant2	19.50	23.10	21.90	20.90	21.60	20.90	19.50
FR1 n41/n38	PC3	100.00%	Ant0	24.00	31.70	31.00	19.10	21.30	20.60	24.00
FR1 n41	PC2	50.00%	Ant0	22.80	31.70	31.00	19.10	21.30	20.60	22.80
FR1 n41	PC1.5	25.00%	Ant0	18.50	31.70	31.00	19.10	21.30	20.60	18.50
FR1 n41/n38	PC3	100.00%	Ant1	24.10	17.00	15.80	21.30	22.00	21.30	24.10
FR1 n41	PC2	50.00%	Ant1	23.00	17.00	15.80	21.30	22.00	21.30	23.00
FR1 n41	PC1.5	25.00%	Ant1	18.70	17.00	15.80	21.30	22.00	21.30	18.70
FR1 n41/n38	PC3	100.00%	Ant5	23.70	15.80	14.60	21.90	22.60	21.90	23.70
FR1 n41	PC2	50.00%	Ant5	22.60	15.80	14.60	21.90	22.60	21.90	22.60
FR1 n41	PC1.5	25.00%	Ant5	18.30	15.80	14.60	21.90	22.60	21.90	18.30
FR1 n66	PC3	100.00%	Ant2	24.00	26.70	26.00	21.30	22.00	21.30	24.00
FR1 n66	PC3	100.00%	Ant0	23.90	35.00	34.30	18.60	20.10	19.40	23.90
FR1 n66	PC3	100.00%	Ant1	24.00	15.50	14.60	20.90	21.60	20.90	24.00
FR1 n66	PC3	100.00%	Ant5	23.80	19.80	18.60	21.30	22.00	21.30	23.80
FR1 n71	PC3	100.00%	Ant0	24.30	30.10	29.40	26.40	28.40	27.70	24.30
FR1 n71	PC3	100.00%	Ant1	24.10	23.50	22.80	26.20	26.90	26.20	24.10
FR1 n77/n78	PC3	100.00%	Ant6	24.00	24.10	23.40	18.50	19.40	18.70	24.00
FR1 n77/n78	PC2	50.00%	Ant6	23.00	24.10	23.40	18.50	19.40	18.70	23.00
FR1 n77/n78	PC1.5	25.00%	Ant6	19.50	24.10	23.40	18.50	19.40	18.70	19.50
FR1 n77/n78	PC3	100.00%	Ant7	23.50	23.90	22.70	18.10	18.80	18.10	23.50
FR1 n77/n78	PC2	50.00%	Ant7	22.50	23.90	22.70	18.10	18.80	18.10	22.50
FR1 n77/n78	PC1.5	25.00%	Ant7	19.00	23.90	22.70	18.10	18.80	18.10	19.00
FR1 n77/n78	PC3	100.00%	Ant1	24.00	13.70	12.50	16.10	19.00	18.30	24.00
FR1 n77/n78	PC2	50.00%	Ant1	23.00	13.70	12.50	16.10	19.00	18.30	23.00
FR1 n77/n78	PC1.5	25.00%	Ant1	19.50	13.70	12.50	16.10	19.00	18.30	19.50
FR1 n77/n78	PC3	100.00%	Ant5	23.50	16.60	15.90	23.00	23.70	23.00	23.50
FR1 n77/n78	PC2	50.00%	Ant5	22.50	16.60	15.90	23.00	23.70	23.00	22.50
FR1 n77/n78	PC1.5	25.00%	Ant5	19.00	16.60	15.90	23.00	23.70	23.00	19.00
NTN B23	PC3	83.00%	Ant1	21.70				20.50		21.70
NTN B255	PC3	83.00%	Ant4	22.70				20.00		22.70



4. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

5. RF Exposure Limits

5.1 Uncontrolled Environment

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

5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

5.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

6. Specific Absorption Rate (SAR)

6.1 Introduction

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

6.2 SAR Definition

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

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

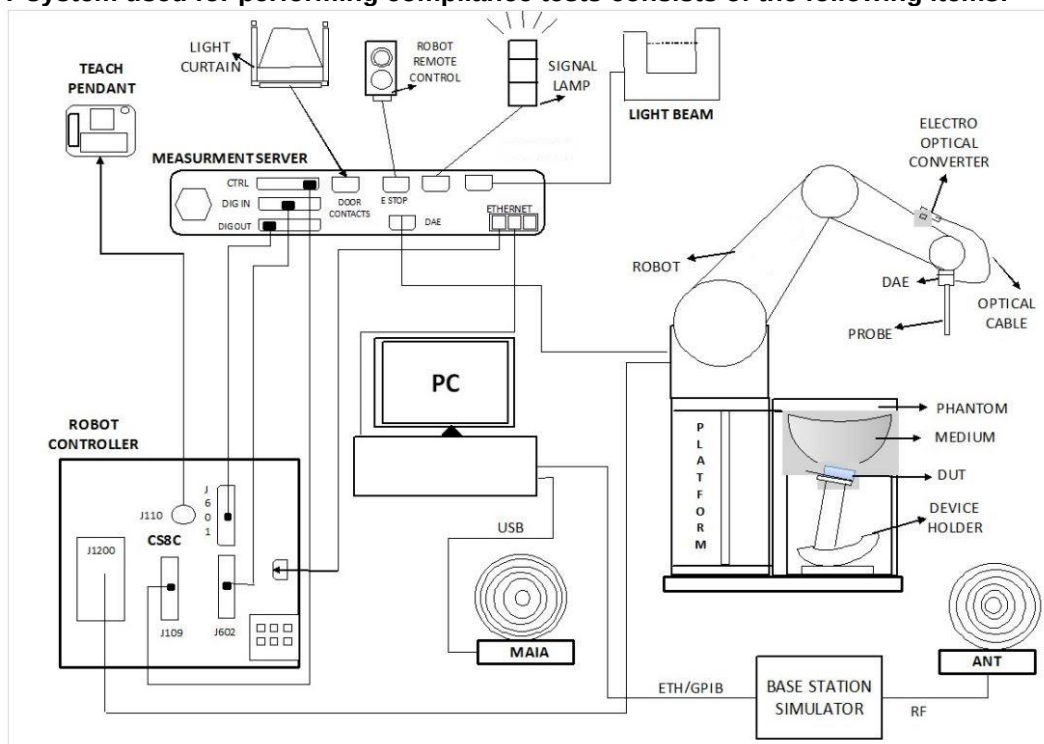
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

7. System Description and Setup

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



- The DASY system in SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

7.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Laboratory	EMC & Wireless Communications Laboratory		Wensan Laboratory				
Test Site Location	TW1190 No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		TW3786 No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan				
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY	SAR18-HY	SAR21-HY
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY	SAR19-HY	SAR22-HY
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY	SAR20-HY	

7.2 E-Field Probe

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

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 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 – >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	

7.3 Data Acquisition Electronics (DAE)

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

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

7.4 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

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

7.5 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

8. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

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

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

8.1 Spatial Peak SAR Evaluation

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

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

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

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

8.2 Power Reference Measurement

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

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

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

8.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

8.5 Volume Scan Procedures

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

8.6 Power Drift Monitoring

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



9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1107	Jun. 22, 2022	Jun. 19, 2025
SPEAG	835MHz System Validation Kit	D835V2	499	Aug. 22, 2024	Aug. 21, 2025
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d167	Nov. 24, 2022	Nov. 21, 2025
SPEAG	1640MHz System Validation Kit ⁽²⁾	D1640V2	346	Aug. 19, 2022	Aug. 16, 2025
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1120	Mar. 25, 2022	Mar. 22, 2025
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Jun. 22, 2022	Jun. 19, 2025
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d093	Mar. 25, 2022	Mar. 22, 2025
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d185	Jun. 17, 2022	Jun. 14, 2025
SPEAG	2000MHz System Validation Kit	D2000V2	1010	Aug. 16, 2024	Aug. 15, 2025
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 18, 2022	Jan. 15, 2025
SPEAG	2300MHz System Validation Kit	D2300V2	1088	Jul. 10, 2024	Jul. 09, 2025
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	929	Nov. 21, 2022	Nov. 18, 2025
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	806	Mar. 24, 2022	Mar. 21, 2025
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Aug. 15, 2024	Aug. 14, 2025
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1078	Jun. 23, 2022	Jun. 20, 2025
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1089	Mar. 24, 2022	Mar. 21, 2025
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 17, 2022	Jan. 14, 2025
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1036	Mar. 23, 2022	Mar. 20, 2025
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Jun. 20, 2022	Jun. 17, 2025
SPEAG	3700MHz System Validation Kit	D3700V2	1022	Jul. 10, 2024	Jul. 09, 2025
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1092	May. 15, 2023	May. 13, 2025
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Oct. 15, 2024	Oct. 14, 2025
SPEAG	5GHz System Validation Kit	D5GHzV2	1128	Sep. 17, 2024	Sep. 16, 2025
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1003	Mar. 15, 2024	Mar. 14, 2025
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1083	Oct. 17, 2024	Oct. 16, 2025
SPEAG	13MHz System Validation Kit ⁽²⁾	CLA13	1011	Jul. 10, 2023	Jul. 08, 2025
SPEAG	5G Verification Source	10GHz	1052	Oct. 16, 2024	Oct. 15, 2025
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9461	Oct. 16, 2024	Oct. 15, 2025
SPEAG	Data Acquisition Electronics	DAE4	656	Jan. 16, 2025	Jan. 15, 2026
SPEAG	Data Acquisition Electronics	DAE4	661	May. 16, 2024	May. 15, 2025
SPEAG	Data Acquisition Electronics	DAE4	703	Apr. 22, 2024	Apr. 21, 2025
SPEAG	Data Acquisition Electronics	DAE4	1399	Mar. 13, 2024	Mar. 12, 2025
SPEAG	Data Acquisition Electronics	DAE4	1424	Dec. 19, 2024	Dec. 18, 2025
SPEAG	Data Acquisition Electronics	DAE4	1647	Oct. 15, 2024	Oct. 14, 2025
SPEAG	Data Acquisition Electronics	DAE4	1694	Nov. 19, 2024	Nov. 18, 2025
SPEAG	Data Acquisition Electronics	DAE4	1697	Nov. 14, 2024	Nov. 13, 2025
SPEAG	Data Acquisition Electronics	DAE4	1707	Dec. 04, 2024	Dec. 03, 2025
SPEAG	Data Acquisition Electronics	DAE4	1794	Feb. 15, 2024	Feb. 14, 2025
SPEAG	Data Acquisition Electronics	DAE4ip	1800	Jun. 18, 2024	Jun. 17, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Nov. 19, 2024	Nov. 18, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7439	Aug. 21, 2024	Aug. 20, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7590	Mar. 19, 2024	Mar. 18, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Dec. 13, 2024	Dec. 12, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7694	Nov. 18, 2024	Nov. 17, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7695	Dec. 02, 2024	Dec. 01, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7700	Jan. 22, 2025	Jan. 21, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7785	Nov. 28, 2024	Nov. 27, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7793	Mar. 01, 2024	Feb. 28, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7814	Jun. 20, 2024	Jun. 19, 2025
Testo	Hygro meter	608-H1	45196600	Oct. 28, 2024	Oct. 27, 2025
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 12, 2024	Nov. 11, 2025
Keysight	5G Wireless Test Platform	E7515B	MY58300712	Apr. 22, 2024	Apr. 21, 2025



R&S	BT Base Station	CBT	101136	Oct. 20, 2024	Oct. 19, 2025
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2024	Sep. 23, 2025
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 20, 2024	Oct. 19, 2025
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 17, 2024	Sep. 16, 2025
SPEAG	Dielectric Probe Kit	DAK-12	1156	Jul. 15, 2024	Jul. 14, 2025
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 07, 2024	Aug. 06, 2025
Anritsu	Power Meter	ML2495A	1419002	Aug. 13, 2024	Aug. 12, 2025
Anritsu	Power Sensor	MA2411B	1911176	Aug. 13, 2024	Aug. 12, 2025
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 09, 2024	Jul. 08, 2025
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 23, 2024	Oct. 22, 2025
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

10. System Verification

10.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	22.7	0.892	43.000	0.89	41.90	0.22	2.63	± 5	2025/1/22
750	22.6	0.883	41.800	0.89	41.90	-0.79	-0.24	± 5	2025/1/23
750	22.4	0.908	42.300	0.89	41.90	2.02	0.95	± 5	2025/1/24
750	22.5	0.898	42.200	0.89	41.90	0.90	0.72	± 5	2025/1/25
750	22.5	0.893	41.400	0.89	41.90	0.34	-1.19	± 5	2025/1/28
750	22.5	0.906	42.300	0.89	41.90	1.80	0.95	± 5	2025/1/30
750	22.5	0.886	41.800	0.89	41.90	-0.45	-0.24	± 5	2025/1/31
750	22.7	0.904	42.200	0.89	41.90	1.57	0.72	± 5	2025/2/1
750	22.6	0.888	41.800	0.89	41.90	-0.22	-0.24	± 5	2025/2/6
750	22.6	0.889	42.000	0.89	41.90	-0.11	0.24	± 5	2025/2/7
750	22.6	0.893	42.100	0.89	41.90	0.34	0.48	± 5	2025/2/12
750	22.6	0.892	43.100	0.89	41.90	0.22	2.86	± 5	2025/2/19
750	22.4	0.882	43.000	0.89	41.90	-0.90	2.63	± 5	2025/2/24
750	22.8	0.891	42.4	0.89	41.90	0.11	1.19	± 5	2025/3/9
835	22.5	0.916	41.500	0.90	41.50	1.78	0.00	± 5	2025/1/23
835	22.4	0.944	42.400	0.90	41.50	4.89	2.17	± 5	2025/1/24
835	22.5	0.932	41.900	0.90	41.50	3.56	0.96	± 5	2025/1/25
835	22.5	0.942	42.000	0.90	41.50	4.67	1.20	± 5	2025/1/30
835	22.5	0.920	41.500	0.90	41.50	2.22	0.00	± 5	2025/1/31
835	22.7	0.940	42.300	0.90	41.50	4.44	1.93	± 5	2025/2/1
835	22.3	0.928	41.900	0.90	41.50	3.11	0.96	± 5	2025/2/3
835	22.6	0.922	41.500	0.90	41.50	2.44	0.00	± 5	2025/2/6
835	22.6	0.928	41.800	0.90	41.50	3.11	0.72	± 5	2025/2/12
835	22.6	0.926	42.700	0.90	41.50	2.89	2.89	± 5	2025/2/19
835	22.1	0.928	42.900	0.90	41.50	3.11	3.37	± 5	2025/2/21
835	22.4	0.911	42.600	0.90	41.50	1.22	2.65	± 5	2025/2/24
835	22.8	0.926	42.1	0.90	41.50	2.89	1.45	± 5	2025/3/9
1640	22.3	1.270	39.900	1.31	40.23	-3.05	-0.82	± 5	2025/2/19
1750	22.5	1.370	40.700	1.37	40.10	0.00	1.50	± 5	2025/2/3
1750	22.3	1.380	40.200	1.37	40.10	0.73	0.25	± 5	2025/2/6
1750	22	1.370	40.600	1.37	40.10	0.00	1.25	± 5	2025/2/10
1750	22.1	1.380	40.800	1.37	40.10	0.73	1.75	± 5	2025/2/11
1750	22.8	1.350	40.500	1.37	40.10	-1.46	1.00	± 5	2025/2/13
1750	22.6	1.370	40.500	1.37	40.10	0.00	1.00	± 5	2025/2/20
1750	22.2	1.360	40.100	1.37	40.10	-0.73	0.00	± 5	2025/2/22
1750	22.5	1.36	41.1	1.37	40.10	-0.73	2.49	± 5	2025/2/25
1750	22.6	1.35	40.3	1.37	40.10	-1.46	0.50	± 5	2025/2/25
1750	22.6	1.36	40.8	1.37	40.10	-0.73	1.75	± 5	2025/2/26
1750	22.6	1.34	39.3	1.37	40.10	-2.19	-2.00	± 5	2025/2/26
1750	22.8	1.35	40.8	1.37	40.10	-1.46	1.75	± 5	2025/3/8
1900	22.4	1.430	39.000	1.40	40.00	2.14	-2.50	± 5	2025/2/2
1900	22.5	1.390	40.500	1.40	40.00	-0.71	1.25	± 5	2025/2/3



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

1900	22.4	1.390	40.700	1.40	40.00	-0.71	1.75	±5	2025/2/4
1900	22.1	1.400	40.600	1.40	40.00	0.00	1.50	±5	2025/2/11
1900	22.6	1.390	40.200	1.40	40.00	-0.71	0.50	±5	2025/2/20
1900	22.2	1.420	40.100	1.40	40.00	1.43	0.25	±5	2025/2/22
1900	22.5	1.44	39.6	1.40	40.00	2.86	-1.00	±5	2025/2/25
1900	22.6	1.42	38.7	1.40	40.00	1.43	-3.25	±5	2025/2/25
1900	22.6	1.43	39.9	1.40	40.00	2.14	-0.25	±5	2025/2/26
1900	22.5	1.43	39.1	1.40	40.00	2.14	-2.25	±5	2025/2/27
1900	22.6	1.39	40.6	1.40	40.00	-0.71	1.50	±5	2025/3/4
1900	22.8	1.43	39.3	1.40	40.00	2.14	-1.75	±5	2025/3/8
2000	22.3	1.440	39.100	1.40	40.00	2.86	-2.25	±5	2025/2/19
2300	22.3	1.610	39.100	1.67	39.50	-3.59	-1.01	±5	2025/2/6
2300	22.6	1.700	39.000	1.67	39.50	1.80	-1.27	±5	2025/2/9
2300	22.5	1.640	40.100	1.67	39.50	-1.80	1.52	±5	2025/2/18
2300	22.3	1.680	40.400	1.67	39.50	0.60	2.28	±5	2025/2/23
2300	22.6	1.62	39.1	1.67	39.50	-2.99	-1.01	±5	2025/3/2
2600	22.6	1.940	38.500	1.96	39.00	-1.02	-1.28	±5	2025/2/7
2600	22.6	1.920	38.400	1.96	39.00	-2.04	-1.54	±5	2025/2/9
2600	22.5	1.930	38.600	1.96	39.00	-1.53	-1.03	±5	2025/2/15
2600	22.5	1.980	38.900	1.96	39.00	1.02	-0.26	±5	2025/2/18
2600	22.7	1.94	39.4	1.96	39.00	-1.02	1.03	±5	2025/2/21
2600	22.7	1.98	38.6	1.96	39.00	1.02	-1.03	±5	2025/2/22
2600	22.3	2.000	39.200	1.96	39.00	2.04	0.51	±5	2025/2/23
2600	22.7	2	38.7	1.96	39.00	2.04	-0.77	±5	2025/2/24
2600	22.6	1.96	38	1.96	39.00	0.00	-2.56	±5	2025/3/2
2600	22.5	1.99	38.9	1.96	39.00	1.53	-0.26	±5	2025/3/5
2600	22.8	1.97	38.7	1.96	39.00	0.51	-0.77	±5	2025/3/7
3500	22.5	2.980	37.700	2.91	37.90	2.41	-0.53	±5	2025/1/25
3500	22.6	2.930	37.500	2.91	37.90	0.69	-1.06	±5	2025/1/26
3500	22.5	2.940	37.900	2.91	37.90	1.03	0.00	±5	2025/2/5
3500	22.2	3.010	37.600	2.91	37.90	3.44	-0.79	±5	2025/2/14
3500	22.6	2.970	37.700	2.91	37.90	2.06	-0.53	±5	2025/2/16
3500	22.6	2.850	37.400	2.91	37.90	-2.06	-1.32	±5	2025/2/17
3500	22.6	2.96	37.7	2.91	37.90	1.72	-0.53	±5	2025/2/24
3500	22.6	2.97	37.8	2.91	37.90	2.06	-0.26	±5	2025/3/3
3500	22.6	2.96	38.3	2.91	37.90	1.72	1.06	±5	2025/3/13
3500	22.7	2.92	38	2.91	37.90	0.34	0.26	±5	2025/3/17
3700	22.5	3.160	37.400	3.12	37.70	1.28	-0.80	±5	2025/1/25
3700	22.6	3.120	37.200	3.12	37.70	0.00	-1.33	±5	2025/1/26
3700	22.5	3.110	37.700	3.12	37.70	-0.32	0.00	±5	2025/2/5
3700	22.6	3.010	37.700	3.12	37.70	-3.53	0.00	±5	2025/2/8
3700	22.2	3.200	37.200	3.12	37.70	2.56	-1.33	±5	2025/2/14
3700	22.6	3.180	37.500	3.12	37.70	1.92	-0.53	±5	2025/2/16
3700	22.6	3.030	37.100	3.12	37.70	-2.88	-1.59	±5	2025/2/17
3700	22.6	3.15	37.4	3.12	37.70	0.96	-0.80	±5	2025/2/24
3700	22.6	3.16	37.5	3.12	37.70	1.28	-0.53	±5	2025/3/3
3700	22.6	3.17	38.1	3.12	37.70	1.60	1.06	±5	2025/3/13
3700	22.7	3.1	37.7	3.12	37.70	-0.64	0.00	±5	2025/3/17
3900	22.5	3.370	37.100	3.33	37.51	1.20	-1.09	±5	2025/1/25
3900	22.6	3.320	36.900	3.33	37.51	-0.30	-1.63	±5	2025/1/26
3900	22.2	3.380	37.100	3.33	37.51	1.50	-1.09	±5	2025/2/14
3900	22.6	3.390	37.300	3.33	37.51	1.80	-0.56	±5	2025/2/16
3900	22.6	3.220	36.800	3.33	37.51	-3.30	-1.89	±5	2025/2/17
3900	22.6	3.35	37.1	3.33	37.51	0.60	-1.09	±5	2025/2/24
3900	22.6	3.36	37.2	3.33	37.51	0.90	-0.83	±5	2025/3/3
13	22.5	0.757	53.459	0.75	55.00	0.93	-2.80	±5	2025/2/26



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

2450	22.6	1.810	39.100	1.80	39.20	0.56	-0.26	±5	2025/1/31
2450	22.7	1.820	38.300	1.80	39.20	1.11	-2.30	±5	2025/2/3
2450	22.6	1.860	38.600	1.80	39.20	3.33	-1.53	±5	2025/2/4
2450	22.6	1.780	38.700	1.80	39.20	-1.11	-1.28	±5	2025/2/4
2450	22.6	1.830	38.400	1.80	39.20	1.67	-2.04	±5	2025/2/5
2450	22.6	1.790	39.200	1.80	39.20	-0.56	0.00	±5	2025/2/6
2450	22.6	1.760	39.000	1.80	39.20	-2.22	-0.51	±5	2025/2/9
2450	22.6	1.790	39.300	1.80	39.20	-0.56	0.26	±5	2025/2/15
2450	22.8	1.800	39.300	1.80	39.20	0.00	0.26	±5	2025/3/7
2450	22.8	1.790	39.500	1.80	39.20	-0.56	0.77	±5	2025/3/12
5250	22.6	4.690	37.100	4.71	35.95	-0.42	3.20	±5	2025/2/1
5250	22.6	4.780	36.900	4.71	35.95	1.49	2.64	±5	2025/2/6
5250	22.6	4.850	37.100	4.71	35.95	2.97	3.20	±5	2025/2/7
5250	22.6	4.570	35.800	4.71	35.95	-2.97	-0.42	±5	2025/2/9
5250	22.3	4.820	36.000	4.71	35.95	2.34	0.14	±5	2025/2/10
5250	22.6	4.590	35.500	4.71	35.95	-2.55	-1.25	±5	2025/2/11
5250	22.6	4.650	35.800	4.71	35.95	-1.27	-0.42	±5	2025/2/13
5250	22.5	4.600	36.400	4.71	35.95	-2.34	1.25	±5	2025/2/26
5250	22.8	4.730	36.800	4.71	35.95	0.42	2.36	±5	2025/3/3
5250	22.7	4.670	36.500	4.71	35.95	-0.85	1.53	±5	2025/3/13
5600	22.6	5.080	36.300	5.07	35.50	0.20	2.25	±5	2025/2/1
5600	22.6	5.110	35.000	5.07	35.50	0.79	-1.41	±5	2025/2/4
5600	22.6	5.160	36.300	5.07	35.50	1.78	2.25	±5	2025/2/6
5600	22.6	5.240	36.600	5.07	35.50	3.35	3.10	±5	2025/2/7
5600	22.6	4.940	35.300	5.07	35.50	-2.56	-0.56	±5	2025/2/9
5600	22.3	5.160	35.600	5.07	35.50	1.78	0.28	±5	2025/2/10
5600	22.6	4.980	34.900	5.07	35.50	-1.78	-1.69	±5	2025/2/11
5600	22.6	5.050	35.200	5.07	35.50	-0.39	-0.85	±5	2025/2/13
5600	22.5	4.950	35.900	5.07	35.50	-2.37	1.13	±5	2025/2/26
5600	22.8	5.080	36.300	5.07	35.50	0.20	2.25	±5	2025/3/3
5600	22.7	5.030	35.900	5.07	35.50	-0.79	1.13	±5	2025/3/13
5800	22.6	5.260	36.100	5.27	35.30	-0.19	2.27	±5	2025/2/1
5800	22.6	5.350	34.600	5.27	35.30	1.52	-1.98	±5	2025/2/4
5800	22.6	5.440	35.900	5.27	35.30	3.23	1.70	±5	2025/2/5
5800	22.6	5.450	36.300	5.27	35.30	3.42	2.83	±5	2025/2/7
5800	22.6	5.150	35.100	5.27	35.30	-2.28	-0.57	±5	2025/2/9
5800	22.3	5.370	35.300	5.27	35.30	1.90	0.00	±5	2025/2/10
5800	22.6	5.220	34.500	5.27	35.30	-0.95	-2.27	±5	2025/2/11
5800	22.6	5.300	34.800	5.27	35.30	0.57	-1.42	±5	2025/2/13
5800	22.5	5.150	35.600	5.27	35.30	-2.28	0.85	±5	2025/2/26
5800	22.8	5.290	36.000	5.27	35.30	0.38	1.98	±5	2025/3/3
5800	22.7	5.240	35.700	5.27	35.30	-0.57	1.13	±5	2025/3/13
6500	22.6	6.150	34.500	6.07	34.50	1.32	0.00	±5	2025/2/17
6500	22.6	6.200	34.700	6.07	34.50	2.14	0.58	±5	2025/2/18
6500	22.6	6.260	34.800	6.07	34.50	3.13	0.87	±5	2025/2/19
6500	22.4	6.310	35.000	6.07	34.50	3.95	1.45	±5	2025/2/20
6500	22.5	6.150	35.100	6.07	34.50	1.32	1.74	±5	2025/3/5
6500	22.6	6.020	34.500	6.07	34.50	-0.82	0.00	±5	2025/3/14
6500	22.6	6.080	34.700	6.07	34.50	0.16	0.58	±5	2025/3/18
6500	22.6	6.030	34.600	6.07	34.50	-0.66	0.29	±5	2025/3/19



10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR-19	2025/1/22	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	1.960	8.540	7.84	-8.20	1.330	5.570	5.32	-4.49
SAR-19	2025/1/23	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	2.120	8.540	8.48	-0.70	1.440	5.570	5.76	3.41
SAR-19	2025/1/24	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	2.070	8.540	8.28	-3.04	1.400	5.570	5.6	0.54
SAR-19	2025/1/25	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	1.950	8.540	7.8	-8.67	1.320	5.570	5.28	-5.21
SAR-21	2025/1/28	750	250	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn1697	2.190	8.540	8.76	2.58	1.480	5.570	5.92	6.28
SAR-21	2025/1/30	750	250	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn1697	2.090	8.540	8.36	-2.11	1.410	5.570	5.64	1.26
SAR-21	2025/1/31	750	250	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn1697	1.960	8.540	7.84	-8.20	1.320	5.570	5.28	-5.21
SAR-21	2025/2/1	750	250	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn1697	2.070	8.540	8.28	-3.04	1.390	5.570	5.56	-0.18
SAR-19	2025/2/6	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	1.970	8.540	7.88	-7.73	1.340	5.570	5.36	-3.77
SAR-19	2025/2/7	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	2.130	8.540	8.52	-0.23	1.440	5.570	5.76	3.41
SAR-19	2025/2/12	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	2.050	8.540	8.2	-3.98	1.390	5.570	5.56	-0.18
SAR-19	2025/2/19	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	2.100	8.540	8.4	-1.64	1.420	5.570	5.68	1.97
SAR-19	2025/2/24	750	250	D750V3-1107	EX3DV4 - SN7695	DAE4 Sn1707	1.940	8.540	7.76	-9.13	1.310	5.570	5.24	-5.92
SAR-16	2025/3/9	750	250	D750V3-1107	EX3DV4 - SN7700	DAE4 Sn656	2.320	8.540	9.28	8.67	1.460	5.570	5.84	4.85
SAR-19	2025/1/23	835	250	D835V2-4d167	EX3DV4 - SN7695	DAE4 Sn1707	2.460	9.800	9.84	0.41	1.640	6.380	6.56	2.82
SAR-19	2025/1/24	835	250	D835V2-4d167	EX3DV4 - SN7695	DAE4 Sn1707	2.460	9.800	9.84	0.41	1.650	6.380	6.6	3.45
SAR-19	2025/1/25	835	250	D835V2-4d167	EX3DV4 - SN7695	DAE4 Sn1707	2.330	9.800	9.32	-4.90	1.560	6.380	6.24	-2.19
SAR-21	2025/1/30	835	250	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn1697	2.620	9.800	10.48	6.94	1.740	6.380	6.96	9.09
SAR-21	2025/1/31	835	250	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn1697	2.450	9.800	9.8	0.00	1.630	6.380	6.52	2.19
SAR-21	2025/2/1	835	250	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn1697	2.570	9.800	10.28	4.90	1.700	6.380	6.8	6.58
SAR-21	2025/2/3	835	250	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn1697	2.500	9.800	10	2.04	1.660	6.380	6.64	4.08
SAR-19	2025/2/6	835	250	D835V2-499	EX3DV4 - SN7695	DAE4 Sn1707	2.410	9.680	9.64	-0.41	1.600	6.280	6.4	1.91
SAR-19	2025/2/12	835	250	D835V2-4d167	EX3DV4 - SN7695	DAE4 Sn1707	2.470	9.800	9.88	0.82	1.650	6.380	6.6	3.45
SAR-19	2025/2/19	835	250	D835V2-4d167	EX3DV4 - SN7695	DAE4 Sn1707	2.460	9.800	9.84	0.41	1.650	6.380	6.6	3.45
SAR-19	2025/2/21	835	250	D835V2-4d167	EX3DV4 - SN7695	DAE4 Sn1707	2.480	9.800	9.92	1.22	1.660	6.380	6.64	4.08
SAR-19	2025/2/24	835	250	D835V2-4d167	EX3DV4 - SN7695	DAE4 Sn1707	2.460	9.800	9.84	0.41	1.640	6.380	6.56	2.82
SAR-16	2025/3/9	835	250	D835V2-4d167	EX3DV4 - SN7700	DAE4 Sn656	2.520	9.800	10.08	2.86	1.680	6.380	6.72	5.33
SAR-20	2025/2/19	1640	50	D1640V2-346	EX3DV4 - SN7785	DAE4 Sn1694	1.640	34.600	32.8	-5.20	0.910	18.600	18.2	-2.15
SAR-20	2025/2/3	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.740	36.400	34.8	-4.40	0.954	19.100	19.08	-0.10
SAR-18	2025/2/6	1750	50	D1750V2-1112	EX3DV4 - SN7625	DAE4ip Sn1800	1.860	36.900	37.2	0.81	0.999	19.400	19.98	2.99
SAR-19	2025/2/10	1750	50	D1750V2-1112	EX3DV4 - SN7695	DAE4 Sn1707	1.920	36.900	38.4	4.07	1.030	19.400	20.6	6.19
SAR-19	2025/2/11	1750	50	D1750V2-1120	EX3DV4 - SN7695	DAE4 Sn1707	1.680	36.400	33.6	-7.69	0.904	19.100	18.08	-5.34
SAR-19	2025/2/13	1750	50	D1750V2-1120	EX3DV4 - SN7695	DAE4 Sn1707	1.760	36.400	35.2	-3.30	0.945	19.100	18.9	-1.05
SAR-19	2025/2/20	1750	50	D1750V2-1120	EX3DV4 - SN7695	DAE4 Sn1707	1.700	36.400	34	-6.59	0.915	19.100	18.3	-4.19
SAR-19	2025/2/22	1750	50	D1750V2-1120	EX3DV4 - SN7695	DAE4 Sn1707	1.690	36.400	33.8	-7.14	0.911	19.100	18.22	-4.61
SAR-19	2025/2/25	1750	50	D1750V2-1120	EX3DV4 - SN7695	DAE4 Sn1707	1.790	36.400	35.8	-1.65	0.957	19.100	19.14	0.21
SAR-17	2025/2/25	1750	50	D1750V2-1120	EX3DV4 - SN7590	DAE4 Sn1399	1.770	36.400	35.4	-2.75	0.961	19.100	19.22	0.63
SAR-19	2025/2/26	1750	50	D1750V2-1120	EX3DV4 - SN7695	DAE4 Sn1707	1.690	36.400	33.8	-7.14	0.912	19.100	18.24	-4.50
SAR-19	2025/2/26	1750	50	D1750V2-1120	EX3DV4 - SN7695	DAE4 Sn1707	1.650	36.400	33	-9.34	0.892	19.100	17.84	-6.60
SAR-16	2025/3/8	1750	50	D1750V2-1112	EX3DV4 - SN7700	DAE4 Sn656	1.770	36.900	35.4	-4.07	0.965	19.400	19.3	-0.52
SAR-21	2025/2/2	1900	50	D1900V2-5d185	EX3DV4 - SN7694	DAE4 Sn1697	1.850	39.000	37	-5.13	0.971	20.400	19.42	-4.80
SAR-20	2025/2/3	1900	50	D1900V2-5d185	EX3DV4 - SN7785	DAE4 Sn1694	1.900	39.000	38	-2.56	1.000	20.400	20	-1.96
SAR-19	2025/2/4	1900	50	D1900V2-5d185	EX3DV4 - SN7695	DAE4 Sn1707	1.880	39.000	37.6	-3.59	0.979	20.400	19.58	-4.02
SAR-19	2025/2/11	1900	50	D1900V2-5d093	EX3DV4 - SN7695	DAE4 Sn1707	1.840	39.900	36.8	-7.77	0.964	20.700	19.28	-6.86
SAR-19	2025/2/20	1900	50	D1900V2-5d093	EX3DV4 - SN7695	DAE4 Sn1707	1.820	39.900	36.4	-8.77	0.957	20.700	19.14	-7.54
SAR-19	2025/2/22	1900	50	D1900V2-5d093	EX3DV4 - SN7695	DAE4 Sn1707	1.890	39.900	37.8	-5.26	0.992	20.700	19.84	-4.15
SAR-19	2025/2/25	1900	50	D1900V2-5d093	EX3DV4 - SN7695	DAE4 Sn1707	1.920	39.900	38.4	-3.76	0.999	20.700	19.98	-3.48
SAR-17	2025/2/25	1900	50	D1900V2-5d093	EX3DV4 - SN7590	DAE4 Sn1399	1.920	39.900	38.4	-3.76	1.010	20.700	20.2	-2.42
SAR-19	2025/2/26	1900	50	D1900V2-5d093	EX3DV4 - SN7695	DAE4 Sn1707	1.910	39.900	38.2	-4.26	1.000	20.700	20	-3.38



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

SAR-19	2025/2/27	1900	50	D1900V2-5d093	EX3DV4 - SN7695	DAE4 Sn1707	1.900	39.900	38	-4.76	0.998	20.700	19.96	-3.57
SAR-19	2025/3/4	1900	50	D1900V2-5d093	EX3DV4 - SN7695	DAE4 Sn1707	1.830	39.900	36.6	-8.27	0.958	20.700	19.16	-7.44
SAR-16	2025/3/8	1900	50	D1900V2-5d185	EX3DV4 - SN7700	DAE4 Sn656	2.020	39.000	40.4	3.59	1.070	20.400	21.4	4.90
SAR-20	2025/2/19	2000	50	D2000V2-1010	EX3DV4 - SN7785	DAE4 Sn1694	2.280	41.900	45.6	8.83	1.160	21.700	23.2	6.91
SAR-18	2025/2/6	2300	50	D2300V2-1006	EX3DV4 - SN7625	DAE4ip Sn1800	2.280	48.200	45.6	-5.39	1.090	23.200	21.8	-6.03
SAR-19	2025/2/9	2300	50	D2300V2-1088	EX3DV4 - SN7695	DAE4 Sn1707	2.640	49.700	52.8	6.24	1.160	24.100	23.2	-3.73
SAR-19	2025/2/18	2300	50	D2300V2-1088	EX3DV4 - SN7695	DAE4 Sn1707	2.270	49.700	45.4	-8.65	1.090	24.100	21.8	-9.54
SAR-19	2025/2/23	2300	50	D2300V2-1088	EX3DV4 - SN7695	DAE4 Sn1707	2.280	49.700	45.6	-8.25	1.100	24.100	22	-8.71
SAR-19	2025/3/2	2300	50	D2300V2-1006	EX3DV4 - SN7695	DAE4 Sn1707	2.200	48.200	44	-8.71	1.060	23.200	21.2	-8.62
SAR-19	2025/2/7	2600	50	D2600V2-1089	EX3DV4 - SN7695	DAE4 Sn1707	2.580	55.400	51.6	-6.86	1.170	24.600	23.4	-4.88
SAR-19	2025/2/9	2600	50	D2600V2-1078	EX3DV4 - SN7695	DAE4 Sn1707	2.500	55.400	50	-9.75	1.130	24.900	22.6	-9.24
SAR-19	2025/2/15	2600	50	D2600V2-1008	EX3DV4 - SN7695	DAE4 Sn1707	2.640	58.000	52.8	-8.97	1.190	25.800	23.8	-7.75
SAR-19	2025/2/18	2600	50	D2600V2-1008	EX3DV4 - SN7695	DAE4 Sn1707	2.660	58.000	53.2	-8.28	1.200	25.800	24	-6.98
SAR-17	2025/2/21	2600	50	D2600V2-1089	EX3DV4 - SN7590	DAE4 Sn1399	2.660	55.400	53.2	-3.97	1.210	24.600	24.2	-1.63
SAR-17	2025/2/22	2600	50	D2600V2-1089	EX3DV4 - SN7590	DAE4 Sn1399	2.530	55.400	50.6	-8.66	1.150	24.600	23	-6.50
SAR-19	2025/2/23	2600	50	D2600V2-1008	EX3DV4 - SN7695	DAE4 Sn1707	2.650	58.000	53	-8.62	1.180	25.800	23.6	-8.53
SAR-17	2025/2/24	2600	50	D2600V2-1089	EX3DV4 - SN7590	DAE4 Sn1399	2.540	55.400	50.8	-8.30	1.160	24.600	23.2	-5.69
SAR-19	2025/3/2	2600	50	D2600V2-1078	EX3DV4 - SN7695	DAE4 Sn1707	2.530	55.400	50.6	-8.66	1.150	24.900	23	-7.63
SAR-19	2025/3/5	2600	50	D2600V2-1008	EX3DV4 - SN7695	DAE4 Sn1707	2.650	58.000	53	-8.62	1.190	25.800	23.8	-7.75
SAR-16	2025/3/7	2600	50	D2600V2-1008	EX3DV4 - SN7700	DAE4 Sn656	2.620	58.000	52.4	-9.66	1.200	25.800	24	-6.98
SAR-20	2025/1/25	3500	50	D3500V2-1036	EX3DV4 - SN7785	DAE4 Sn1694	3.450	67.400	69	2.37	1.340	25.100	26.8	6.77
SAR-20	2025/1/26	3500	50	D3500V2-1036	EX3DV4 - SN7785	DAE4 Sn1694	3.400	67.400	68	0.89	1.320	25.100	26.4	5.18
SAR-19	2025/2/5	3500	50	D3500V2-1036	EX3DV4 - SN7695	DAE4 Sn1707	3.100	67.400	62	-8.01	1.190	25.100	23.8	-5.18
SAR-19	2025/2/14	3500	50	D3500V2-1036	EX3DV4 - SN7695	DAE4 Sn1707	3.370	67.400	67.4	0.00	1.290	25.100	25.8	2.79
SAR-19	2025/2/16	3500	50	D3500V2-1036	EX3DV4 - SN7695	DAE4 Sn1707	3.340	67.400	66.8	-0.89	1.270	25.100	25.4	1.20
SAR-19	2025/2/17	3500	50	D3500V2-1036	EX3DV4 - SN7695	DAE4 Sn1707	3.100	67.400	62	-8.01	1.190	25.100	23.8	-5.18
SAR-18	2025/2/24	3500	50	D3500V2-1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.290	65.700	65.8	0.15	1.250	24.900	25	0.40
SAR-19	2025/3/3	3500	50	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1707	3.230	65.700	64.6	-1.67	1.240	24.900	24.8	-0.40
SAR-20	2025/3/13	3500	50	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1694	3.280	65.700	65.6	-0.15	1.290	24.900	25.8	3.61
SAR-19	2025/3/17	3500	50	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1707	3.180	65.700	63.6	-3.20	1.220	24.900	24.4	-2.01
SAR-20	2025/1/25	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1694	3.410	65.600	68.2	3.96	1.290	23.700	25.8	8.86
SAR-20	2025/1/26	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1694	3.360	65.600	67.2	2.44	1.270	23.700	25.4	7.17
SAR-19	2025/2/5	3700	50	D3700V2-1006	EX3DV4 - SN7695	DAE4 Sn1707	3.010	65.600	60.2	-8.23	1.150	23.700	23	-2.95
SAR-19	2025/2/8	3700	50	D3700V2-1006	EX3DV4 - SN7695	DAE4 Sn1707	3.220	65.600	64.4	-1.83	1.200	23.700	24	1.27
SAR-19	2025/2/14	3700	50	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1707	3.220	68.200	64.4	-5.57	1.200	24.700	24	-2.83
SAR-19	2025/2/16	3700	50	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1707	3.090	68.200	61.8	-9.38	1.150	24.700	23	-6.88
SAR-19	2025/2/17	3700	50	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1707	3.160	68.200	63.2	-7.33	1.180	24.700	23.6	-4.45
SAR-18	2025/2/24	3700	50	D3700V2-1022	EX3DV4 - SN7625	DAE4ip Sn1800	3.410	68.200	68.2	0.00	1.260	24.700	25.2	2.02
SAR-19	2025/3/3	3700	50	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1707	3.120	68.200	62.4	-8.50	1.170	24.700	23.4	-5.26
SAR-20	2025/3/13	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1694	3.170	65.600	63.4	-3.35	1.220	23.700	24.4	2.95
SAR-19	2025/3/17	3700	50	D3700V2-1006	EX3DV4 - SN7695	DAE4 Sn1707	3.300	65.600	66	0.61	1.230	23.700	24.6	3.80
SAR-20	2025/1/25	3900	50	D3900V2-1092	EX3DV4 - SN7785	DAE4 Sn1694	3.310	67.000	66.2	-1.19	1.180	23.200	23.6	1.72
SAR-20	2025/1/26	3900	50	D3900V2-1092	EX3DV4 - SN7785	DAE4 Sn1694	3.250	67.000	65	-2.99	1.170	23.200	23.4	0.86
SAR-19	2025/2/14	3900	50	D3900V2-1092	EX3DV4 - SN7695	DAE4 Sn1707	3.160	67.000	63.2	-5.67	1.120	23.200	22.4	-3.45
SAR-19	2025/2/16	3900	50	D3900V2-1092	EX3DV4 - SN7695	DAE4 Sn1707	3.250	67.000	65	-2.99	1.150	23.200	23	-0.86
SAR-19	2025/2/17	3900	50	D3900V2-1092	EX3DV4 - SN7695	DAE4 Sn1707	3.060	67.000	61.2	-8.66	1.090	23.200	21.8	-6.03
SAR-18	2025/2/24	3900	50	D3900V2-1092	EX3DV4 - SN7625	DAE4ip Sn1800	3.240	67.000	64.8	-3.28	1.140	23.200	22.8	-1.72
SAR-19	2025/3/3	3900	50	D3900V2-1092	EX3DV4 - SN7695	DAE4 Sn1707	3.080	67.000	61.6	-8.06	1.090	23.200	21.8	-6.03
SAR-11	2025/2/26	13	1000	CLA13-1011	EX3DV4 - SN3931	DAE4 Sn703	0.501	0.544	0.501	-7.22	0.312	0.340	0.312	-8.24
SAR-12	2025/1/31	2450	50	D2450V2-806	EX3DV4 - SN7793	DAE4 Sn1794	2.500	52.700	50	-5.12	1.180	24.400	23.6	-3.28
SAR-12	2025/2/3	2450	50	D2450V2-929	EX3DV4 - SN7793	DAE4 Sn1794	2.540	52.400	50.8	-3.05	1.200	24.700	24	-2.83
SAR-13	2025/2/4	2450	50	D2450V2-929	EX3DV4 - SN7814	DAE4 Sn661	2.760	52.400	55.2	5.34	1.300	24.700	26	5.26
SAR-13	2025/2/4	2450	50	D2450V2-929	EX3DV4 - SN7814	DAE4 Sn661	2.540	52.400	50.8	-3.05	1.190	24.700	23.8	-3.64
SAR-13	2025/2/5	2450	50	D2450V2-929	EX3DV4 - SN7814	DAE4 Sn661	2.650	52.400	53	1.15	1.250	24.700	25	1.21
SAR-17	2025/2/6	2450	50	D2450V2-929	EX3DV4 - SN7590	DAE4 Sn1399	2.540	52.400	50.8	-3.05	1.200	24.700	24	-2.83
SAR-17	2025/2/9	2450	50	D2450V2-929	EX3DV4 - SN7590	DAE4 Sn1399	2.830	52.400	56.6	8.02	1.330	24.700	26.6	7.69



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

SAR-17	2025/2/15	2450	50	D2450V2-929	EX3DV4 - SN7590	DAE4 Sn1399	2.450	52.400	49	-6.49	1.160	24.700	23.2	-6.07
SAR-14	2025/3/7	2450	50	D2450V2-929	EX3DV4 - SN7700	DAE4 Sn656	2.460	52.400	49.2	-6.11	1.170	24.700	23.4	-5.26
SAR-15	2025/3/12	2450	50	D2450V2-929	EX3DV4 - SN7439	DAE4 Sn661	2.490	52.400	49.8	-4.96	1.190	24.700	23.8	-3.64
SAR-12	2025/2/1	5250	50	D5GHzV2-1006	EX3DV4 - SN7793	DAE4 Sn1794	3.640	80.600	72.8	-9.68	1.040	22.800	20.8	-8.77
SAR-13	2025/2/6	5250	50	D5GHzV2-1006	EX3DV4 - SN7814	DAE4 Sn661	3.990	80.600	79.8	-0.99	1.130	22.800	22.6	-0.88
SAR-13	2025/2/7	5250	50	D5GHzV2-1128	EX3DV4 - SN7814	DAE4 Sn1647	3.810	77.500	76.2	-1.68	1.090	22.200	21.8	-1.80
SAR-13	2025/2/9	5250	50	D5GHzV2-1128	EX3DV4 - SN7814	DAE4 Sn1647	3.710	77.500	74.2	-4.26	1.060	22.200	21.2	-4.50
SAR-17	2025/2/10	5250	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	3.740	77.500	74.8	-3.48	1.070	22.200	21.4	-3.60
SAR-17	2025/2/11	5250	100	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	7.970	77.500	79.7	2.84	2.290	22.200	22.9	3.15
SAR-17	2025/2/13	5250	100	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	7.770	77.500	77.7	0.26	2.250	22.200	22.5	1.35
SAR-17	2025/2/26	5250	100	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	7.310	77.500	73.1	-5.68	2.110	22.200	21.1	-4.95
SAR-14	2025/3/3	5250	100	D5GHzV2-1128	EX3DV4 - SN7700	DAE4 Sn656	7.300	77.500	73	-5.81	2.100	22.200	21	-5.41
SAR-15	2025/3/13	5250	100	D5GHzV2-1006	EX3DV4 - SN7439	DAE4 Sn661	8.730	80.600	87.3	8.31	2.500	22.800	25	9.65
SAR-12	2025/2/1	5600	50	D5GHzV2-1006	EX3DV4 - SN7793	DAE4 Sn1794	4.060	83.400	81.2	-2.64	1.160	23.700	23.2	-2.11
SAR-13	2025/2/4	5600	50	D5GHzV2-1006	EX3DV4 - SN7814	DAE4 Sn661	4.070	83.400	81.4	-2.40	1.150	23.700	23	-2.95
SAR-13	2025/2/6	5600	50	D5GHzV2-1006	EX3DV4 - SN7814	DAE4 Sn661	3.930	83.400	78.6	-5.76	1.100	23.700	22	-7.17
SAR-13	2025/2/7	5600	50	D5GHzV2-1128	EX3DV4 - SN7814	DAE4 Sn1647	4.210	81.700	84.2	3.06	1.190	23.500	23.8	1.28
SAR-13	2025/2/9	5600	50	D5GHzV2-1128	EX3DV4 - SN7814	DAE4 Sn1647	4.030	81.700	80.6	-1.35	1.140	23.500	22.8	-2.98
SAR-17	2025/2/10	5600	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	4.120	81.700	82.4	0.86	1.170	23.500	23.4	-0.43
SAR-17	2025/2/11	5600	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	4.070	81.700	81.4	-0.37	1.170	23.500	23.4	-0.43
SAR-17	2025/2/13	5600	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	3.880	81.700	77.6	-5.02	1.120	23.500	22.4	-4.68
SAR-17	2025/2/26	5600	100	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	8.270	81.700	82.7	1.22	2.370	23.500	23.7	0.85
SAR-14	2025/3/3	5600	100	D5GHzV2-1128	EX3DV4 - SN7700	DAE4 Sn656	8.090	81.700	80.9	-0.98	2.310	23.500	23.1	-1.70
SAR-15	2025/3/13	5600	100	D5GHzV2-1006	EX3DV4 - SN7439	DAE4 Sn661	8.310	83.400	83.1	-0.36	2.360	23.700	23.6	-0.42
SAR-12	2025/2/1	5800	50	D5GHzV2-1006	EX3DV4 - SN7793	DAE4 Sn1794	3.700	80.600	74	-8.19	1.050	22.700	21	-7.49
SAR-13	2025/2/4	5800	50	D5GHzV2-1006	EX3DV4 - SN7814	DAE4 Sn661	3.880	80.600	77.6	-3.72	1.090	22.700	21.8	-3.96
SAR-13	2025/2/5	5800	50	D5GHzV2-1006	EX3DV4 - SN7814	DAE4 Sn661	3.810	80.600	76.2	-5.46	1.070	22.700	21.4	-5.73
SAR-13	2025/2/7	5800	50	D5GHzV2-1128	EX3DV4 - SN7814	DAE4 Sn1647	3.870	78.600	77.4	-1.53	1.090	22.500	21.8	-3.11
SAR-13	2025/2/9	5800	50	D5GHzV2-1128	EX3DV4 - SN7814	DAE4 Sn1647	3.750	78.600	75	-4.58	1.060	22.500	21.2	-5.78
SAR-17	2025/2/10	5800	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	3.600	78.600	72	-8.40	1.030	22.500	20.6	-8.44
SAR-17	2025/2/11	5800	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	3.660	78.600	73.2	-6.87	1.050	22.500	21	-6.67
SAR-17	2025/2/13	5800	100	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	7.730	78.600	77.3	-1.65	2.220	22.500	22.2	-1.33
SAR-17	2025/2/26	5800	100	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1399	7.260	78.600	72.6	-7.63	2.080	22.500	20.8	-7.56
SAR-14	2025/3/3	5800	100	D5GHzV2-1128	EX3DV4 - SN7700	DAE4 Sn656	7.460	78.600	74.6	-5.09	2.120	22.500	21.2	-5.78
SAR-15	2025/3/13	5800	100	D5GHzV2-1006	EX3DV4 - SN7439	DAE4 Sn661	7.970	80.600	79.7	-1.12	2.240	22.700	22.4	-1.32
SAR-17	2025/2/17	6500	100	D6.5GHzV2-1003	EX3DV4 - SN7590	DAE4 Sn1399	29.700	293.000	297	1.37	5.440	53.800	54.4	1.12
SAR-17	2025/2/18	6500	100	D6.5GHzV2-1003	EX3DV4 - SN7590	DAE4 Sn1399	29.200	293.000	292	-0.34	5.380	53.800	53.8	0.00
SAR-17	2025/2/19	6500	100	D6.5GHzV2-1003	EX3DV4 - SN7590	DAE4 Sn1399	29.000	293.000	290	-1.02	5.320	53.800	53.2	-1.12
SAR-17	2025/2/20	6500	100	D6.5GHzV2-1003	EX3DV4 - SN7590	DAE4 Sn1399	30.900	293.000	309	5.46	5.670	53.800	56.7	5.39
SAR-21	2025/3/5	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7694	DAE4 Sn1697	30.100	297.000	301	1.35	5.540	54.600	55.4	1.47
SAR-15	2025/3/14	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7439	DAE4 Sn661	27.000	297.000	270	-9.09	4.970	54.600	49.7	-8.97
SAR-15	2025/3/18	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7439	DAE4 Sn661	30.800	297.000	308	3.70	5.690	54.600	56.9	4.21
SAR-15	2025/3/19	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7439	DAE4 Sn661	28.600	297.000	286	-3.70	5.250	54.600	52.5	-3.85

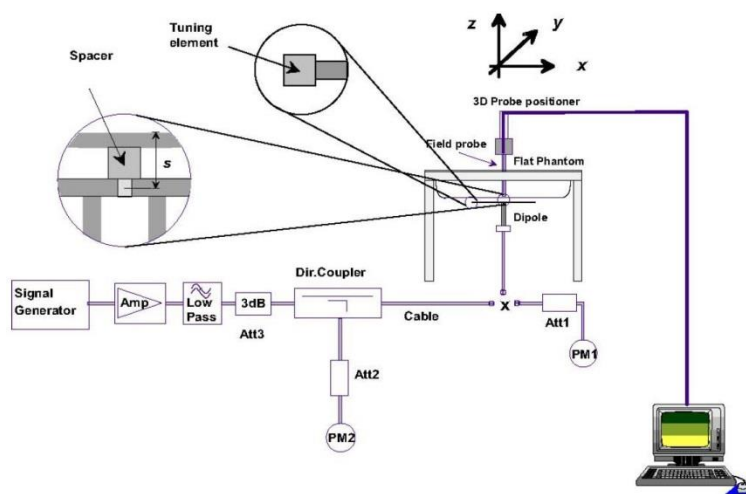


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

10.3 PD System Performance Check Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

Test Site	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured 4 cm ² (W/m ²)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
SAR14	10G	10GHz_1052	9461	1424	10mm	57.9	57.2	0.05	2025/1/17
SAR17	10G	10GHz_1052	9461	703	10mm	52.2	57.2	-0.40	2025/3/5

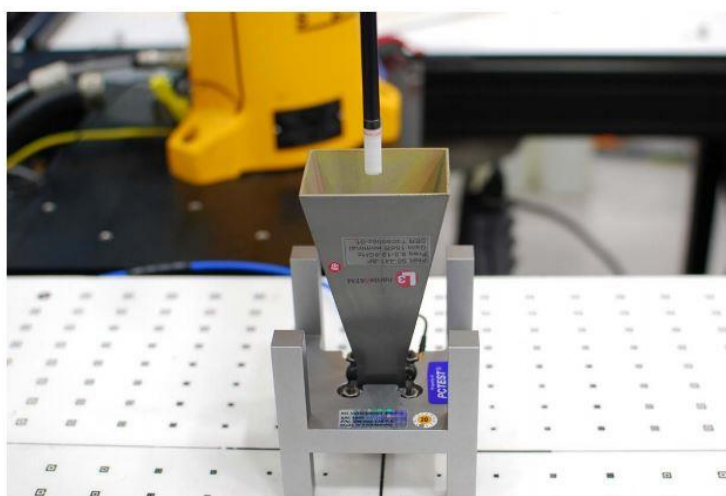


Figure 4-3
System Verification Setup Photo

System Performance Check Setup

11. RF Exposure Positions

11.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

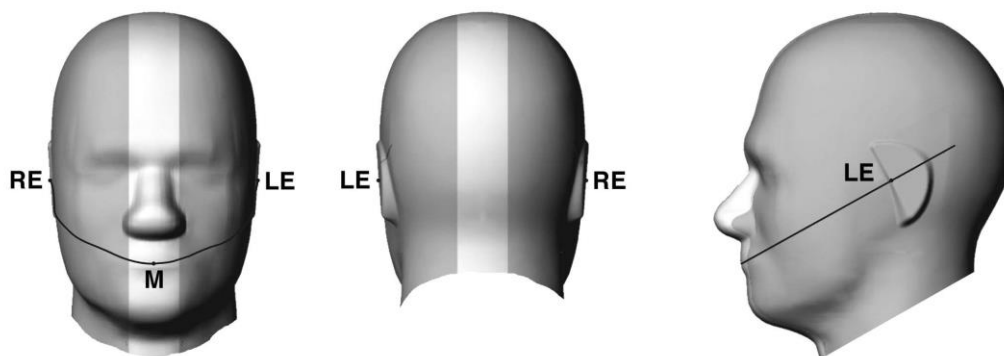


Fig 9.1.1 Front, back, and side views of SAM twin phantom

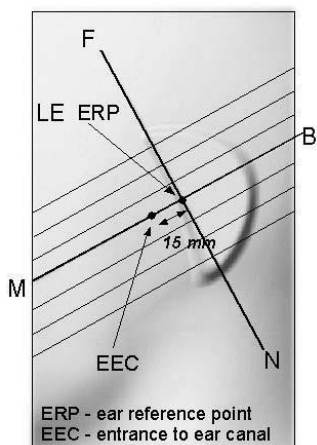


Fig 9.1.2 Close-up side view of phantom showing the ear region.

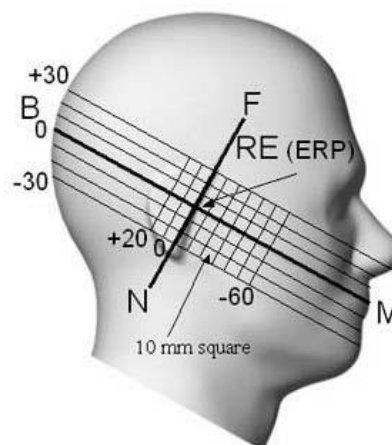


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

11.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

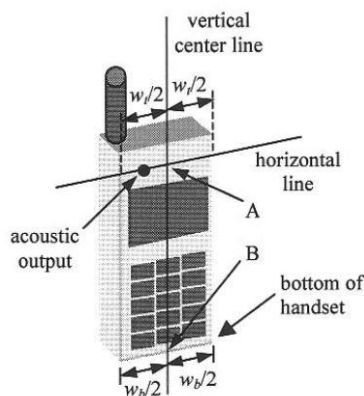


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

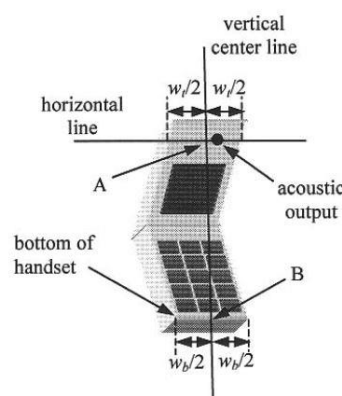


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

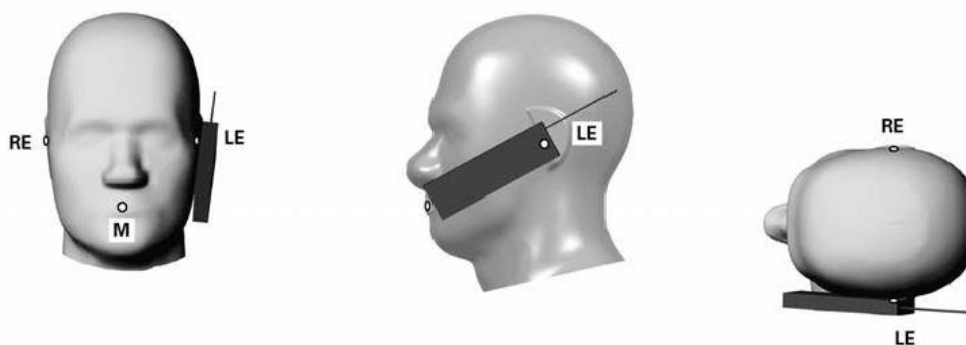


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

11.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

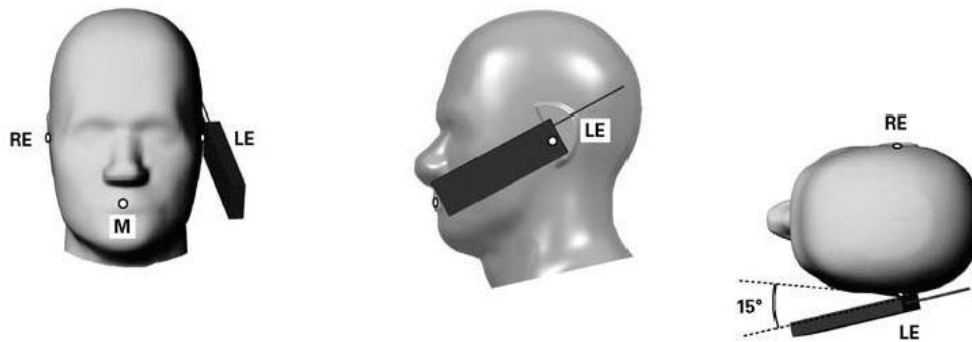


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 Body Worn Accessory

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 (see Figure 9.4). Per KDB648474 D04v01r03, 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 447498 D01v06 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 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 test 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.

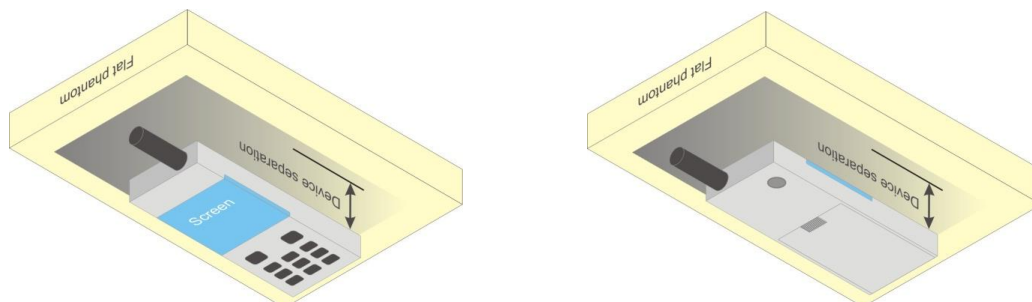


Fig 9.4 Body Worn Position



11.5 Product Specific Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 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, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.⁶ The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

11.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9$ cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.



12. Data Reuse Approach

FCC ID: A4RGLBW0 (Parent model) and FCC ID: A4RGK2MP (variant model)

- **PCB:** The PCB layout is identical with parent model.
- **Component Positions:** The position of the components on the PCB is not changed
- **Enclosure, Materials, and From Factor:** the Enclosure, Materials, and From Factor are exactly the same

Due to the same design are identical between parent model and variant model, SAR data reuse is requested and spot check data in this report is used to justify the SAR data reuse.

For variant model 1g SAR and 10g spot check SAR result does not exceed 3dB and 1g SAR < 1.2W/kg, 10g SAR < 3.0W/kg of the reference model, the max SAR summary are identical with parent model.

The applicant should take full responsibility that the test data as referenced in this report represent compliance for this FCC ID: A4RGK2MP

<Model Difference Information>

A4RGLBW0 and A4RGK2MP use the identical internal printed circuit board layout, and the major differences which may relate to RF are listed below:

- Depopulated mmWave Module.
- Populated module and transceiver for FR1 n79

The details of similarity and difference can be found in the confidential documents.

<Reference detail Section>

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	FCC ID (Parent Model)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Test on the variant
Part 2.1093 SAR	DXX	NFC	13.56	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check
	DSS	Bluetooth	2400~2483.5	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check
	DTS	BLE WiFi	2400~2483.5	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check
	NII	Wi-Fi	5150 ~ 5250 5250 ~ 5350 5470 ~ 5725 5725 ~ 5850 5850 ~ 5895	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check
	6CD	Wi-Fi	5925 ~ 6425 6425 ~ 6525 6525 ~ 6875 6875 ~ 7125	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Full Test on SAR and PD
	PCB CBE	GSM	850/1900	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check
		WCDMA	B2/4/5	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check
		LTE	B2/4/5/7/12/13/14/17/25/26/30/38/41/48/66/71	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check
		5G FR1	n2/5/7/12/14/25/26/30/38/41/66/71/77/78	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check
		NTN	B23/255	A4RGLBW0	Original Grant	FA4N0919C	A4RGK2MP	Spot check



13. Spot Check SAR Results

General Note:

1. SAR spot check verification on the worst cases from the original model was performed to demonstrate the test data from original model remains representative for the variant model.
2. If the 1-g SAR spot check result “does not exceed 3dB, but larger than 1.2 W/kg”, more spot check on the next-higher exposure position until the spot check result does not exceed 1.2 W/kg.
3. The spot check results don't show the SAR increase more than 3dB, therefore referring to the guidance in the KDB inquiry, SAR data reuse is justified.

1st as parent model

2nd as variant model

13.1 Head SAR

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (dB)
	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2	189	836.4	29.73	30.30	1.140			0.1	0.546	0.623	-0.50
	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2	189	836.4	29.66	30.30	1.159			-0.11	0.479	0.555	
	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	3	189	836.4	28.40	29.20	1.202			0.13	0.322	0.387	-0.58
	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	3	189	836.4	28.02	29.20	1.312			0.14	0.258	0.339	
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	251	848.8	23.72	25.30	1.439			-0.02	0.583	0.839	-0.11
01	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	251	848.8	23.66	25.30	1.459			-0.03	0.561	0.818	
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	3	189	836.4	23.74	25.30	1.432			0.09	0.561	0.803	-0.06
	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	3	189	836.4	23.59	25.30	1.483			0.01	0.534	0.792	
	1st	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	2/3	661	1880	26.56	27.40	1.213			0.19	0.483	0.586	-0.57
02	2nd	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	2/3	661	1880	26.44	27.40	1.247			0.13	0.412	0.514	
	1st	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2/3	661	1880	25.85	26.70	1.216			0.04	0.050	0.061	-0.14
	2nd	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2/3	661	1880	25.25	26.70	1.396			-0.06	0.042	0.059	
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2/3	9400	1880	24.03	25.50	1.403			-0.01	0.457	0.641	-0.25
03	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2/3	9400	1880	24.13	25.50	1.371			-0.15	0.441	0.605	
	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	9400	1880	24.36	25.50	1.300			-0.01	0.055	0.072	-1.17
	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	9400	1880	24.31	25.50	1.315			-0.12	0.042	0.055	
	1st	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2/3	1413	1732.6	24.09	25.50	1.384			0.12	0.425	0.588	-0.63
04	2nd	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2/3	1413	1732.6	24.00	25.50	1.413			0.01	0.360	0.509	
	1st	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	1413	1732.6	24.37	25.50	1.297			0.06	0.080	0.104	-0.21
	2nd	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	1413	1732.6	24.36	25.50	1.300			0.1	0.076	0.099	
	1st	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	4182	836.4	24.49	25.50	1.262			-0.07	0.312	0.394	-0.06
	2nd	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	4182	836.4	24.43	25.50	1.279			0.01	0.304	0.389	
	1st	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4233	846.6	21.69	23.40	1.483			0.06	0.609	0.903	-0.05
05	2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4233	846.6	21.65	23.40	1.496			0	0.596	0.892	
	1st	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	3	4182	836.4	21.97	22.70	1.183			0.08	0.612	0.724	-0.01
	2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	3	4182	836.4	21.77	22.70	1.239			0	0.584	0.723	
	1st	LTE Band 7_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2	21100	2535	23.98	25.00	1.265			-0.09	0.651	0.823	-0.42
06	2nd	LTE Band 7_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2	21100	2535	24.13	25.00	1.222			0.01	0.616	0.753	
	1st	LTE Band 7_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	3	21100	2535	23.98	24.20	1.052			-0.09	0.651	0.685	-0.43
	2nd	LTE Band 7_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	3	21100	2535	24.13	24.20	1.016			0.01	0.616	0.626	
	1st	LTE Band 7_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2/3	21100	2535	24.10	25.00	1.230			-0.01	0.135	0.166	-0.65
	2nd	LTE Band 7_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2/3	21100	2535	24.10	25.00	1.230			0.16	0.116	0.143	
	1st	LTE Band 12_Ant 0	10M_QPSK_1_0	Left Cheek	0mm	2/3	23095	707.5	24.36	25.00	1.159			0.1	0.202	0.234	-0.58
	2nd	LTE Band 12_Ant 0	10M_QPSK_1_0	Left Cheek	0mm	2/3	23095	707.5	24.44	25.00	1.138			0.11	0.183	0.208	
	1st	LTE Band 12_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	2	23095	707.5	22.12	23.80	1.472			0.07	0.546	0.804	-1.74
07	2nd	LTE Band 12_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	2	23095	707.5	21.96	23.80	1.528			0.04	0.352	0.538	
	1st	LTE Band 12_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	3	23095	707.5	22.12	23.10	1.253			0.07	0.546	0.684	-1.74
	2nd	LTE Band 12_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	3	23095	707.5	21.96	23.10	1.300			0.04	0.352	0.458	
	1st	LTE Band 13_Ant 0	10M_QPSK_1_0	Left Cheek	0mm	2/3	23230	782	24.14	25.00	1.219			0.07	0.255	0.311	-0.29



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

	2nd	LTE Band 13_Ant 0	10M_QPSK_1_0	Left Cheek	0mm	2/3	23230	782	24.15	25.00	1.216			0.11	0.240	0.292	
	1st	LTE Band 13_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	2	23230	782	22.13	23.90	1.503			0.08	0.560	0.842	-0.37
08	2nd	LTE Band 13_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	2	23230	782	22.30	23.90	1.445			0.08	0.535	0.773	
	1st	LTE Band 13_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	3	23230	782	22.13	23.20	1.279			0.08	0.560	0.716	-0.37
	2nd	LTE Band 13_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	3	23230	782	22.30	23.20	1.230			0.08	0.535	0.658	
	1st	LTE Band 14_Ant 0	10M_QPSK_1_0	Left Cheek	0mm	2/3	23330	793	24.04	25.00	1.247			0.12	0.264	0.329	-0.15
	2nd	LTE Band 14_Ant 0	10M_QPSK_1_0	Left Cheek	0mm	2/3	23330	793	24.02	25.00	1.253			-0.1	0.254	0.318	
	1st	LTE Band 14_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	2	23330	793	22.43	24.00	1.435			0.02	0.627	0.900	-0.57
09	2nd	LTE Band 14_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	2	23330	793	22.37	24.00	1.455			0.03	0.543	0.790	
	1st	LTE Band 14_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	3	23330	793	22.43	23.20	1.194			0.02	0.627	0.749	-0.57
	2nd	LTE Band 14_Ant 1	10M_QPSK_25_0	Right Cheek	0mm	3	23330	793	22.37	23.20	1.211			0.03	0.543	0.657	
	1st	LTE Band 25_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2/3	26340	1880	23.66	25.00	1.361			0.01	0.462	0.629	-0.90
	2nd	LTE Band 25_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2/3	26340	1880	23.98	25.00	1.265			-0.02	0.404	0.511	
	1st	LTE Band 25_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2/3	26340	1880	23.76	25.00	1.330			-0.14	0.047	0.063	-0.28
	2nd	LTE Band 25_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2/3	26340	1880	23.89	25.00	1.291			-0.02	0.046	0.059	
	1st	LTE Band 25_Ant 1	20M_QPSK_50_0	Right Cheek	0mm	2	26340	1880	16.85	18.40	1.429			0	0.576	0.823	-0.84
10	2nd	LTE Band 25_Ant 1	20M_QPSK_50_0	Right Cheek	0mm	2	26340	1880	16.85	18.40	1.429			0.01	0.490	0.700	
	1st	LTE Band 25_Ant 1	20M_QPSK_50_0	Right Cheek	0mm	3	26340	1880	16.85	17.70	1.216			0	0.576	0.701	-0.84
	2nd	LTE Band 25_Ant 1	20M_QPSK_50_0	Right Cheek	0mm	3	26340	1880	16.85	17.70	1.216			0.01	0.490	0.596	
	1st	LTE Band 25_Ant 5	20M_QPSK_1_0	Left Cheek	0mm	2	26340	1880	18.42	20.00	1.439			0.01	0.578	0.832	-1.36
	2nd	LTE Band 25_Ant 5	20M_QPSK_1_0	Left Cheek	0mm	2	26340	1880	18.37	20.00	1.455			0.02	0.451	0.656	
	1st	LTE Band 25_Ant 5	20M_QPSK_1_0	Left Cheek	0mm	3	26340	1880	18.42	19.00	1.143			0.01	0.578	0.661	-1.36
	2nd	LTE Band 25_Ant 5	20M_QPSK_1_0	Left Cheek	0mm	3	26340	1880	18.37	19.00	1.156			0.02	0.451	0.521	
	1st	LTE Band 26_Ant 0	15M_QPSK_1_0	Left Cheek	0mm	2/3	26865	831.5	24.03	25.00	1.250			0.13	0.342	0.428	-1.13
	2nd	LTE Band 26_Ant 0	15M_QPSK_1_0	Left Cheek	0mm	2/3	26865	831.5	23.93	25.00	1.279			-0.02	0.272	0.348	
	1st	LTE Band 26_Ant 1	15M_QPSK_36_0	Right Cheek	0mm	2	26865	831.5	21.94	23.50	1.432			-0.1	0.557	0.798	-0.32
11	2nd	LTE Band 26_Ant 1	15M_QPSK_36_0	Right Cheek	0mm	2	26865	831.5	21.93	23.50	1.435			0.04	0.517	0.742	
	1st	LTE Band 26_Ant 1	15M_QPSK_36_0	Right Cheek	0mm	3	26865	831.5	21.94	22.40	1.112			-0.1	0.557	0.619	-0.31
	2nd	LTE Band 26_Ant 1	15M_QPSK_36_0	Right Cheek	0mm	3	26865	831.5	21.93	22.40	1.114			0.04	0.517	0.576	
	1st	LTE Band 30_Ant 2	10M_QPSK_1_0	Right Cheek	0mm	2/3	27710	2310	22.71	23.80	1.285			0.11	0.512	0.658	-0.41
12	2nd	LTE Band 30_Ant 2	10M_QPSK_1_0	Right Cheek	0mm	2/3	27710	2310	23.01	23.80	1.199			-0.12	0.499	0.599	
	1st	LTE Band 30_Ant 0	10M_QPSK_1_0	Right Cheek	0mm	2/3	27710	2310	20.22	21.50	1.343			0.12	0.041	0.055	-0.50
	2nd	LTE Band 30_Ant 0	10M_QPSK_1_0	Right Cheek	0mm	2/3	27710	2310	20.55	21.50	1.245			0.14	0.039	0.049	
	1st	LTE Band 38_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2	38000	2595	23.96	25.10	1.300	62.9	1.006	-0.13	0.577	0.755	-0.51
13	2nd	LTE Band 38_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2	38000	2595	23.96	25.10	1.300	62.9	1.006	-0.14	0.514	0.672	
	1st	LTE Band 38_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	3	38000	2595	23.96	24.70	1.186	62.9	1.006	-0.13	0.577	0.688	-0.50
	2nd	LTE Band 38_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	3	38000	2595	23.96	24.70	1.186	62.9	1.006	-0.14	0.514	0.613	
	1st	LTE Band 41_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2	40620	2593	23.95	25.10	1.303	62.9	1.006	-0.02	0.547	0.717	-0.42
14	2nd	LTE Band 41_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2	40620	2593	24.20	25.10	1.230	62.9	1.006	0.02	0.531	0.657	
	1st	LTE Band 41_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	3	40620	2593	23.95	24.70	1.189	62.9	1.006	-0.02	0.547	0.654	-0.42
	2nd	LTE Band 41_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	3	40620	2593	24.20	24.70	1.122	62.9	1.006	0.02	0.531	0.599	
	1st	LTE Band 41_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2/3	40620	2593	24.01	25.10	1.285	62.9	1.006	0.17	0.084	0.109	-0.29
	2nd	LTE Band 41_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2/3	40620	2593	24.08	25.10	1.265	62.9	1.006	0.12	0.080	0.102	
	1st	LTE Band 48_Ant 6	20M_QPSK_50_0	Left Cheek	0mm	2/3	55830	3609	19.71	21.00	1.346	62.9	1.006	0.19	0.114	0.154	-0.57
	2nd	LTE Band 48_Ant 6	20M_QPSK_50_0	Left Cheek	0mm	2/3	55830	3609	19.97	21.00	1.268	62.9	1.006	0.04	0.106	0.135	
	1st	LTE Band 48_Ant 7	20M_QPSK_1_0	Right Cheek	0mm	2/3	55830	3609	21.45	23.30	1.531	62.9	1.006	-0.16	0.112	0.173	-0.65
15	2nd	LTE Band 48_Ant 7	20M_QPSK_1_0	Right Cheek	0mm	2/3	55830	3609	21.41	23.30	1.545	62.9	1.006	0.15	0.096	0.149	
	1st	LTE Band 66_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2/3	132322	1745	23.88	25.00	1.294			-0.03	0.534	0.691	-0.03
	2nd	LTE Band 66_Ant 2	20M_QPSK_1_0	Right Cheek	0mm	2/3	132322	1745	23.79	25.00	1.321			-0.01	0.520	0.687	
	1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2	132322	1745	23.91	25.00	1.285			-0.06	0.064	0.082	-0.50
	2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2	132322	1745	23.83	25.00	1.309			-0.02	0.056	0.073	
	1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	3	132322	1745	23.91	25.00	1.285			-0.06	0.064	0.082	-0.50
	2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	3	132322	1745	23.83	25.00	1.309			-0.02	0.056	0.073	
	1st	LTE Band 66_Ant 1	20M_QPSK_50_0	Right Cheek	0mm	2	132322	1745	15.33	16.70	1.371			0.04	0.713	0.977	-0.67
16	2nd	LTE Band 66_Ant 1	20M_QPSK_50_0	Right Cheek	0mm	2	132322	1745	15.30	16.70	1.380			0.03	0.607	0.838	
	1st	LTE Band 66_Ant 1	20M_QPSK_50_0	Right Cheek	0mm	3	132322	1745	15.33	15.50	1.040			0.04	0.713	0.741	-0.66



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

	2nd	LTE Band 66_Ant 1	20M_QPSK_50_0	Right Cheek	0mm	3	132322	1745	15.30	15.50	1.047			0.03	0.607	0.636	
	1st	LTE Band 66_Ant 5	20M_QPSK_50_0	Left Cheek	0mm	2	132322	1745	19.46	20.60	1.300			-0.03	0.605	0.787	-0.31
	2nd	LTE Band 66_Ant 5	20M_QPSK_50_0	Left Cheek	0mm	2	132322	1745	19.52	20.60	1.282			-0.03	0.572	0.733	
	1st	LTE Band 66_Ant 5	20M_QPSK_50_0	Left Cheek	0mm	3	132322	1745	18.46	19.40	1.242			0	0.490	0.608	-0.52
	2nd	LTE Band 66_Ant 5	20M_QPSK_50_0	Left Cheek	0mm	3	132322	1745	18.52	19.40	1.225			-0.02	0.440	0.539	
	1st	LTE Band 71_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2/3	133297	680.5	24.55	25.00	1.109			-0.1	0.240	0.266	-0.36
	2nd	LTE Band 71_Ant 0	20M_QPSK_1_0	Left Cheek	0mm	2/3	133297	680.5	24.59	25.00	1.099			0.13	0.223	0.245	
	1st	LTE Band 71_Ant 1	20M_QPSK_1_0	Right Cheek	0mm	2	133297	680.5	22.84	24.30	1.400			0	0.659	0.922	-0.81
17	2nd	LTE Band 71_Ant 1	20M_QPSK_1_0	Right Cheek	0mm	2	133297	680.5	22.83	24.30	1.403			0.01	0.546	0.766	
	1st	LTE Band 71_Ant 1	20M_QPSK_1_0	Right Cheek	0mm	3	133297	680.5	22.84	23.40	1.138			0	0.659	0.750	-0.81
	2nd	LTE Band 71_Ant 1	20M_QPSK_1_0	Right Cheek	0mm	3	133297	680.5	22.83	23.40	1.140			0.01	0.546	0.623	
	1st	FR1 n7_Ant 2	50M_BPSK_135_68	Right Cheek	0mm	2	507000	2535	22.83	24.30	1.403			0.08	0.650	0.912	-0.49
18	2nd	FR1 n7_Ant 2	50M_BPSK_135_68	Right Cheek	0mm	2	507000	2535	23.09	24.30	1.321			0.04	0.617	0.815	
	1st	FR1 n7_Ant 2	50M_BPSK_135_68	Right Cheek	0mm	3	507000	2535	22.83	23.10	1.064			0.08	0.650	0.692	-0.49
	2nd	FR1 n7_Ant 2	50M_BPSK_135_68	Right Cheek	0mm	3	507000	2535	23.09	23.10	1.002			0.04	0.617	0.618	
	1st	FR1 n7_Ant 0	50M_BPSK_135_68	Left Cheek	0mm	2/3	507000	2535	23.95	25.00	1.274			0.1	0.125	0.159	-0.71
	2nd	FR1 n7_Ant 0	50M_BPSK_135_68	Left Cheek	0mm	2/3	507000	2535	24.16	25.00	1.213			-0.18	0.111	0.135	
	1st	FR1 n12_Ant 0	15M_BPSK_36_22	Left Cheek	0mm	2/3	141500	707.5	24.20	25.00	1.202			0.1	0.254	0.305	-1.44
	2nd	FR1 n12_Ant 0	15M_BPSK_36_22	Left Cheek	0mm	2/3	141500	707.5	24.50	25.00	1.122			0.08	0.195	0.219	
	1st	FR1 n12_Ant 1	15M_BPSK_36_22	Right Cheek	0mm	2	141500	707.5	22.38	23.30	1.236			-0.01	0.741	0.916	-0.57
19	2nd	FR1 n12_Ant 1	15M_BPSK_36_22	Right Cheek	0mm	2	141500	707.5	22.39	23.30	1.233			0	0.651	0.803	
	1st	FR1 n12_Ant 1	15M_BPSK_36_22	Right Cheek	0mm	3	141500	707.5	22.38	22.40	1.005			-0.01	0.741	0.744	-0.57
	2nd	FR1 n12_Ant 1	15M_BPSK_36_22	Right Cheek	0mm	3	141500	707.5	22.39	22.40	1.002			0	0.651	0.653	
	1st	FR1 n14_Ant 0	10M_BPSK_1_1	Left Cheek	0mm	2/3	158600	793	23.93	25.00	1.279			0.13	0.265	0.339	-1.02
	2nd	FR1 n14_Ant 0	10M_BPSK_1_1	Left Cheek	0mm	2/3	158600	793	24.01	25.00	1.256			-0.16	0.213	0.268	
	1st	FR1 n14_Ant 1	10M_BPSK_1_1	Right Cheek	0mm	2	158600	793	22.23	23.30	1.279			-0.01	0.720	0.921	-0.31
20	2nd	FR1 n14_Ant 1	10M_BPSK_1_1	Right Cheek	0mm	2	158600	793	22.36	23.30	1.242			0	0.690	0.857	
	1st	FR1 n14_Ant 1	10M_BPSK_1_1	Right Cheek	0mm	3	158600	793	22.23	22.40	1.040			-0.01	0.720	0.749	-0.32
	2nd	FR1 n14_Ant 1	10M_BPSK_1_1	Right Cheek	0mm	3	158600	793	22.36	22.40	1.009			0	0.690	0.696	
	1st	FR1 n25_Ant 2	40M_BPSK_1_1	Right Cheek	0mm	2/3	376500	1882.5	23.69	25.00	1.352			0.02	0.458	0.619	-0.96
	2nd	FR1 n25_Ant 2	40M_BPSK_1_1	Right Cheek	0mm	2/3	376500	1882.5	23.90	25.00	1.288			-0.02	0.385	0.496	
	1st	FR1 n25_Ant 0	40M_BPSK_108_54	Left Cheek	0mm	2/3	376500	1882.5	23.87	25.00	1.297			0.05	0.040	0.052	-0.17
	2nd	FR1 n25_Ant 0	40M_BPSK_108_54	Left Cheek	0mm	2/3	376500	1882.5	23.92	25.00	1.282			0.14	0.039	0.050	
	1st	FR1 n25_Ant 1	40M_BPSK_1_1	Right Cheek	0mm	2	376500	1882.5	14.61	15.60	1.256			0	0.729	0.916	-2.90
	2nd	FR1 n25_Ant 1	40M_BPSK_1_1	Right Cheek	0mm	2	376500	1882.5	14.56	15.60	1.271			-0.07	0.370	0.470	
	1st	FR1 n25_Ant 1	40M_BPSK_1_1	Right Cheek	0mm	3	376500	1882.5	14.61	14.70	1.021			0	0.729	0.744	-2.90
	2nd	FR1 n25_Ant 1	40M_BPSK_1_1	Right Cheek	0mm	3	376500	1882.5	14.56	14.70	1.033			-0.07	0.370	0.382	
	1st	FR1 n25_Ant 5	40M_BPSK_108_54	Left Cheek	0mm	2	376500	1882.5	18.36	19.80	1.393			0	0.650	0.906	-0.35
21	2nd	FR1 n25_Ant 5	40M_BPSK_108_54	Left Cheek	0mm	2	376500	1882.5	18.31	19.80	1.409			-0.02	0.593	0.836	
	1st	FR1 n25_Ant 5	40M_BPSK_108_54	Left Cheek	0mm	3	376500	1882.5	18.36	18.60	1.057			0	0.650	0.687	-0.35
	2nd	FR1 n25_Ant 5	40M_BPSK_108_54	Left Cheek	0mm	3	376500	1882.5	18.31	18.60	1.069			-0.02	0.593	0.634	
	1st	FR1 n26_Ant 0	20M_BPSK_50_28	Left Cheek	0mm	2/3	166300	831.5	23.92	25.00	1.282			0.17	0.288	0.369	-0.28
	2nd	FR1 n26_Ant 0	20M_BPSK_50_28	Left Cheek	0mm	2/3	166300	831.5	23.96	25.00	1.271			0.04	0.272	0.346	
	1st	FR1 n26_Ant 1	20M_BPSK_50_28	Right Cheek	0mm	2	166300	831.5	21.91	22.90	1.256			-0.05	0.734	0.922	-0.13
22	2nd	FR1 n26_Ant 1	20M_BPSK_50_28	Right Cheek	0mm	2	166300	831.5	21.97	22.90	1.239			0.02	0.722	0.894	
	1st	FR1 n26_Ant 1	20M_BPSK_50_28	Right Cheek	0mm	3	166300	831.5	21.91	22.00	1.021			-0.05	0.734	0.749	-0.13
	2nd	FR1 n26_Ant 1	20M_BPSK_50_28	Right Cheek	0mm	3	166300	831.5	21.97	22.00	1.007			0.02	0.722	0.727	
	1st	FR1 n30_Ant 2	10M_BPSK_25_14	Right Cheek	0mm	2/3	462000	2310	22.84	23.80	1.247			-0.08	0.457	0.570	-0.84
23	2nd	FR1 n30_Ant 2	10M_BPSK_25_14	Right Cheek	0mm	2/3	462000	2310	23.25	23.80	1.135			0.08	0.414	0.470	
	1st	FR1 n30_Ant 0	10M_BPSK_25_14	Right Cheek	0mm	2/3	462000	2310	20.42	21.50	1.282			-0.14	0.036	0.046	-0.61
	2nd	FR1 n30_Ant 0	10M_BPSK_25_14	Right Cheek	0mm	2/3	462000	2310	20.78	21.50	1.180			-0.12	0.034	0.040	
	1st	FR1 n38_Ant 2	40M_BPSK_1_1	Right Cheek	0mm	2	519000	2595	22.97	24.00	1.268			-0.15	0.716	0.908	-0.33
24	2nd	FR1 n38_Ant 2	40M_BPSK_1_1	Right Cheek	0mm	2	519000	2595	23.07	24.00	1.239			-0.13	0.680	0.842	
	1st	FR1 n38_Ant 2	40M_BPSK_1_1	Right Cheek	0mm	3	519000	2595	21.97	22.80	1.211			0.09	0.513	0.621	-0.34
	2nd	FR1 n38_Ant 2	40M_BPSK_1_1	Right Cheek	0mm	3	519000	2595	22.07	22.80	1.183			0.11	0.485	0.574	
	1st	FR1 n41_Ant 2	100M_BPSK_1_1	Right Cheek	0mm	2	518598	2592.99	23.05	24.00	1.245			0	0.679	0.845	-0.59



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

	2nd	FR1 n41_Ant 2	100M_BPSK_1_1	Right Cheek	0mm	2	518598	2592.99	23.12	24.00	1.225			0.02	0.603	0.738	
	1st	FR1 n41_Ant 2	100M_BPSK_1_1	Right Cheek	0mm	3	518598	2592.99	22.05	22.80	1.189			0.1	0.551	0.655	-0.45
	2nd	FR1 n41_Ant 2	100M_BPSK_1_1	Right Cheek	0mm	3	518598	2592.99	22.10	22.80	1.175			0.07	0.502	0.590	
	1st	FR1 n41_Ant 0	100M_BPSK_135_69	Left Cheek	0mm	2/3	518598	2592.99	24.02	25.00	1.253			0.04	0.159	0.199	-0.95
	2nd	FR1 n41_Ant 0	100M_BPSK_135_69	Left Cheek	0mm	2/3	518598	2592.99	24.14	25.00	1.219			0.14	0.131	0.160	
	1st	FR1 n41_Ant 1	100M_BPSK_135_69	Right Cheek	0mm	2	518598	2592.99	17.23	17.90	1.167			0.04	0.765	0.893	-0.80
	2nd	FR1 n41_Ant 1	100M_BPSK_135_69	Right Cheek	0mm	2	518598	2592.99	17.29	17.90	1.151			0.12	0.646	0.743	
	1st	FR1 n41_Ant 1	100M_BPSK_135_69	Right Cheek	0mm	3	518598	2592.99	16.23	16.70	1.114			0.03	0.662	0.738	-0.17
	2nd	FR1 n41_Ant 1	100M_BPSK_135_69	Right Cheek	0mm	3	518598	2592.99	16.29	16.70	1.099			-0.04	0.645	0.709	
	1st	FR1 n41_Ant 5	100M_BPSK_135_69	Left Cheek	0mm	2	518598	2592.99	16.65	17.10	1.109			-0.01	0.787	0.873	-0.14
25	2nd	FR1 n41_Ant 5	100M_BPSK_135_69	Left Cheek	0mm	2	518598	2592.99	16.78	17.10	1.076			-0.02	0.785	0.845	
	1st	FR1 n41_Ant 5	100M_BPSK_135_69	Left Cheek	0mm	3	518598	2592.99	14.63	15.90	1.340			0.12	0.595	0.797	-0.56
	2nd	FR1 n41_Ant 5	100M_BPSK_135_69	Left Cheek	0mm	3	518598	2592.99	14.79	15.90	1.291			0.08	0.542	0.700	
	1st	FR1 n66_Ant 2	40M_BPSK_108_54	Right Cheek	0mm	2/3	349000	1745	23.79	25.00	1.321			0	0.402	0.531	-0.74
	2nd	FR1 n66_Ant 2	40M_BPSK_108_54	Right Cheek	0mm	2/3	349000	1745	23.94	25.00	1.276			0.1	0.351	0.448	
	1st	FR1 n66_Ant 0	40M_BPSK_1_108	Left Cheek	0mm	2/3	349000	1745	24.06	25.00	1.242			-0.15	0.061	0.076	-0.48
	2nd	FR1 n66_Ant 0	40M_BPSK_1_108	Left Cheek	0mm	2/3	349000	1745	24.05	25.00	1.245			-0.04	0.055	0.068	
	1st	FR1 n66_Ant 1	40M_BPSK_108_54	Right Cheek	0mm	2	349000	1745	15.61	16.50	1.227			-0.03	0.742	0.911	-0.40
	2nd	FR1 n66_Ant 1	40M_BPSK_108_54	Right Cheek	0mm	2	349000	1745	15.62	16.50	1.225			-0.03	0.678	0.830	
	1st	FR1 n66_Ant 1	40M_BPSK_108_54	Right Cheek	0mm	3	349000	1745	14.51	15.60	1.285			0.02	0.517	0.664	-0.41
	2nd	FR1 n66_Ant 1	40M_BPSK_108_54	Right Cheek	0mm	3	349000	1745	14.49	15.60	1.291			0.02	0.468	0.604	
	1st	FR1 n66_Ant 5	40M_BPSK_108_54	Left Cheek	0mm	2	349000	1745	19.53	21.00	1.403			0.08	0.634	0.889	-0.26
26	2nd	FR1 n66_Ant 5	40M_BPSK_108_54	Left Cheek	0mm	2	349000	1745	19.54	21.00	1.400			-0.04	0.598	0.837	
	1st	FR1 n66_Ant 5	40M_BPSK_108_54	Left Cheek	0mm	3	349000	1745	19.53	19.80	1.064			0.08	0.634	0.675	-0.27
	2nd	FR1 n66_Ant 5	40M_BPSK_108_54	Left Cheek	0mm	3	349000	1745	19.54	19.80	1.062			-0.04	0.598	0.635	
	1st	FR1 n71_Ant 0	20M_BPSK_1_1	Left Cheek	0mm	2/3	136100	680.5	24.25	25.00	1.189			0.09	0.221	0.263	-0.19
	2nd	FR1 n71_Ant 0	20M_BPSK_1_1	Left Cheek	0mm	2/3	136100	680.5	24.25	25.00	1.189			0.18	0.212	0.252	
	1st	FR1 n71_Ant 1	20M_BPSK_1_1	Right Tilted	0mm	2	136100	680.5	22.81	24.40	1.442			0.01	0.596	0.860	-0.21
27	2nd	FR1 n71_Ant 1	20M_BPSK_1_1	Right Tilted	0mm	2	136100	680.5	22.72	24.40	1.472			0.01	0.557	0.820	
	1st	FR1 n71_Ant 1	20M_BPSK_1_1	Right Tilted	0mm	3	136100	680.5	22.81	23.70	1.227			0.01	0.596	0.732	-0.21
	2nd	FR1 n71_Ant 1	20M_BPSK_1_1	Right Tilted	0mm	3	136100	680.5	22.72	23.70	1.253			0.01	0.557	0.698	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Left Cheek	0mm	2	656000	3840	24.07	25.00	1.239			0.05	0.475	0.588	-1.06
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Left Cheek	0mm	2	656000	3840	24.32	25.00	1.169			0.03	0.394	0.461	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Left Cheek	0mm	3	656000	3840	24.07	24.40	1.079			0.05	0.475	0.512	-1.06
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Left Cheek	0mm	3	656000	3840	24.32	24.40	1.019			0.03	0.394	0.401	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Left Cheek	0mm	2	633332	3499.98	23.94	25.00	1.276			-0.02	0.750	0.957	-1.41
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Left Cheek	0mm	2	633332	3499.98	24.35	25.00	1.161			0.03	0.595	0.691	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Left Cheek	0mm	3	633332	3499.98	23.94	24.40	1.112			-0.02	0.750	0.834	-1.42
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Left Cheek	0mm	3	633332	3499.98	24.35	24.40	1.012			0.03	0.595	0.602	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Right Cheek	0mm	2	656000	3840	23.70	24.50	1.202			-0.01	0.481	0.578	-0.42
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Right Cheek	0mm	2	656000	3840	23.98	24.50	1.127			-0.08	0.466	0.525	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Right Cheek	0mm	3	656000	3840	22.68	23.70	1.265			-0.16	0.313	0.396	-0.46
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Right Cheek	0mm	3	656000	3840	22.94	23.70	1.191			-0.05	0.299	0.356	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Right Cheek	0mm	2	633332	3499.98	23.80	24.50	1.175			-0.05	0.516	0.606	-1.43
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Right Cheek	0mm	2	633332	3499.98	23.83	24.50	1.167			-0.04	0.374	0.436	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Right Cheek	0mm	3	633332	3499.98	22.81	23.70	1.227			-0.06	0.355	0.436	-1.18
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Right Cheek	0mm	3	633332	3499.98	22.83	23.70	1.222			-0.15	0.272	0.332	
	1st	FR1 n77_Ant 1	100M_BPSK_135_69	Right Cheek	0mm	2	656000	3840	14.02	14.70	1.169			-0.05	0.762	0.891	-0.48
28	2nd	FR1 n77_Ant 1	100M_BPSK_135_69	Right Cheek	0mm	2	656000	3840	13.96	14.70	1.186			-0.08	0.673	0.798	
	1st	FR1 n77_Ant 1	100M_BPSK_135_69	Right Cheek	0mm	3	656000	3840	13.02	13.50	1.117			0.1	0.622	0.695	-0.04
	2nd	FR1 n77_Ant 1	100M_BPSK_135_69	Right Cheek	0mm	3	656000	3840	12.98	13.50	1.127			0.17	0.611	0.689	
	1st	FR1 n77_Ant 1	100M_BPSK_1_1	Right Cheek	0mm	2	633332	3499.98	14.16	14.70	1.132			0.04	0.448	0.507	-0.26
	2nd	FR1 n77_Ant 1	100M_BPSK_1_1	Right Cheek	0mm	2	633332	3499.98	14.19	14.70	1.125			-0.05	0.425	0.478	
	1st	FR1 n77_Ant 1	100M_BPSK_1_1	Right Cheek	0mm	3	633332	3499.98	13.16	13.50	1.081			0.19	0.378	0.409	-0.15
	2nd	FR1 n77_Ant 1	100M_BPSK_1_1	Right Cheek	0mm	3	633332	3499.98	13.18	13.50	1.076			0.06	0.367	0.395	
	1st	FR1 n77_Ant 5	100M_BPSK_135_69	Left Cheek	0mm	2	656000	3840	15.93	17.60	1.469			-0.06	0.510	0.749	-1.27



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

	2nd	FR1 n77_Ant 5	100M_BPSK_135_69	Left Cheek	0mm	2	656000	3840	16.40	17.60	1.318			-0.07	0.424	0.559	
	1st	FR1 n77_Ant 5	100M_BPSK_135_69	Left Cheek	0mm	3	656000	3840	15.93	16.90	1.250			-0.06	0.510	0.638	-1.27
	2nd	FR1 n77_Ant 5	100M_BPSK_135_69	Left Cheek	0mm	3	656000	3840	16.40	16.90	1.122			-0.07	0.424	0.476	
	1st	FR1 n77_Ant 5	100M_BPSK_1_1	Left Cheek	0mm	2	633332	3499.98	16.17	17.60	1.390			-0.05	0.274	0.381	-1.40
	2nd	FR1 n77_Ant 5	100M_BPSK_1_1	Left Cheek	0mm	2	633332	3499.98	16.68	17.60	1.236			-0.12	0.223	0.276	
	1st	FR1 n77_Ant 5	100M_BPSK_1_1	Left Cheek	0mm	3	633332	3499.98	16.17	16.90	1.183			-0.05	0.274	0.324	-1.39
	2nd	FR1 n77_Ant 5	100M_BPSK_1_1	Left Cheek	0mm	3	633332	3499.98	16.68	16.90	1.052			-0.12	0.223	0.235	

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (db)
	1st	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	11	2462	15.93	17.50	1.435	100	1.000	0.02	0.814	1.168	-0.36
29	2nd	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	11	2462	15.93	17.50	1.435	100	1.000	0	0.749	1.075	
	1st	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1	11	2462	15.64	17.50	1.535	100	1.000	0.01	0.576	0.884	-0.96
	2nd	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1	11	2462	15.64	17.50	1.535	100	1.000	0	0.462	0.709	
	1st	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	1	6	2437	15.53	17.50	1.574	99.51	1.005	0.03	0.574	0.908	-0.12
		WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	1	6	2437	15.73	17.50	1.503	99.51	1.005	0.03	0.230	0.347	
	2nd	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	1	6	2437	15.53	17.50	1.574	99.51	1.005	0.01	0.558	0.883	
		WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	1	6	2437	15.73	17.50	1.503	99.51	1.005	0.01	0.226	0.341	
	1st	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	2	11	2462	15.93	16.00	1.016	100	1.000	0.02	0.814	0.827	-0.36
	2nd	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	2	11	2462	15.93	16.00	1.016	100	1.000	0	0.749	0.761	
	1st	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	2	11	2462	15.64	16.00	1.086	100	1.000	0.01	0.576	0.626	-0.96
	2nd	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	2	11	2462	15.64	16.00	1.086	100	1.000	0	0.462	0.502	
	1st	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	2	6	2437	15.53	16.00	1.114	99.51	1.005	0.03	0.574	0.643	-0.12
		WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	2	6	2437	15.73	16.00	1.064	99.51	1.005	0.03	0.230	0.246	
	2nd	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	2	6	2437	15.53	16.00	1.114	99.51	1.005	0.01	0.558	0.625	
		WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	2	6	2437	15.73	16.00	1.064	99.51	1.005	0.01	0.226	0.242	
	1st	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	3	6	2437	11.89	13.50	1.449	100	1.000	0.1	0.217	0.314	-0.14
	2nd	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	3	6	2437	11.89	13.50	1.449	100	1.000	-0.08	0.210	0.304	
	1st	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3	1	2412	11.62	13.50	1.542	100	1.000	-0.08	0.140	0.216	-0.16
	2nd	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3	1	2412	11.62	13.50	1.542	100	1.000	-0.1	0.135	0.208	
	1st	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	3	11	2462	11.86	13.50	1.459	99.51	1.005	0.1	0.287	0.421	-0.14
		WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	3	11	2462	11.56	13.50	1.563	99.51	1.005	0.1	0.109	0.171	
	2nd	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	3	11	2462	11.86	13.50	1.459	99.51	1.005	-0.07	0.278	0.408	
		WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	3	11	2462	11.56	13.50	1.563	99.51	1.005	-0.07	0.094	0.148	
	1st	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	4	11	2462	9.87	10.00	1.030	100	1.000	-0.02	0.184	0.190	-0.16
	2nd	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	4	11	2462	9.87	10.00	1.030	100	1.000	-0.04	0.178	0.183	
	1st	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	4	6	2437	9.88	10.00	1.028	100	1.000	-0.16	0.154	0.158	-1.12
	2nd	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	4	6	2437	9.88	10.00	1.028	100	1.000	0	0.119	0.122	
	1st	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	4	11	2462	9.65	10.00	1.084	99.51	1.005	-0.11	0.175	0.191	-0.12
		WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	4	11	2462	9.87	10.00	1.030	99.51	1.005	-0.11	0.047	0.049	
	2nd	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	4	11	2462	9.65	10.00	1.084	99.51	1.005	-0.02	0.171	0.186	
		WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	4	11	2462	9.87	10.00	1.030	99.51	1.005	-0.02	0.053	0.055	
	1st	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3(4)	1	60	5300	14.97	15.00	1.007	99.51	1.005	-0.04	0.315	0.319	-0.36
		WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3(3)	1	60	5300	13.88	15.00	1.294	99.51	1.005	-0.04	0.907	1.180	
	2nd	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3(4)	1	60	5300	14.97	15.00	1.007	99.51	1.005	0.06	0.172	0.174	
		WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3(3)	1	60	5300	13.88	15.00	1.294	99.51	1.005	0.06	0.836	1.087	
	1st	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(4)	2	54	5270	13.11	13.50	1.094	97.87	1.022	0.07	0.190	0.212	-0.44
		WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(3)	2	54	5270	13.44	13.50	1.014	97.87	1.022	0.07	0.421	0.436	
	2nd	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(4)	2	54	5270	13.11	13.50	1.094	97.87	1.022	0.1	0.001	0.001	
		WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(3)	2	54	5270	13.44	13.50	1.014	97.87	1.022	0.1	0.380	0.394	
	1st	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	54	5270	13.11	13.50	1.094	97.87	1.022	0.07	0.190	0.212	-0.44
		WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	54	5270	13.44	13.50	1.014	97.87	1.022	0.07	0.421	0.436	
	2nd	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	54	5270	13.11	13.50	1.094	97.87	1.022	0.1	0.001	0.001	
		WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	54	5270	13.44	13.50	1.014	97.87	1.022	0.1	0.380	0.394	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	58	5290	8.88	10.00	1.294	97.87	1.022	0.14	0.060	0.079	-0.82



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	58	5290	8.67	10.00	1.358	97.87	1.022	0.14	0.163	0.226	
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	58	5290	8.88	10.00	1.294	97.87	1.022	0.02	0.064	0.085	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	58	5290	8.67	10.00	1.358	97.87	1.022	0.02	0.135	0.187	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	1	122	5610	15.78	16.50	1.180	97.98	1.021	0	0.934	1.126	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	1	122	5610	15.43	16.50	1.279	97.98	1.021	0	0.104	0.136	
31	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	1	122	5610	15.78	16.50	1.180	97.98	1.021	-0.04	0.606	0.730	-1.88
		WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	1	122	5610	15.43	16.50	1.279	97.98	1.021	-0.04	0.128	0.167	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	2	122	5610	13.86	14.00	1.033	97.98	1.021	0.14	0.595	0.627	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	2	122	5610	13.60	14.00	1.096	97.98	1.021	0.14	0.050	0.056	-1.54
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	2	122	5610	13.86	14.00	1.033	97.98	1.021	0.14	0.417	0.440	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	2	122	5610	13.60	14.00	1.096	97.98	1.021	0.14	0.072	0.081	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	3	122	5610	9.05	11.00	1.567	97.98	1.021	-0.19	0.268	0.429	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	3	122	5610	9.07	11.00	1.560	97.98	1.021	-0.19	0.010	0.016	-1.98
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	3	122	5610	9.05	11.00	1.567	97.98	1.021	0.19	0.170	0.272	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	3	122	5610	9.07	11.00	1.560	97.98	1.021	0.19	0.017	0.027	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	4	122	5610	7.48	8.00	1.127	97.98	1.021	-0.17	0.159	0.183	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	4	122	5610	7.24	8.00	1.191	97.98	1.021	-0.17	0.033	0.040	-1.80
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	4	122	5610	7.48	8.00	1.127	97.98	1.021	-0.02	0.105	0.121	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	4	122	5610	7.24	8.00	1.191	97.98	1.021	-0.02	0.030	0.036	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1	155	5775	15.06	16.00	1.242	97.87	1.022	0.02	0.224	0.284	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1	155	5775	15.66	16.00	1.081	97.87	1.022	0.02	1.000	1.105	-0.37
32	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1	155	5775	15.06	16.00	1.242	97.87	1.022	-0.02	0.249	0.316	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1	155	5775	15.66	16.00	1.081	97.87	1.022	-0.02	0.918	1.015	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	2	155	5775	13.51	14.00	1.119	97.87	1.022	0.16	0.363	0.415	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	2	155	5775	13.99	14.00	1.002	97.87	1.022	0.16	0.598	0.613	-0.39
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	2	155	5775	13.51	14.00	1.119	97.87	1.022	0.09	0.052	0.059	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	2	155	5775	13.99	14.00	1.002	97.87	1.022	0.09	0.547	0.560	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	155	5775	11.14	12.00	1.219	97.87	1.022	0.03	0.094	0.117	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	155	5775	11.39	12.00	1.151	97.87	1.022	0.03	0.354	0.416	-0.79
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	155	5775	11.14	12.00	1.219	97.87	1.022	0.04	0.089	0.111	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	155	5775	11.39	12.00	1.151	97.87	1.022	0.04	0.295	0.347	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	155	5775	8.00	8.00	1.000	97.87	1.022	-0.1	0.037	0.038	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	155	5775	7.96	8.00	1.009	97.87	1.022	-0.1	0.210	0.217	-0.49
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	155	5775	8.00	8.00	1.000	97.87	1.022	0.16	0.051	0.052	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	155	5775	7.96	8.00	1.009	97.87	1.022	0.16	0.188	0.194	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1	171	5855	15.12	17.00	1.542	97.87	1.022	0.12	0.167	0.263	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1	171	5855	15.60	17.00	1.380	97.87	1.022	0.12	0.817	1.153	-0.08
33	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1	171	5855	15.12	17.00	1.542	97.87	1.022	-0.09	0.249	0.392	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1	171	5855	15.60	17.00	1.380	97.87	1.022	-0.09	0.803	1.133	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	2	171	5855	14.00	14.50	1.122	97.87	1.022	0.14	0.046	0.053	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	2	171	5855	14.18	14.50	1.076	97.87	1.022	0.14	0.622	0.684	-0.22
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	2	171	5855	14.00	14.50	1.122	97.87	1.022	-0.11	0.068	0.078	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	2	171	5855	14.18	14.50	1.076	97.87	1.022	-0.11	0.591	0.650	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	171	5855	10.54	12.50	1.570	97.87	1.022	0	0.068	0.109	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	171	5855	10.96	12.50	1.426	97.87	1.022	0	0.275	0.401	-0.33
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	171	5855	10.54	12.50	1.570	97.87	1.022	0.06	0.075	0.120	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	171	5855	10.96	12.50	1.426	97.87	1.022	0.06	0.255	0.372	
	1st	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	171	5855	8.33	8.50	1.040	97.87	1.022	0.14	0.028	0.030	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	171	5855	8.12	8.50	1.091	97.87	1.022	0.14	0.191	0.213	-0.30
	2nd	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	171	5855	8.33	8.50	1.040	97.87	1.022	0.13	0.040	0.043	
		WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	171	5855	8.12	8.50	1.091	97.87	1.022	0.13	0.178	0.199	



Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (db)
	1st	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	39	2441	12.50	12.50	1.000	77.07	1.081	-0.11	0.273	0.295	-0.09
34	2nd	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	39	2441	12.50	12.50	1.000	77.07	1.081	-0.07	0.267	0.289	
	1st	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	1	39	2441	13.44	13.50	1.014	76.96	1.082	-0.11	0.211	0.231	-0.04
	2nd	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	1	39	2441	13.44	13.50	1.014	76.96	1.082	-0.02	0.209	0.229	

13.2 Hotspot SAR

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (dB)
	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	28.40	28.90	1.122			0.02	0.651	0.730	-0.35
35	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	28.02	28.90	1.225			-0.01	0.550	0.674	
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	27.14	28.10	1.247			-0.03	0.177	0.221	-1.24
	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	26.88	28.10	1.324			0.17	0.125	0.166	
	1st	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Edge	10mm	4	661	1880	26.56	26.70	1.033			-0.04	0.663	0.685	-0.34
	2nd	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Edge	10mm	4	661	1880	26.44	26.70	1.062			0	0.597	0.634	
	1st	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Edge	10mm	4	661	1880	19.72	21.40	1.472			0.02	0.495	0.729	-0.14
36	2nd	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Edge	10mm	4	661	1880	19.75	21.40	1.462			0.04	0.483	0.706	
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Right Edge	10mm	4	9400	1880	22.25	23.10	1.216			-0.02	0.635	0.772	-0.41
	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Right Edge	10mm	4	9400	1880	22.51	23.10	1.146			0	0.613	0.702	
	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	9400	1880	16.35	18.00	1.462			0.01	0.489	0.715	-0.07
37	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	9400	1880	16.26	18.00	1.493			0.03	0.471	0.703	
	1st	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Edge	10mm	4	1413	1732.6	21.47	22.50	1.268			0.01	0.402	0.510	-0.16
	2nd	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Edge	10mm	4	1413	1732.6	21.40	22.50	1.288			0.01	0.381	0.491	
	1st	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	1413	1732.6	19.66	19.70	1.009			0	0.828	0.836	-0.04
38	2nd	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	1413	1732.6	19.68	19.70	1.005			-0.01	0.825	0.829	
	1st	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.49	25.50	1.262			-0.03	0.603	0.761	-0.16
39	2nd	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.43	25.50	1.279			-0.01	0.574	0.734	
	1st	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.45	25.50	1.274			-0.02	0.292	0.372	-0.63
	2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.15	25.50	1.365			0.05	0.236	0.322	
	1st	LTE Band 7_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	21100	2535	20.16	20.90	1.186			0.01	0.445	0.528	-0.75
	2nd	LTE Band 7_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	21100	2535	20.26	20.90	1.159			0.01	0.383	0.444	
	1st	LTE Band 7_Ant 0	20M_QPSK_1_0	Bottom Edge	10mm	4	21350	2560	17.92	19.80	1.542			-0.01	0.532	0.820	-0.56
40	2nd	LTE Band 7_Ant 0	20M_QPSK_1_0	Bottom Edge	10mm	4	21350	2560	18.36	19.80	1.393			0.01	0.517	0.720	
	1st	LTE Band 12_Ant 0	10M_QPSK_1_0	Left Edge	10mm	4	23095	707.5	24.36	25.00	1.159			-0.11	0.379	0.439	-0.34
41	2nd	LTE Band 12_Ant 0	10M_QPSK_1_0	Left Edge	10mm	4	23095	707.5	24.44	25.00	1.138			-0.11	0.357	0.406	
	1st	LTE Band 12_Ant 1	10M_QPSK_1_0	Left Edge	10mm	4	23095	707.5	24.05	25.00	1.245			-0.04	0.239	0.297	-2.45
	2nd	LTE Band 12_Ant 1	10M_QPSK_1_0	Left Edge	10mm	4	23095	707.5	24.06	25.00	1.242			-0.16	0.136	0.169	
	1st	LTE Band 13_Ant 0	10M_QPSK_1_0	Left Edge	10mm	4	23230	782	22.74	23.60	1.219			-0.03	0.411	0.501	-0.07
42	2nd	LTE Band 13_Ant 0	10M_QPSK_1_0	Left Edge	10mm	4	23230	782	22.77	23.60	1.211			0.01	0.407	0.493	
	1st	LTE Band 13_Ant 1	10M_QPSK_1_0	Left Edge	10mm	4	23230	782	22.61	23.70	1.285			-0.01	0.347	0.446	-0.65
	2nd	LTE Band 13_Ant 1	10M_QPSK_1_0	Left Edge	10mm	4	23230	782	22.71	23.70	1.256			-0.01	0.306	0.384	
	1st	LTE Band 14_Ant 0	10M_QPSK_1_0	Left Edge	10mm	4	23330	793	22.60	23.50	1.230			0.02	0.383	0.471	-0.09
43	2nd	LTE Band 14_Ant 0	10M_QPSK_1_0	Left Edge	10mm	4	23330	793	22.57	23.50	1.239			0.02	0.372	0.461	
	1st	LTE Band 14_Ant 1	10M_QPSK_1_0	Left Edge	10mm	4	23330	793	22.73	23.90	1.309			-0.02	0.329	0.431	-0.12
	2nd	LTE Band 14_Ant 1	10M_QPSK_1_0	Left Edge	10mm	4	23330	793	22.74	23.90	1.306			-0.01	0.321	0.419	
	1st	LTE Band 25_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	26340	1880	20.11	21.10	1.256			0.02	0.387	0.486	-0.91
	2nd	LTE Band 25_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	26340	1880	20.41	21.10	1.172			0.02	0.336	0.394	
	1st	LTE Band 25_Ant 0	20M_QPSK_1_0	Bottom Edge	10mm	4	26340	1880	16.02	17.60	1.439			-0.01	0.505	0.727	-0.32



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

44	2nd	LTE Band 25_Ant 0	20M_QPSK_1_0	Bottom Edge	10mm	4	26340	1880	16.17	17.60	1.390			-0.01	0.486	0.676	
	1st	LTE Band 25_Ant 1	20M_QPSK_50_0	Left Edge	10mm	4	26340	1880	20.59	21.30	1.178			0	0.326	0.384	-0.02
	2nd	LTE Band 25_Ant 1	20M_QPSK_50_0	Left Edge	10mm	4	26340	1880	20.56	21.30	1.186			0	0.322	0.382	
	1st	LTE Band 25_Ant 5	20M_QPSK_50_0	Right Edge	10mm	4	26340	1880	21.50	22.50	1.259			0.02	0.538	0.677	-1.61
	2nd	LTE Band 25_Ant 5	20M_QPSK_50_0	Right Edge	10mm	4	26340	1880	21.58	22.50	1.236			-0.02	0.378	0.467	
	1st	LTE Band 26_Ant 0	15M_QPSK_1_0	Back	10mm	4	26865	831.5	24.03	24.50	1.114			0.01	0.485	0.540	-0.12
45	2nd	LTE Band 26_Ant 0	15M_QPSK_1_0	Back	10mm	4	26865	831.5	23.93	24.50	1.140			-0.04	0.460	0.525	
	1st	LTE Band 26_Ant 1	15M_QPSK_1_0	Left Edge	10mm	4	26865	831.5	23.73	25.00	1.340			-0.01	0.239	0.320	-2.06
	2nd	LTE Band 26_Ant 1	15M_QPSK_1_0	Left Edge	10mm	4	26865	831.5	23.66	25.00	1.361			-0.02	0.146	0.199	
	1st	LTE Band 30_Ant 2	10M_QPSK_1_0	Right Edge	10mm	4	27710	2310	19.58	20.50	1.236			-0.16	0.456	0.564	-0.34
	2nd	LTE Band 30_Ant 2	10M_QPSK_1_0	Right Edge	10mm	4	27710	2310	19.67	20.50	1.211			-0.01	0.431	0.522	
	1st	LTE Band 30_Ant 0	10M_QPSK_1_0	Bottom Edge	10mm	4	27710	2310	19.38	19.60	1.052			-0.03	0.796	0.837	-0.63
46	2nd	LTE Band 30_Ant 0	10M_QPSK_1_0	Bottom Edge	10mm	4	27710	2310	19.52	19.60	1.019			-0.03	0.711	0.724	
	1st	LTE Band 38_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	38000	2595	21.60	22.00	1.096	62.9	1.006	-0.03	0.488	0.538	-0.01
47	2nd	LTE Band 38_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	38000	2595	21.60	22.00	1.096	62.9	1.006	-0.05	0.487	0.537	
	1st	LTE Band 41_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	40620	2593	21.62	22.00	1.091	62.9	1.006	-0.01	0.481	0.528	-0.40
	2nd	LTE Band 41_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	40620	2593	21.99	22.00	1.002	62.9	1.006	-0.02	0.477	0.481	
	1st	LTE Band 41_Ant 0	20M_QPSK_50_0	Bottom Edge	10mm	4	40620	2593	21.44	21.80	1.086	62.9	1.006	-0.02	0.748	0.818	-0.25
48	2nd	LTE Band 41_Ant 0	20M_QPSK_50_0	Bottom Edge	10mm	4	40620	2593	21.59	21.80	1.050	62.9	1.006	0	0.731	0.772	
	1st	LTE Band 48_Ant 6	20M_QPSK_50_0	Left Edge	10mm	4	55340	3560	19.42	21.00	1.439	62.9	1.006	-0.02	0.421	0.609	-0.83
49	2nd	LTE Band 48_Ant 6	20M_QPSK_50_0	Left Edge	10mm	4	55340	3560	20.05	21.00	1.245	62.9	1.006	0.02	0.402	0.503	
	1st	LTE Band 48_Ant 7	20M_QPSK_1_0	Right Edge	10mm	4	55830	3609	20.51	21.30	1.199	62.9	1.006	-0.02	0.399	0.481	-1.41
	2nd	LTE Band 48_Ant 7	20M_QPSK_1_0	Right Edge	10mm	4	55830	3609	20.62	21.30	1.169	62.9	1.006	-0.11	0.296	0.348	
	1st	LTE Band 66_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	132322	1745	21.66	22.30	1.159			0	0.511	0.592	-0.18
	2nd	LTE Band 66_Ant 2	20M_QPSK_1_0	Right Edge	10mm	4	132322	1745	21.59	22.30	1.178			0.01	0.482	0.568	
	1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Bottom Edge	10mm	4	132572	1770	18.90	19.30	1.096			0	0.753	0.826	-0.15
50	2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Bottom Edge	10mm	4	132572	1770	18.84	19.30	1.112			0	0.718	0.798	
	1st	LTE Band 66_Ant 1	20M_QPSK_50_0	Back	10mm	4	132322	1745	20.56	21.50	1.242			0	0.559	0.694	-0.28
	2nd	LTE Band 66_Ant 1	20M_QPSK_50_0	Back	10mm	4	132322	1745	20.50	21.50	1.259			-0.01	0.517	0.651	
	1st	LTE Band 66_Ant 5	20M_QPSK_50_0	Right Edge	10mm	4	132322	1745	22.52	23.30	1.197			-0.1	0.557	0.667	-0.79
	2nd	LTE Band 66_Ant 5	20M_QPSK_50_0	Right Edge	10mm	4	132322	1745	22.52	23.30	1.197			-0.03	0.465	0.556	
	1st	LTE Band 71_Ant 0	20M_QPSK_1_0	Left Edge	10mm	4	133297	680.5	24.55	25.00	1.109			-0.01	0.381	0.423	-0.22
51	2nd	LTE Band 71_Ant 0	20M_QPSK_1_0	Left Edge	10mm	4	133297	680.5	24.59	25.00	1.099			-0.01	0.366	0.402	
	1st	LTE Band 71_Ant 1	20M_QPSK_1_0	Left Edge	10mm	4	133297	680.5	24.05	25.00	1.245			0.01	0.305	0.380	-1.07
	2nd	LTE Band 71_Ant 1	20M_QPSK_1_0	Left Edge	10mm	4	133297	680.5	24.09	25.00	1.233			0.01	0.241	0.297	
	1st	FR1 n7_Ant 2	50M_BPSK_135_68	Right Edge	10mm	4	507000	2535	21.25	21.50	1.059			0.02	0.792	0.839	-0.55
52	2nd	FR1 n7_Ant 2	50M_BPSK_135_68	Right Edge	10mm	4	507000	2535	21.49	21.50	1.002			0.01	0.738	0.740	
	1st	FR1 n7_Ant 0	50M_BPSK_135_68	Bottom Edge	10mm	4	507000	2535	17.80	19.50	1.479			0.01	0.512	0.757	-0.43
	2nd	FR1 n7_Ant 0	50M_BPSK_135_68	Bottom Edge	10mm	4	507000	2535	18.09	19.50	1.384			-0.03	0.496	0.686	
	1st	FR1 n12_Ant 0	15M_BPSK_36_22	Left Edge	10mm	4	141500	707.5	24.20	24.50	1.072			0	0.478	0.512	-0.45
53	2nd	FR1 n12_Ant 0	15M_BPSK_36_22	Left Edge	10mm	4	141500	707.5	24.50	24.50	1.000			-0.01	0.462	0.462	
	1st	FR1 n12_Ant 1	15M_BPSK_1_1	Left Edge	10mm	4	141500	707.5	24.13	25.00	1.222			-0.03	0.245	0.299	-0.92
	2nd	FR1 n12_Ant 1	15M_BPSK_1_1	Left Edge	10mm	4	141500	707.5	24.17	25.00	1.211			-0.01	0.200	0.242	
	1st	FR1 n14_Ant 0	10M_BPSK_1_1	Left Edge	10mm	4	158600	793	22.71	23.70	1.256			0.01	0.388	0.487	-0.04
54	2nd	FR1 n14_Ant 0	10M_BPSK_1_1	Left Edge	10mm	4	158600	793	22.70	23.70	1.259			-0.03	0.384	0.483	
	1st	FR1 n14_Ant 1	10M_BPSK_1_1	Left Edge	10mm	4	158600	793	23.83	24.00	1.040			-0.02	0.445	0.463	-0.39
	2nd	FR1 n14_Ant 1	10M_BPSK_1_1	Left Edge	10mm	4	158600	793	23.79	24.00	1.050			-0.06	0.403	0.423	
	1st	FR1 n25_Ant 2	40M_BPSK_1_1	Right Edge	10mm	4	376500	1882.5	20.65	21.60	1.245			-0.01	0.421	0.524	-0.23
	2nd	FR1 n25_Ant 2	40M_BPSK_1_1	Right Edge	10mm	4	376500	1882.5	20.80	21.60	1.202			0.02	0.413	0.497	
	1st	FR1 n25_Ant 0	40M_BPSK_108_54	Bottom Edge	10mm	4	376500	1882.5	17.11	18.10	1.256			0	0.662	0.831	-0.50
	2nd	FR1 n25_Ant 0	40M_BPSK_108_54	Bottom Edge	10mm	4	376500	1882.5	17.45	18.10	1.161			-0.03	0.638	0.741	
	1st	FR1 n25_Ant 1	40M_BPSK_1_1	Back	10mm	4	376500	1882.5	19.97	20.50	1.130			0	0.746	0.843	-2.37
	2nd	FR1 n25_Ant 1	40M_BPSK_1_1	Back	10mm	4	376500	1882.5	20.03	20.50	1.114			0	0.438	0.488	
	1st	FR1 n25_Ant 5	40M_BPSK_108_54	Right Edge	10mm	4	376500	1882.5	21.08	21.70	1.153			0	0.716	0.826	-0.29
55	2nd	FR1 n25_Ant 5	40M_BPSK_108_54	Right Edge	10mm	4	376500	1882.5	21.23	21.70	1.114			0.02	0.693	0.772	
	1st	FR1 n26_Ant 0	20M_BPSK_50_28	Back	10mm	4	166300	831.5	23.92	25.00	1.282			0	0.502	0.644	-0.40



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

56	2nd	FR1 n26_Ant 0	20M_BPSK_50_28	Back	10mm	4	166300	831.5	23.96	25.00	1.271			-0.02	0.463	0.588	
	1st	FR1 n26_Ant 1	20M_BPSK_1_1	Back	10mm	4	166300	831.5	23.69	25.00	1.352			0.01	0.248	0.335	-1.54
	2nd	FR1 n26_Ant 1	20M_BPSK_1_1	Back	10mm	4	166300	831.5	23.80	25.00	1.318			-0.01	0.178	0.235	
	1st	FR1 n30_Ant 2	10M_BPSK_25_14	Right Edge	10mm	4	462000	2310	20.48	20.50	1.005			-0.03	0.577	0.580	-0.04
	2nd	FR1 n30_Ant 2	10M_BPSK_25_14	Right Edge	10mm	4	462000	2310	20.50	20.50	1.000			-0.03	0.575	0.575	
	1st	FR1 n30_Ant 0	10M_BPSK_1_1	Bottom Edge	10mm	4	462000	2310	18.07	19.80	1.489			-0.04	0.507	0.755	-0.51
57	2nd	FR1 n30_Ant 0	10M_BPSK_1_1	Bottom Edge	10mm	4	462000	2310	18.50	19.80	1.349			-0.03	0.498	0.672	
	1st	FR1 n38_Ant 2	40M_BPSK_1_1	Right Edge	10mm	4	519000	2595	20.87	21.80	1.239			0.01	0.626	0.775	-0.31
58	2nd	FR1 n38_Ant 2	40M_BPSK_1_1	Right Edge	10mm	4	519000	2595	21.01	21.80	1.199			0.01	0.602	0.722	
	1st	FR1 n41_Ant 2	100M_BPSK_1_1	Right Edge	10mm	4	518598	2592.99	21.03	21.80	1.194			-0.02	0.648	0.774	-0.14
	2nd	FR1 n41_Ant 2	100M_BPSK_1_1	Right Edge	10mm	4	518598	2592.99	21.08	21.80	1.180			0	0.635	0.750	
	1st	FR1 n41_Ant 0	100M_BPSK_1_1	Bottom Edge	10mm	4	518598	2592.99	18.98	20.10	1.294			-0.01	0.650	0.841	-0.26
59	2nd	FR1 n41_Ant 0	100M_BPSK_1_1	Bottom Edge	10mm	4	518598	2592.99	18.93	20.10	1.309			0.01	0.605	0.792	
	1st	FR1 n41_Ant 1	100M_BPSK_135_69	Back	10mm	4	518598	2592.99	21.91	22.20	1.069			0.01	0.594	0.635	-0.45
	2nd	FR1 n41_Ant 1	100M_BPSK_135_69	Back	10mm	4	518598	2592.99	22.15	22.20	1.012			0.08	0.565	0.572	
	1st	FR1 n41_Ant 5	100M_BPSK_135_69	Right Edge	10mm	4	518598	2592.99	22.23	23.20	1.250			-0.03	0.596	0.745	-0.36
	2nd	FR1 n41_Ant 5	100M_BPSK_135_69	Right Edge	10mm	4	518598	2592.99	22.53	23.20	1.167			0	0.587	0.685	
	1st	FR1 n66_Ant 2	40M_BPSK_1_1	Right Edge	10mm	4	349000	1745	22.01	22.30	1.069			0.01	0.542	0.579	-0.14
	2nd	FR1 n66_Ant 2	40M_BPSK_1_1	Right Edge	10mm	4	349000	1745	21.94	22.30	1.086			-0.02	0.515	0.560	
	1st	FR1 n66_Ant 0	40M_BPSK_1_1	Bottom Edge	10mm	4	349000	1745	18.29	19.70	1.384			-0.01	0.608	0.841	-0.34
	2nd	FR1 n66_Ant 0	40M_BPSK_1_1	Bottom Edge	10mm	4	349000	1745	18.23	19.70	1.403			0.04	0.554	0.777	
	1st	FR1 n66_Ant 1	40M_BPSK_108_54	Back	10mm	4	349000	1745	21.58	21.90	1.076			0.01	0.783	0.843	-0.08
60	2nd	FR1 n66_Ant 1	40M_BPSK_108_54	Back	10mm	4	349000	1745	21.58	21.90	1.076			0	0.769	0.828	
	1st	FR1 n66_Ant 5	40M_BPSK_1_1	Right Edge	10mm	4	349000	1745	21.57	22.50	1.239			-0.01	0.467	0.579	-0.48
	2nd	FR1 n66_Ant 5	40M_BPSK_1_1	Right Edge	10mm	4	349000	1745	21.62	22.50	1.225			0	0.423	0.518	
	1st	FR1 n71_Ant 0	20M_BPSK_1_1	Left Edge	10mm	4	136100	680.5	24.25	25.00	1.189			-0.01	0.432	0.513	-0.36
61	2nd	FR1 n71_Ant 0	20M_BPSK_1_1	Left Edge	10mm	4	136100	680.5	24.25	25.00	1.189			-0.03	0.397	0.472	
	1st	FR1 n71_Ant 1	20M_BPSK_1_1	Back	10mm	4	136100	680.5	24.17	25.00	1.211			-0.01	0.251	0.304	-0.17
	2nd	FR1 n71_Ant 1	20M_BPSK_1_1	Back	10mm	4	136100	680.5	24.11	25.00	1.227			0.02	0.238	0.292	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Bottom Edge	10mm	4	656000	3840	19.42	19.50	1.019			-0.01	0.499	0.508	-0.38
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Bottom Edge	10mm	4	656000	3840	19.48	19.50	1.005			0.01	0.463	0.465	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Left Edge	10mm	4	633332	3499.98	19.36	19.50	1.033			-0.01	0.676	0.698	-0.74
62	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Left Edge	10mm	4	633332	3499.98	19.44	19.50	1.014			-0.03	0.580	0.588	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Right Edge	10mm	4	656000	3840	18.82	19.10	1.067			-0.05	0.501	0.534	-0.11
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Right Edge	10mm	4	656000	3840	18.90	19.10	1.047			-0.01	0.498	0.521	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Right Edge	10mm	4	633332	3499.98	18.72	19.10	1.091			-0.07	0.536	0.585	-0.49
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Right Edge	10mm	4	633332	3499.98	18.81	19.10	1.069			0.01	0.488	0.522	
	1st	FR1 n77_Ant 1	100M_BPSK_1_1	Left Edge	10mm	4	656000	3840	15.96	17.10	1.300			-0.19	0.328	0.426	-0.20
	2nd	FR1 n77_Ant 1	100M_BPSK_1_1	Left Edge	10mm	4	656000	3840	16.11	17.10	1.256			-0.13	0.324	0.407	
	1st	FR1 n77_Ant 1	100M_BPSK_1_1	Left Edge	10mm	4	633332	3499.98	16.07	17.10	1.268			0.14	0.137	0.174	-0.36
	2nd	FR1 n77_Ant 1	100M_BPSK_1_1	Left Edge	10mm	4	633332	3499.98	16.20	17.10	1.230			0.06	0.130	0.160	
	1st	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	4	656000	3840	23.05	24.00	1.245			-0.06	0.356	0.443	-0.95
	2nd	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	4	656000	3840	23.65	24.00	1.084			-0.04	0.328	0.356	
	1st	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	4	633332	3499.98	23.19	24.00	1.205			-0.02	0.363	0.437	-0.76
	2nd	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	4	633332	3499.98	23.77	24.00	1.054			0	0.348	0.367	



Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (dB)
63	1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	7	11	2462	16.81	18.00	1.315	100	1.000	-0.04	0.239	0.314	-0.01
	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	7	11	2462	16.81	18.00	1.315	100	1.000	-0.07	0.238	0.313	
	1st	WLAN2.4GHz	802.11b 1Mbps	Left Edge	10mm	Ant 3	7	1	2412	16.99	18.00	1.262	100	1.000	0	0.202	0.255	-0.07
	2nd	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	7	1	2412	16.99	18.00	1.262	100	1.000	-0.02	0.199	0.251	
	1st	WLAN2.4GHz	802.11g 6Mbps	Left Edge	10mm	Ant 4+3(4)	7	6	2437	16.19	18.00	1.517	99.51	1.005	0.02	0.001	0.002	-0.40
		WLAN2.4GHz	802.11g 6Mbps	Left Edge	10mm	Ant 4+3(3)	7	6	2437	16.38	18.00	1.452	99.51	1.005	0.02	0.227	0.331	
	2nd	WLAN2.4GHz	802.11g 6Mbps	Left Edge	10mm	Ant 4+3(4)	7	6	2437	16.29	18.00	1.483	99.51	1.005	0	0.001	0.001	
		WLAN2.4GHz	802.11g 6Mbps	Left Edge	10mm	Ant 4+3(3)	7	6	2437	16.38	18.00	1.452	99.51	1.005	0	0.207	0.302	
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	8	6	2437	14.61	16.50	1.545	100	1.000	-0.04	0.095	0.147	-0.34
	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	8	6	2437	14.61	16.50	1.545	100	1.000	-0.05	0.088	0.136	
	1st	WLAN2.4GHz	802.11b 1Mbps	Left Edge	10mm	Ant 3	8	6	2437	14.64	16.50	1.535	100	1.000	-0.05	0.123	0.189	-0.14
	2nd	WLAN2.4GHz	802.11b 1Mbps	Left Edge	10mm	Ant 3	8	6	2437	14.64	16.50	1.535	100	1.000	0.02	0.119	0.183	
	1st	WLAN2.4GHz	802.11g 6Mbps	Left Edge	10mm	Ant 4+3(4)	8	6	2437	16.19	16.50	1.074	99.51	1.005	0.02	0.001	0.001	-0.41
		WLAN2.4GHz	802.11g 6Mbps	Left Edge	10mm	Ant 4+3(3)	8	6	2437	16.38	16.50	1.028	99.51	1.005	0.02	0.227	0.235	
	2nd	WLAN2.4GHz	802.11g 6Mbps	Left Edge	10mm	Ant 4+3(4)	8	6	2437	16.29	16.50	1.050	99.51	1.005	0	0.001	0.001	
		WLAN2.4GHz	802.11g 6Mbps	Left Edge	10mm	Ant 4+3(3)	8	6	2437	16.38	16.50	1.028	99.51	1.005	0	0.207	0.214	
64	1st	WLAN5GHz	802.11a 6Mbps	Left Edge	10mm	Ant 4+3(4)	7	44	5220	18.00	18.00	1.000	99.51	1.005	-0.01	0.001	0.001	-0.79
		WLAN5GHz	802.11a 6Mbps	Left Edge	10mm	Ant 4+3(3)	7	44	5220	16.61	18.00	1.377	99.51	1.005	-0.01	0.287	0.397	
	2nd	WLAN5GHz	802.11a 6Mbps	Left Edge	10mm	Ant 4+3(4)	7	44	5220	18.00	18.00	1.000	99.51	1.005	-0.13	0.001	0.001	
		WLAN5GHz	802.11a 6Mbps	Left Edge	10mm	Ant 4+3(3)	7	44	5220	16.61	18.00	1.377	99.51	1.005	-0.13	0.239	0.331	
	1st	WLAN5GHz	802.11a 6Mbps	Left Edge	10mm	Ant 4+3(4)	8	44	5220	16.74	17.00	1.062	99.51	1.005	-0.02	0.001	0.001	-0.38
		WLAN5GHz	802.11a 6Mbps	Left Edge	10mm	Ant 4+3(3)	8	44	5220	16.32	17.00	1.169	99.51	1.005	-0.02	0.236	0.277	
	2nd	WLAN5GHz	802.11a 6Mbps	Left Edge	10mm	Ant 4+3(4)	8	44	5220	16.74	17.00	1.062	99.51	1.005	-0.11	0.001	0.001	
		WLAN5GHz	802.11a 6Mbps	Left Edge	10mm	Ant 4+3(3)	8	44	5220	16.32	17.00	1.169	99.51	1.005	-0.11	0.216	0.254	
65	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	155	5775	15.41	17.00	1.442	97.87	1.022	-0.18	0.082	0.121	-0.96
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	155	5775	15.17	17.00	1.524	97.87	1.022	-0.18	0.242	0.377	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	155	5775	15.41	17.00	1.442	97.87	1.022	-0.05	0.059	0.087	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	155	5775	15.17	17.00	1.524	97.87	1.022	-0.05	0.194	0.302	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8	155	5775	15.41	15.50	1.021	97.87	1.022	-0.18	0.082	0.086	-0.96
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8	155	5775	15.17	15.50	1.079	97.87	1.022	-0.18	0.242	0.267	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8	155	5775	15.41	15.50	1.021	97.87	1.022	-0.05	0.059	0.062	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8	155	5775	15.17	15.50	1.079	97.87	1.022	-0.05	0.194	0.214	

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (dB)
66	1st	Bluetooth	1Mbps	Back	10mm	Ant 4	2	39	2441	20.00	20.50	1.123	77.07	1.081	-0.14	0.254	0.308	-0.70
	2nd	Bluetooth	1Mbps	Back	10mm	Ant 4	2	39	2441	20.00	20.50	1.123	77.07	1.081	-0.04	0.216	0.262	
	1st	Bluetooth	1Mbps	Left Edge	10mm	Ant 3	2	39	2441	18.99	19.00	1.002	76.96	1.082	-0.06	0.295	0.320	-0.21
	2nd	Bluetooth	1Mbps	Left Edge	10mm	Ant 3	2	39	2441	18.99	19.00	1.002	76.96	1.082	-0.11	0.281	0.305	

**13.3 Body-Worn SAR**

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (dB)
67	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	189	836.4	28.40	29.80	1.380			0.02	0.651	0.899	-0.35
	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	189	836.4	28.02	29.80	1.507			-0.01	0.550	0.829	
	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	189	836.4	28.40	29.10	1.175			0.02	0.651	0.765	-0.35
	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	189	836.4	28.02	29.10	1.282			-0.01	0.550	0.705	
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	5	189	836.4	27.14	28.80	1.466			-0.03	0.177	0.259	-1.25
	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	5	189	836.4	26.88	28.80	1.556			0.17	0.125	0.194	
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	6	189	836.4	27.14	28.10	1.247			-0.03	0.177	0.221	-1.24
	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	6	189	836.4	26.88	28.10	1.324			0.17	0.125	0.166	
	1st	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	5	661	1880	26.56	27.40	1.213			-0.05	0.472	0.573	-0.06
	2nd	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	5	661	1880	26.44	27.40	1.247			-0.03	0.453	0.565	
	1st	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	6	661	1880	26.56	27.00	1.107			-0.05	0.472	0.522	-0.06
	2nd	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	6	661	1880	26.44	27.00	1.138			-0.03	0.453	0.515	
	1st	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	810	1909.8	21.66	23.40	1.493			0.01	0.645	0.963	-0.06
	2nd	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	810	1909.8	21.60	23.40	1.514			0.01	0.627	0.949	
	1st	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	810	1909.8	21.66	22.70	1.271			0.01	0.645	0.820	-0.06
	2nd	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	810	1909.8	21.60	22.70	1.288			0.01	0.627	0.808	
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	5	9400	1880	22.25	23.80	1.429			0.01	0.423	0.604	-0.35
	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	5	9400	1880	22.51	23.80	1.346			0.01	0.414	0.557	
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	6	9400	1880	22.25	23.10	1.216			0.01	0.423	0.514	-0.35
	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	6	9400	1880	22.51	23.10	1.146			0.01	0.414	0.474	
	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	5	9538	1907.6	18.89	20.60	1.483			0	0.586	0.869	-0.23
	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	5	9538	1907.6	18.86	20.60	1.493			0	0.552	0.824	
	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	6	9400	1880	19.03	19.90	1.222			0	0.596	0.728	-0.26
	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	6	9400	1880	19.04	19.90	1.219			0	0.563	0.686	
	1st	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	5	1413	1732.6	21.47	23.20	1.489			-0.01	0.327	0.487	-0.34
	2nd	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	5	1413	1732.6	21.40	23.20	1.514			-0.01	0.297	0.450	
	1st	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	6	1413	1732.6	21.47	22.50	1.268			-0.01	0.327	0.415	-0.35
	2nd	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	6	1413	1732.6	21.40	22.50	1.288			-0.01	0.297	0.383	
	1st	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	5	1413	1732.6	19.66	21.20	1.426			-0.01	0.540	0.770	-0.26
	2nd	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	5	1413	1732.6	19.68	21.20	1.419			0	0.511	0.725	
	1st	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	6	1413	1732.6	19.66	20.50	1.213			-0.01	0.540	0.655	-0.26
	2nd	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	6	1413	1732.6	19.68	20.50	1.208			0	0.511	0.617	
	1st	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	24.49	25.50	1.262			-0.03	0.603	0.761	-0.22
	2nd	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	24.43	25.50	1.262			-0.01	0.574	0.724	
	1st	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	24.45	25.50	1.274			-0.02	0.292	0.372	-0.92
	2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	24.15	25.50	1.274			0.05	0.236	0.301	
	1st	LTE Band 7_Ant 2	20M_QPSK_1_0	Back	10mm	5	21100	2535	20.16	21.60	1.393			0.01	0.329	0.458	-0.50
	2nd	LTE Band 7_Ant 2	20M_QPSK_1_0	Back	10mm	5	21100	2535	20.26	21.60	1.361			-0.02	0.300	0.408	
	1st	LTE Band 7_Ant 2	20M_QPSK_1_0	Back	10mm	6	21100	2535	20.16	20.90	1.186			0.01	0.329	0.390	-0.49
	2nd	LTE Band 7_Ant 2	20M_QPSK_1_0	Back	10mm	6	21100	2535	20.26	20.90	1.159			-0.02	0.300	0.348	
	1st	LTE Band 7_Ant 0	20M_QPSK_1_0	Back	10mm	5	21350	2560	20.22	22.00	1.507			0.03	0.603	0.908	-0.59
	2nd	LTE Band 7_Ant 0	20M_QPSK_1_0	Back	10mm	5	21350	2560	20.57	22.00	1.390			-0.02	0.570	0.792	
	1st	LTE Band 7_Ant 0	20M_QPSK_1_0	Back	10mm	6	21100	2535	20.28	21.30	1.265			0.08	0.585	0.740	-0.41
	2nd	LTE Band 7_Ant 0	20M_QPSK_1_0	Back	10mm	6	21100	2535	20.54	21.30	1.191			0.01	0.565	0.673	
	1st	LTE Band 12_Ant 0	10M_QPSK_1_0	Front	10mm	5/6	23095	707.5	24.36	25.00	1.159			0.01	0.356	0.413	-0.69
	2nd	LTE Band 12_Ant 0	10M_QPSK_1_0	Front	10mm	5/6	23095	707.5	24.44	25.00	1.138			0.03	0.309	0.352	
	1st	LTE Band 12_Ant 1	10M_QPSK_1_0	Back	10mm	5/6	23095	707.5	24.05	25.00	1.245			0	0.219	0.273	-0.84
	2nd	LTE Band 12_Ant 1	10M_QPSK_1_0	Back	10mm	5/6	23095	707.5	24.06	25.00	1.242			0.01	0.181	0.225	
	1st	LTE Band 13_Ant 0	10M_QPSK_1_0	Front	10mm	5/6	23230	782	24.14	25.00	1.219			-0.01	0.321	0.391	-0.03
	2nd	LTE Band 13_Ant 0	10M_QPSK_1_0	Front	10mm	5/6	23230	782	24.15	25.00	1.216			0	0.319	0.388	
	1st	LTE Band 13_Ant 1	10M_QPSK_1_0	Front	10mm	5/6	23230	782	23.96	25.00	1.271			0	0.244	0.310	-0.10
	2nd	LTE Band 13_Ant 1	10M_QPSK_1_0	Front	10mm	5/6	23230	782	23.97	25.00	1.268			0	0.239	0.303	



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

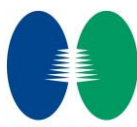
75	1st	LTE Band 14_Ant 0	10M_QPSK_1_0	Back	10mm	5/6	23330	793	24.04	25.00	1.247			0	0.356	0.444	-0.58
	2nd	LTE Band 14_Ant 0	10M_QPSK_1_0	Back	10mm	5/6	23330	793	24.02	25.00	1.253			-0.01	0.315	0.395	
	1st	LTE Band 14_Ant 1	10M_QPSK_1_0	Front	10mm	5/6	23330	793	23.85	25.00	1.303			0	0.233	0.304	-0.45
	2nd	LTE Band 14_Ant 1	10M_QPSK_1_0	Front	10mm	5/6	23330	793	23.86	25.00	1.300			-0.01	0.211	0.274	
	1st	LTE Band 25_Ant 2	20M_QPSK_1_0	Back	10mm	5	26340	1880	20.11	21.80	1.476			0.02	0.269	0.397	-0.38
	2nd	LTE Band 25_Ant 2	20M_QPSK_1_0	Back	10mm	5	26340	1880	20.41	21.80	1.377			-0.04	0.264	0.364	
	1st	LTE Band 25_Ant 2	20M_QPSK_1_0	Back	10mm	6	26340	1880	20.11	21.10	1.256			0.02	0.269	0.338	-0.39
	2nd	LTE Band 25_Ant 2	20M_QPSK_1_0	Back	10mm	6	26340	1880	20.41	21.10	1.172			-0.04	0.264	0.309	
76	1st	LTE Band 25_Ant 0	20M_QPSK_1_0	Back	10mm	5	26590	1905	18.44	20.20	1.500			-0.07	0.657	0.985	-0.36
	2nd	LTE Band 25_Ant 0	20M_QPSK_1_0	Back	10mm	5	26590	1905	18.51	20.20	1.476			0.07	0.614	0.906	
	1st	LTE Band 25_Ant 0	20M_QPSK_1_0	Back	10mm	6	26590	1905	18.44	19.50	1.276			-0.07	0.657	0.839	-0.37
	2nd	LTE Band 25_Ant 0	20M_QPSK_1_0	Back	10mm	6	26590	1905	18.51	19.50	1.256			0.07	0.614	0.771	
	1st	LTE Band 25_Ant 1	20M_QPSK_50_0	Back	10mm	5	26340	1880	21.44	22.50	1.276			0.1	0.309	0.394	-0.32
	2nd	LTE Band 25_Ant 1	20M_QPSK_50_0	Back	10mm	5	26340	1880	21.56	22.50	1.242			-0.02	0.295	0.366	
	1st	LTE Band 25_Ant 1	20M_QPSK_50_0	Back	10mm	6	26340	1880	21.44	21.80	1.086			0.1	0.309	0.336	-0.32
	2nd	LTE Band 25_Ant 1	20M_QPSK_50_0	Back	10mm	6	26340	1880	21.56	21.80	1.057			-0.02	0.295	0.312	
	1st	LTE Band 25_Ant 5	20M_QPSK_50_0	Back	10mm	5	26340	1880	21.50	23.20	1.479			0	0.352	0.521	-1.58
	2nd	LTE Band 25_Ant 5	20M_QPSK_50_0	Back	10mm	5	26340	1880	21.58	23.20	1.452			0.04	0.249	0.362	
	1st	LTE Band 25_Ant 5	20M_QPSK_50_0	Back	10mm	6	26340	1880	21.50	22.50	1.259			0	0.352	0.443	-1.58
	2nd	LTE Band 25_Ant 5	20M_QPSK_50_0	Back	10mm	6	26340	1880	21.58	22.50	1.236			0.04	0.249	0.308	
77	1st	LTE Band 26_Ant 0	15M_QPSK_1_0	Back	10mm	5/6	26865	831.5	24.03	25.00	1.250			0.01	0.485	0.606	-0.12
	2nd	LTE Band 26_Ant 0	15M_QPSK_1_0	Back	10mm	5/6	26865	831.5	23.93	25.00	1.279			-0.04	0.460	0.589	
	1st	LTE Band 26_Ant 1	15M_QPSK_1_0	Back	10mm	5/6	26865	831.5	23.73	25.00	1.340			0.01	0.203	0.272	-0.58
	2nd	LTE Band 26_Ant 1	15M_QPSK_1_0	Back	10mm	5/6	26865	831.5	23.66	25.00	1.361			-0.01	0.175	0.238	
	1st	LTE Band 30_Ant 2	10M_QPSK_1_0	Back	10mm	5	27710	2310	19.58	21.20	1.452			-0.06	0.303	0.440	-0.10
	2nd	LTE Band 30_Ant 2	10M_QPSK_1_0	Back	10mm	5	27710	2310	19.67	21.20	1.422			0.01	0.302	0.430	
	1st	LTE Band 30_Ant 2	10M_QPSK_1_0	Back	10mm	6	27710	2310	19.58	20.50	1.236			-0.06	0.303	0.374	-0.09
	2nd	LTE Band 30_Ant 2	10M_QPSK_1_0	Back	10mm	6	27710	2310	19.67	20.50	1.211			0.01	0.302	0.366	
	1st	LTE Band 30_Ant 0	10M_QPSK_1_0	Back	10mm	5	27710	2310	19.38	21.20	1.521			-0.14	0.498	0.757	-0.43
	2nd	LTE Band 30_Ant 0	10M_QPSK_1_0	Back	10mm	5	27710	2310	19.52	21.20	1.472			-0.08	0.466	0.686	
	1st	LTE Band 30_Ant 0	10M_QPSK_1_0	Back	10mm	6	27710	2310	19.38	20.50	1.294			-0.14	0.498	0.645	-0.43
	2nd	LTE Band 30_Ant 0	10M_QPSK_1_0	Back	10mm	6	27710	2310	19.52	20.50	1.253			-0.08	0.466	0.584	
79	1st	LTE Band 38_Ant 2	20M_QPSK_1_0	Back	10mm	5	38000	2595	21.60	22.70	1.288	62.9	1.006	-0.02	0.330	0.428	-0.91
	2nd	LTE Band 38_Ant 2	20M_QPSK_1_0	Back	10mm	5	38000	2595	21.70	22.70	1.259	62.9	1.006	0	0.274	0.347	
	1st	LTE Band 38_Ant 2	20M_QPSK_1_0	Back	10mm	6	38000	2595	21.60	22.00	1.096	62.9	1.006	-0.02	0.330	0.364	-0.91
	2nd	LTE Band 38_Ant 2	20M_QPSK_1_0	Back	10mm	6	38000	2595	21.70	22.00	1.072	62.9	1.006	0	0.274	0.295	
	1st	LTE Band 41_Ant 2	20M_QPSK_50_0	Back	10mm	5	40620	2593	21.56	22.70	1.300	62.9	1.006	-0.01	0.353	0.462	-0.47
	2nd	LTE Band 41_Ant 2	20M_QPSK_50_0	Back	10mm	5	40620	2593	21.99	22.70	1.178	62.9	1.006	0	0.350	0.415	
	1st	LTE Band 41_Ant 2	20M_QPSK_50_0	Back	10mm	6	40620	2593	21.56	22.00	1.107	62.9	1.006	-0.01	0.353	0.393	-0.47
	2nd	LTE Band 41_Ant 2	20M_QPSK_50_0	Back	10mm	6	40620	2593	21.99	22.00	1.002	62.9	1.006	0	0.350	0.353	
80	1st	LTE Band 41_Ant 0	20M_QPSK_1_0	Back	10mm	5	40185	2549.5	22.49	24.10	1.449	62.9	1.006	-0.04	0.668	0.974	-0.14
	2nd	LTE Band 41_Ant 0	20M_QPSK_1_0	Back	10mm	5	40185	2549.5	22.61	24.10	1.409	62.9	1.006	0.01	0.665	0.943	
	1st	LTE Band 41_Ant 0	20M_QPSK_1_0	Back	10mm	6	40185	2549.5	22.49	23.40	1.233	62.9	1.006	-0.04	0.668	0.829	-0.14
	2nd	LTE Band 41_Ant 0	20M_QPSK_1_0	Back	10mm	6	40185	2549.5	22.61	23.40	1.199	62.9	1.006	0.01	0.665	0.802	
81	1st	LTE Band 48_Ant 6	20M_QPSK_50_0	Back	10mm	5/6	55830	3609	19.71	21.00	1.346	62.9	1.006	-0.12	0.238	0.322	-0.59
	2nd	LTE Band 48_Ant 6	20M_QPSK_50_0	Back	10mm	5/6	55830	3609	19.97	21.00	1.268	62.9	1.006	-0.08	0.220	0.281	
	1st	LTE Band 48_Ant 7	20M_QPSK_1_0	Back	10mm	5	55830	3609	20.51	22.00	1.409	62.9	1.006	-0.03	0.218	0.309	-0.94
	2nd	LTE Band 48_Ant 7	20M_QPSK_1_0	Back	10mm	5	55830	3609	20.62	22.00	1.374	62.9	1.006	-0.16	0.180	0.249	
	1st	LTE Band 48_Ant 7	20M_QPSK_1_0	Back	10mm	6	55830	3609	20.51	21.30	1.199	62.9	1.006	-0.03	0.218	0.263	-0.94
	2nd	LTE Band 48_Ant 7	20M_QPSK_1_0	Back	10mm	6	55830	3609	20.62	21.30	1.169	62.9	1.006	-0.16	0.180	0.212	
	1st	LTE Band 66_Ant 2	20M_QPSK_1_0	Back	10mm	5	132322	1745	21.66	23.00	1.361			0.01	0.434	0.591	-0.01
	2nd	LTE Band 66_Ant 2	20M_QPSK_1_0	Back	10mm	5	132322	1745	21.59	23.00	1.384			0.02	0.426	0.589	
	1st	LTE Band 66_Ant 2	20M_QPSK_1_0	Back	10mm	6	132322	1745	21.66	22.30	1.159			0.01	0.434	0.503	-0.01
	2nd	LTE Band 66_Ant 2	20M_QPSK_1_0	Back	10mm	6	132322	1745	21.59	22.30	1.178			0.02	0.426	0.502	
	1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Back	10mm	5	132322	1745	18.96	20.70	1.493			-0.09	0.475	0.709	-0.03
	2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Back	10mm	5	132322	1745	18.83	20.70	1.538			-0.19	0.458	0.704	



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

	1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Back	10mm	6	132322	1745	18.96	20.00	1.271			-0.09	0.475	0.604	-0.03
	2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Back	10mm	6	132322	1745	18.83	20.00	1.309			-0.19	0.458	0.600	
	1st	LTE Band 66_Ant 1	20M_QPSK_50_0	Back	10mm	5	132322	1745	20.56	22.20	1.459			0	0.559	0.815	-0.27
82	2nd	LTE Band 66_Ant 1	20M_QPSK_50_0	Back	10mm	5	132322	1745	20.50	22.20	1.479			-0.01	0.517	0.765	
	1st	LTE Band 66_Ant 1	20M_QPSK_50_0	Back	10mm	6	132322	1745	20.56	21.50	1.242			0	0.559	0.694	-0.28
	2nd	LTE Band 66_Ant 1	20M_QPSK_50_0	Back	10mm	6	132322	1745	20.50	21.50	1.259			-0.01	0.517	0.651	
	1st	LTE Band 66_Ant 5	20M_QPSK_50_0	Back	10mm	5	132322	1745	22.52	23.60	1.282			-0.12	0.378	0.485	-0.16
	2nd	LTE Band 66_Ant 5	20M_QPSK_50_0	Back	10mm	5	132322	1745	22.62	23.60	1.253			-0.03	0.373	0.467	
	1st	LTE Band 66_Ant 5	20M_QPSK_50_0	Back	10mm	6	132322	1745	22.52	23.30	1.197			-0.12	0.378	0.452	-0.16
	2nd	LTE Band 66_Ant 5	20M_QPSK_50_0	Back	10mm	6	132322	1745	22.62	23.30	1.169			-0.03	0.373	0.436	
	1st	LTE Band 71_Ant 0	20M_QPSK_1_0	Back	10mm	5/6	133297	680.5	24.55	25.00	1.109			0	0.293	0.325	-0.47
83	2nd	LTE Band 71_Ant 0	20M_QPSK_1_0	Back	10mm	5/6	133297	680.5	24.59	25.00	1.099			-0.02	0.266	0.292	
	1st	LTE Band 71_Ant 1	20M_QPSK_1_0	Back	10mm	5/6	133297	680.5	24.05	25.00	1.245			-0.01	0.255	0.317	-0.37
	2nd	LTE Band 71_Ant 1	20M_QPSK_1_0	Back	10mm	5/6	133297	680.5	24.09	25.00	1.233			0.01	0.236	0.291	
	1st	FR1 n7_Ant 2	50M_BPSK_135_68	Front	10mm	5	507000	2535	21.25	22.80	1.429			0	0.492	0.703	-1.10
	2nd	FR1 n7_Ant 2	50M_BPSK_135_68	Front	10mm	5	507000	2535	21.49	22.80	1.352			-0.04	0.404	0.546	
	1st	FR1 n7_Ant 2	50M_BPSK_135_68	Front	10mm	6	507000	2535	21.25	22.10	1.216			0	0.492	0.598	-1.09
	2nd	FR1 n7_Ant 2	50M_BPSK_135_68	Front	10mm	6	507000	2535	21.49	22.10	1.151			-0.04	0.404	0.465	
	1st	FR1 n7_Ant 0	50M_BPSK_135_68	Back	10mm	5	507000	2535	19.80	21.60	1.514			0.01	0.654	0.990	-0.41
84	2nd	FR1 n7_Ant 0	50M_BPSK_135_68	Back	10mm	5	507000	2535	20.12	21.60	1.406			0.01	0.640	0.900	
	1st	FR1 n7_Ant 0	50M_BPSK_135_68	Back	10mm	6	507000	2535	19.80	20.90	1.288			0.01	0.654	0.843	-0.42
	2nd	FR1 n7_Ant 0	50M_BPSK_135_68	Back	10mm	6	507000	2535	20.12	20.90	1.197			0.01	0.640	0.766	
	1st	FR1 n12_Ant 0	15M_BPSK_36_22	Back	10mm	5/6	141500	707.5	24.20	25.00	1.202			0.01	0.299	0.359	-0.39
85	2nd	FR1 n12_Ant 0	15M_BPSK_36_22	Back	10mm	5/6	141500	707.5	24.50	25.00	1.122			0	0.292	0.328	
	1st	FR1 n12_Ant 1	15M_BPSK_1_1	Back	10mm	5/6	141500	707.5	24.13	25.00	1.222			0	0.215	0.263	-1.12
	2nd	FR1 n12_Ant 1	15M_BPSK_1_1	Back	10mm	5/6	141500	707.5	24.17	25.00	1.211			-0.06	0.168	0.203	
	1st	FR1 n14_Ant 0	10M_BPSK_1_1	Back	10mm	5/6	158600	793	23.93	25.00	1.279			0.01	0.312	0.399	-0.76
86	2nd	FR1 n14_Ant 0	10M_BPSK_1_1	Back	10mm	5/6	158600	793	24.01	25.00	1.256			-0.02	0.267	0.335	
	1st	FR1 n14_Ant 1	10M_BPSK_1_1	Back	10mm	5/6	158600	793	23.83	25.00	1.309			-0.04	0.244	0.319	-0.31
	2nd	FR1 n14_Ant 1	10M_BPSK_1_1	Back	10mm	5/6	158600	793	23.79	25.00	1.321			-0.01	0.225	0.297	
	1st	FR1 n25_Ant 2	40M_BPSK_1_1	Back	10mm	5	376500	1882.5	20.65	22.30	1.462			0.01	0.344	0.503	-0.34
	2nd	FR1 n25_Ant 2	40M_BPSK_1_1	Back	10mm	5	376500	1882.5	20.80	22.30	1.413			-0.01	0.329	0.465	
	1st	FR1 n25_Ant 2	40M_BPSK_1_1	Back	10mm	6	376500	1882.5	20.65	21.60	1.245			0.01	0.344	0.428	-0.34
	2nd	FR1 n25_Ant 2	40M_BPSK_1_1	Back	10mm	6	376500	1882.5	20.80	21.60	1.202			-0.01	0.329	0.396	
	1st	FR1 n25_Ant 0	40M_BPSK_108_54	Back	10mm	5	376500	1882.5	19.26	20.20	1.242			-0.19	0.790	0.981	-0.64
87	2nd	FR1 n25_Ant 0	40M_BPSK_108_54	Back	10mm	5	376500	1882.5	19.49	20.20	1.178			0.05	0.719	0.847	
	1st	FR1 n25_Ant 0	40M_BPSK_108_54	Back	10mm	6	376500	1882.5	19.26	19.50	1.057			-0.19	0.790	0.835	-0.64
	2nd	FR1 n25_Ant 0	40M_BPSK_108_54	Back	10mm	6	376500	1882.5	19.49	19.50	1.002			0.05	0.719	0.721	
	1st	FR1 n25_Ant 1	40M_BPSK_1_1	Back	10mm	5	376500	1882.5	19.97	21.20	1.327			0	0.746	0.990	-2.37
	2nd	FR1 n25_Ant 1	40M_BPSK_1_1	Back	10mm	5	376500	1882.5	20.03	21.20	1.309			0	0.438	0.573	
	1st	FR1 n25_Ant 1	40M_BPSK_1_1	Back	10mm	6	376500	1882.5	19.97	20.50	1.130			0	0.746	0.843	-2.37
	2nd	FR1 n25_Ant 1	40M_BPSK_1_1	Back	10mm	6	376500	1882.5	20.03	20.50	1.114			0	0.438	0.488	
	1st	FR1 n25_Ant 5	40M_BPSK_108_54	Back	10mm	5	376500	1882.5	21.08	22.50	1.387			0.03	0.404	0.560	-0.18
	2nd	FR1 n25_Ant 5	40M_BPSK_108_54	Back	10mm	5	376500	1882.5	21.23	22.50	1.340			-0.01	0.401	0.537	
	1st	FR1 n25_Ant 5	40M_BPSK_108_54	Back	10mm	6	376500	1882.5	21.08	21.80	1.180			0.03	0.404	0.477	-0.19
	2nd	FR1 n25_Ant 5	40M_BPSK_108_54	Back	10mm	6	376500	1882.5	21.23	21.80	1.140			-0.01	0.401	0.457	
	1st	FR1 n26_Ant 0	20M_BPSK_50_28	Back	10mm	5/6	166300	831.5	23.92	25.00	1.282			0	0.502	0.644	-0.40
88	2nd	FR1 n26_Ant 0	20M_BPSK_50_28	Back	10mm	5/6	166300	831.5	23.96	25.00	1.271			-0.02	0.463	0.588	
	1st	FR1 n26_Ant 1	20M_BPSK_1_1	Back	10mm	5/6	166300	831.5	23.69	25.00	1.352			0.01	0.248	0.335	-1.54
	2nd	FR1 n26_Ant 1	20M_BPSK_1_1	Back	10mm	5/6	166300	831.5	23.80	25.00	1.318			-0.01	0.178	0.235	
	1st	FR1 n30_Ant 2	10M_BPSK_25_14	Back	10mm	5	462000	2310	20.48	21.20	1.180			-0.03	0.363	0.428	-0.06
	2nd	FR1 n30_Ant 2	10M_BPSK_25_14	Back	10mm	5	462000	2310	20.50	21.20	1.175			0	0.359	0.422	
	1st	FR1 n30_Ant 2	10M_BPSK_25_14	Back	10mm	6	462000	2310	20.48	20.50	1.005			-0.03	0.363	0.365	-0.07
	2nd	FR1 n30_Ant 2	10M_BPSK_25_14	Back	10mm	6	462000	2310	20.50	20.50	1.000			0	0.359	0.359	
	1st	FR1 n30_Ant 0	10M_BPSK_25_14	Back	10mm	5	462000	2310	20.42	21.50	1.282			-0.08	0.592	0.759	-0.40
89	2nd	FR1 n30_Ant 0	10M_BPSK_25_14	Back	10mm	5	462000	2310	20.78	21.50	1.180			-0.19	0.587	0.693	



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

	1st	FR1 n30_Ant 0	10M_BPSK_25_14	Back	10mm	6	462000	2310	20.42	21.40	1.253		-0.08	0.592	0.742	-0.40
	2nd	FR1 n30_Ant 0	10M_BPSK_25_14	Back	10mm	6	462000	2310	20.78	21.40	1.153		-0.19	0.587	0.677	
90	1st	FR1 n38_Ant 2	40M_BPSK_1_1	Back	10mm	5	519000	2595	20.87	22.50	1.455		0	0.471	0.686	-0.36
	2nd	FR1 n38_Ant 2	40M_BPSK_1_1	Back	10mm	5	519000	2595	21.01	22.50	1.409		0.01	0.448	0.631	
	1st	FR1 n38_Ant 2	40M_BPSK_1_1	Back	10mm	6	519000	2595	20.87	21.80	1.239		0	0.471	0.583	-0.36
	2nd	FR1 n38_Ant 2	40M_BPSK_1_1	Back	10mm	6	519000	2595	21.01	21.80	1.199		0.01	0.448	0.537	
	1st	FR1 n41_Ant 2	100M_BPSK_1_1	Back	10mm	5	518598	2592.99	21.03	22.50	1.403		-0.01	0.475	0.666	-0.28
	2nd	FR1 n41_Ant 2	100M_BPSK_1_1	Back	10mm	5	518598	2592.99	21.08	22.50	1.387		0	0.451	0.625	
	1st	FR1 n41_Ant 2	100M_BPSK_1_1	Back	10mm	6	518598	2592.99	21.03	21.80	1.194		-0.01	0.475	0.567	-0.28
	2nd	FR1 n41_Ant 2	100M_BPSK_1_1	Back	10mm	6	518598	2592.99	21.08	21.80	1.180		0	0.451	0.532	
	1st	FR1 n41_Ant 0	100M_BPSK_1_1	Back	10mm	5	518598	2592.99	21.01	22.30	1.346		0.01	0.722	0.972	-0.25
	2nd	FR1 n41_Ant 0	100M_BPSK_1_1	Back	10mm	5	518598	2592.99	21.02	22.30	1.343		-0.01	0.683	0.917	
91	1st	FR1 n41_Ant 0	100M_BPSK_1_1	Back	10mm	6	518598	2592.99	21.01	21.60	1.146		0.01	0.722	0.827	-0.25
	2nd	FR1 n41_Ant 0	100M_BPSK_1_1	Back	10mm	6	518598	2592.99	21.02	21.60	1.143		-0.01	0.683	0.781	
	1st	FR1 n41_Ant 1	100M_BPSK_135_69	Back	10mm	5	518598	2592.99	21.91	22.90	1.256		0.01	0.594	0.746	-0.45
	2nd	FR1 n41_Ant 1	100M_BPSK_135_69	Back	10mm	5	518598	2592.99	22.15	22.90	1.189		0.08	0.565	0.672	
	1st	FR1 n41_Ant 1	100M_BPSK_135_69	Back	10mm	6	518598	2592.99	21.91	22.20	1.069		0.01	0.594	0.635	-0.45
	2nd	FR1 n41_Ant 1	100M_BPSK_135_69	Back	10mm	6	518598	2592.99	22.15	22.20	1.012		0.08	0.565	0.572	
	1st	FR1 n41_Ant 5	100M_BPSK_135_69	Back	10mm	5	518598	2592.99	22.23	23.90	1.469		-0.04	0.578	0.849	-0.52
	2nd	FR1 n41_Ant 5	100M_BPSK_135_69	Back	10mm	5	518598	2592.99	22.53	23.90	1.371		-0.01	0.550	0.754	
	1st	FR1 n41_Ant 5	100M_BPSK_135_69	Back	10mm	6	518598	2592.99	22.23	23.20	1.250		-0.04	0.578	0.723	-0.52
	2nd	FR1 n41_Ant 5	100M_BPSK_135_69	Back	10mm	6	518598	2592.99	22.53	23.20	1.167		-0.01	0.550	0.642	
	1st	FR1 n66_Ant 2	40M_BPSK_1_1	Back	10mm	5	349000	1745	22.01	23.00	1.256		0	0.450	0.565	-0.08
	2nd	FR1 n66_Ant 2	40M_BPSK_1_1	Back	10mm	5	349000	1745	21.94	23.00	1.276		-0.05	0.435	0.555	
	1st	FR1 n66_Ant 2	40M_BPSK_1_1	Back	10mm	6	349000	1745	22.01	22.30	1.069		0	0.450	0.481	-0.07
	2nd	FR1 n66_Ant 2	40M_BPSK_1_1	Back	10mm	6	349000	1745	21.94	22.30	1.086		-0.05	0.435	0.473	
	1st	FR1 n66_Ant 0	40M_BPSK_1_1	Back	10mm	5	349000	1745	19.67	21.20	1.422		-0.19	0.586	0.833	-0.03
	2nd	FR1 n66_Ant 0	40M_BPSK_1_1	Back	10mm	5	349000	1745	19.69	21.20	1.416		-0.15	0.584	0.827	
	1st	FR1 n66_Ant 0	40M_BPSK_1_1	Back	10mm	6	349000	1745	19.67	20.50	1.211		-0.19	0.586	0.709	-0.03
	2nd	FR1 n66_Ant 0	40M_BPSK_1_1	Back	10mm	6	349000	1745	19.69	20.50	1.205		-0.15	0.584	0.704	
	1st	FR1 n66_Ant 1	40M_BPSK_108_54	Back	10mm	5	349000	1745	21.58	22.60	1.265		0.01	0.783	0.990	-0.13
	2nd	FR1 n66_Ant 1	40M_BPSK_108_54	Back	10mm	5	349000	1745	21.63	22.60	1.250		0	0.769	0.961	
92	1st	FR1 n66_Ant 1	40M_BPSK_108_54	Back	10mm	6	349000	1745	21.58	21.90	1.076		0.01	0.783	0.843	-0.13
	2nd	FR1 n66_Ant 1	40M_BPSK_108_54	Back	10mm	6	349000	1745	21.63	21.90	1.064		0	0.769	0.818	
	1st	FR1 n66_Ant 5	40M_BPSK_108_54	Back	10mm	5	349000	1745	21.53	23.20	1.469		0	0.392	0.576	-0.84
	2nd	FR1 n66_Ant 5	40M_BPSK_108_54	Back	10mm	5	349000	1745	21.66	23.20	1.426		0.03	0.333	0.475	
	1st	FR1 n66_Ant 5	40M_BPSK_108_54	Back	10mm	6	349000	1745	21.53	22.50	1.250		0	0.392	0.490	-0.84
	2nd	FR1 n66_Ant 5	40M_BPSK_108_54	Back	10mm	6	349000	1745	21.66	22.50	1.213		0.03	0.333	0.404	
	1st	FR1 n71_Ant 0	20M_BPSK_50_28	Back	10mm	5/6	136100	680.5	24.13	25.00	1.222		0.01	0.269	0.329	-0.46
	2nd	FR1 n71_Ant 0	20M_BPSK_50_28	Back	10mm	5/6	136100	680.5	24.26	25.00	1.186		0.01	0.250	0.296	
93	1st	FR1 n71_Ant 1	20M_BPSK_1_1	Back	10mm	5/6	136100	680.5	24.17	25.00	1.211		-0.01	0.251	0.304	-0.17
	2nd	FR1 n71_Ant 1	20M_BPSK_1_1	Back	10mm	5/6	136100	680.5	24.11	25.00	1.227		0.02	0.238	0.292	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Back	10mm	5	656000	3840	19.42	20.40	1.253		-0.17	0.259	0.325	-0.79
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Back	10mm	5	656000	3840	19.48	20.40	1.236		0.07	0.219	0.271	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Back	10mm	6	656000	3840	19.42	19.70	1.067		-0.17	0.259	0.276	-0.79
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Back	10mm	6	656000	3840	19.48	19.70	1.052		0.07	0.219	0.230	
	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Back	10mm	5	633332	3499.98	19.36	20.40	1.271		0.04	0.451	0.573	-0.17
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Back	10mm	5	633332	3499.98	19.44	20.40	1.247		0.02	0.442	0.551	
94	1st	FR1 n77_Ant 6	100M_BPSK_1_1	Back	10mm	6	633332	3499.98	19.36	19.70	1.081		0.04	0.451	0.488	-0.17
	2nd	FR1 n77_Ant 6	100M_BPSK_1_1	Back	10mm	6	633332	3499.98	19.44	19.70	1.062		0.02	0.442	0.469	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Back	10mm	5	656000	3840	18.82	19.80	1.253		-0.08	0.296	0.371	-0.35
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Back	10mm	5	656000	3840	18.90	19.80	1.230		0.02	0.278	0.342	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Back	10mm	6	656000	3840	18.82	19.10	1.067		-0.08	0.296	0.316	-0.36
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Back	10mm	6	656000	3840	18.90	19.10	1.047		0.02	0.278	0.291	
	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Back	10mm	5	633332	3499.98	18.72	19.80	1.282		-0.1	0.356	0.457	-0.85
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Back	10mm	5	633332	3499.98	18.81	19.80	1.256		-0.04	0.299	0.376	



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

	1st	FR1 n77_Ant 7	100M_BPSK_1_1	Back	10mm	6	633332	3499.98	18.72	19.10	1.091			-0.1	0.356	0.389	-0.85
	2nd	FR1 n77_Ant 7	100M_BPSK_1_1	Back	10mm	6	633332	3499.98	18.81	19.10	1.069			-0.04	0.299	0.320	-0.85
	1st	FR1 n77_Ant 1	100M_BPSK_1_1	Back	10mm	5	656000	3840	19.08	20.00	1.236			-0.1	0.426	0.527	-0.15
	2nd	FR1 n77_Ant 1	100M_BPSK_1_1	Back	10mm	5	656000	3840	19.12	20.00	1.225			-0.19	0.416	0.509	-0.15
	1st	FR1 n77_Ant 1	100M_BPSK_1_1	Back	10mm	6	656000	3840	19.08	19.30	1.052			-0.1	0.426	0.448	-0.14
	2nd	FR1 n77_Ant 1	100M_BPSK_1_1	Back	10mm	6	656000	3840	19.12	19.30	1.042			-0.19	0.416	0.434	-0.14
	1st	FR1 n77_Ant 1	100M_BPSK_1_1	Back	10mm	5	633332	3499.98	19.13	20.00	1.222			-0.15	0.262	0.320	-1.09
	2nd	FR1 n77_Ant 1	100M_BPSK_1_1	Back	10mm	5	633332	3499.98	19.22	20.00	1.197			-0.11	0.208	0.249	-1.09
	1st	FR1 n77_Ant 1	100M_BPSK_1_1	Back	10mm	6	633332	3499.98	19.13	19.30	1.040			-0.15	0.262	0.272	-1.08
	2nd	FR1 n77_Ant 1	100M_BPSK_1_1	Back	10mm	6	633332	3499.98	19.22	19.30	1.019			-0.11	0.208	0.212	-1.08
	1st	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	5	656000	3840	23.05	24.50	1.396			-0.06	0.356	0.497	-0.95
	2nd	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	5	656000	3840	23.65	24.50	1.216			-0.04	0.328	0.399	-0.95
	1st	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	6	656000	3840	23.05	24.00	1.245			-0.06	0.356	0.443	-0.95
	2nd	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	6	656000	3840	23.65	24.00	1.084			-0.04	0.328	0.356	-0.95
	1st	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	5	633332	3499.98	23.19	24.50	1.352			-0.02	0.363	0.491	-0.76
	2nd	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	5	633332	3499.98	23.77	24.50	1.183			0	0.348	0.412	-0.76
	1st	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	6	633332	3499.98	23.19	24.00	1.205			-0.02	0.363	0.437	-0.76
	2nd	FR1 n77_Ant 5	100M_BPSK_1_1	Back	10mm	6	633332	3499.98	23.77	24.00	1.054			0	0.348	0.367	-0.76
	1st	NTN B23_Ant 1	15K_BPSK_1_10	Back	10mm	5	25501	2000.1	22.26	22.30	1.009	79	1.051	-0.08	0.810	0.859	-2.05
95	2nd	NTN B23_Ant 1	15K_BPSK_1_10	Back	10mm	5	25501	2000.1	22.26	22.30	1.009	79	1.051	-0.12	0.505	0.536	-2.05
	1st	NTN B255_Ant 4	15K_BPSK_1_10	Back	10mm	5	261505	1626.6	21.33	21.80	1.114	79	1.051	-0.18	0.457	0.535	-0.41
96	2nd	NTN B255_Ant 4	15K_BPSK_1_10	Back	10mm	5	261505	1626.6	21.31	21.80	1.119	79	1.051	-0.04	0.414	0.487	-0.41

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (dB)
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	5/6	6	2437	21.39	21.50	1.026	100	1.000	-0.01	0.350	0.359	-0.72
	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	5/6	6	2437	21.39	21.50	1.026	100	1.000	0.01	0.296	0.304	-0.72
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	6	2437	21.92	22.00	1.019	100	1.000	-0.01	0.451	0.459	-0.12
	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	6	2437	21.92	22.00	1.019	100	1.000	0.03	0.439	0.447	-0.12
	1st	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	5/6	6	2437	20.34	21.50	1.306	99.51	1.005	-0.02	0.394	0.517	-0.37
		WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	5/6	6	2437	21.07	21.50	1.104	99.51	1.005	-0.02	0.385	0.427	-0.37
97	2nd	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	5/6	6	2437	20.34	21.50	1.306	99.51	1.005	0	0.362	0.475	-0.37
		WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	5/6	6	2437	21.07	21.50	1.104	99.51	1.005	0	0.362	0.402	-0.37
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	7	11	2462	16.81	18.00	1.315	100	1.000	-0.04	0.239	0.314	-0.01
	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	7	11	2462	16.81	18.00	1.315	100	1.000	-0.07	0.238	0.313	-0.01
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	7	1	2412	16.99	18.00	1.262	100	1.000	0	0.131	0.165	-0.13
	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	7	1	2412	16.99	18.00	1.262	100	1.000	-0.03	0.127	0.160	-0.13
	1st	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	7	6	2437	16.29	18.00	1.483	99.51	1.005	-0.17	0.140	0.209	-0.06
		WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	7	6	2437	16.38	18.00	1.452	99.51	1.005	-0.17	0.115	0.168	-0.06
	2nd	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	7	6	2437	16.29	18.00	1.483	99.51	1.005	-0.03	0.138	0.206	-0.06
		WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	7	6	2437	16.38	18.00	1.452	99.51	1.005	-0.03	0.139	0.203	-0.06
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	8	6	2437	14.61	16.50	1.545	100	1.000	-0.04	0.095	0.147	-0.34
	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	8	6	2437	14.61	16.50	1.545	100	1.000	-0.05	0.088	0.136	-0.34
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	8	6	2437	14.64	16.50	1.535	100	1.000	-0.07	0.085	0.130	-0.24
	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	8	6	2437	14.64	16.50	1.535	100	1.000	-0.02	0.080	0.123	-0.24
	1st	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	8	6	2437	16.29	16.50	1.050	99.51	1.005	-0.17	0.140	0.148	-0.06
		WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	8	6	2437	16.38	16.50	1.028	99.51	1.005	-0.17	0.115	0.119	-0.06
	2nd	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	8	6	2437	16.29	16.50	1.050	99.51	1.005	-0.03	0.138	0.146	-0.06
		WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	8	6	2437	16.38	16.50	1.028	99.51	1.005	-0.03	0.139	0.144	-0.06
	1st	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3(4)	5/6/7	52	5260	18.48	19.00	1.127	99.51	1.005	-0.11	0.231	0.262	-0.27
		WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3(3)	5/6/7	52	5260	17.13	19.00	1.538	99.51	1.005	-0.11	0.245	0.379	-0.27
98	2nd	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3(4)	5/6/7	52	5260	18.48	19.00	1.127	99.51	1.005	0.01	0.215	0.244	-0.27
		WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3(3)	5/6/7	52	5260	17.13	19.00	1.538	99.51	1.005	0.01	0.230	0.356	-0.27
	1st	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3(4)	8	52	5260	17.72	18.00	1.067	99.51	1.005	-0.13	0.182	0.195	-1.97
		WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3(3)	8	52	5260	17.05	18.00	1.245	99.51	1.005	-0.13	0.237	0.296	-1.97



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

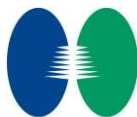
	2nd	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3(4)	8	52	5260	17.72	18.00	1.067	99.51	1.005	0.13	0.170	0.182	
		WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3(3)	8	52	5260	17.05	18.00	1.245	99.51	1.005	0.13	0.150	0.188	
	1st	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	5/6	142	5710	18.80	19.00	1.047	98.98	1.010	-0.03	0.141	0.149	-0.30
		WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	5/6	142	5710	18.21	19.00	1.199	98.98	1.010	-0.03	0.412	0.499	
99	2nd	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	5/6	142	5710	18.80	19.00	1.047	98.98	1.010	0.04	0.100	0.106	
		WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	5/6	142	5710	18.21	19.00	1.199	98.98	1.010	0.04	0.385	0.466	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	122	5610	15.96	17.50	1.426	97.98	1.021	0.16	0.253	0.369	-0.90
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	122	5610	15.61	17.50	1.545	97.98	1.021	0.16	0.121	0.191	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	122	5610	15.96	17.50	1.426	97.98	1.021	-0.18	0.206	0.300	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	122	5610	15.61	17.50	1.545	97.98	1.021	-0.18	0.147	0.232	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8 / 9	122	5610	15.96	16.00	1.009	97.98	1.021	0.16	0.253	0.261	-0.90
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8 / 9	122	5610	15.61	16.00	1.094	97.98	1.021	0.16	0.121	0.135	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8 / 9	122	5610	15.96	16.00	1.009	97.98	1.021	-0.18	0.206	0.212	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8 / 9	122	5610	15.61	16.00	1.094	97.98	1.021	-0.18	0.147	0.164	
	1st	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	5/6	151	5755	18.99	19.00	1.002	98.98	1.010	0.04	0.182	0.184	-0.66
		WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	5/6	151	5755	18.52	19.00	1.117	98.98	1.010	0.04	0.445	0.502	
100	2nd	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	5/6	151	5755	18.99	19.00	1.002	98.98	1.010	-0.09	0.122	0.124	
		WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	5/6	151	5755	18.52	19.00	1.117	98.98	1.010	-0.09	0.382	0.431	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	155	5775	15.41	17.00	1.442	97.87	1.022	-0.18	0.082	0.121	-0.96
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	155	5775	15.17	17.00	1.524	97.87	1.022	-0.18	0.242	0.377	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	155	5775	15.41	17.00	1.442	97.87	1.022	-0.05	0.059	0.087	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	155	5775	15.17	17.00	1.524	97.87	1.022	-0.05	0.194	0.302	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8	155	5775	15.41	15.50	1.021	97.87	1.022	-0.18	0.082	0.086	-0.96
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8	155	5775	15.17	15.50	1.079	97.87	1.022	-0.18	0.242	0.267	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8	155	5775	15.41	15.50	1.021	97.87	1.022	-0.05	0.059	0.062	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8	155	5775	15.17	15.50	1.079	97.87	1.022	-0.05	0.194	0.214	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	5/6	171	5855	18.46	19.00	1.132	97.87	1.022	0.05	0.256	0.296	-0.83
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	5/6	171	5855	18.52	19.00	1.117	97.87	1.022	0.05	0.419	0.478	
101	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	5/6	171	5855	18.46	19.00	1.132	97.87	1.022	-0.04	0.193	0.223	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	5/6	171	5855	18.52	19.00	1.117	97.87	1.022	-0.04	0.346	0.395	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	171	5855	16.04	18.00	1.570	97.87	1.022	-0.03	0.102	0.164	-0.72
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	171	5855	16.50	18.00	1.413	97.87	1.022	-0.03	0.218	0.315	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	171	5855	16.04	18.00	1.570	97.87	1.022	-0.14	0.082	0.132	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	171	5855	16.50	18.00	1.413	97.87	1.022	-0.14	0.185	0.267	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8	171	5855	16.04	16.50	1.112	97.87	1.022	-0.03	0.102	0.116	-0.72
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8	171	5855	16.50	16.50	1.000	97.87	1.022	-0.03	0.218	0.223	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8	171	5855	16.04	16.50	1.112	97.87	1.022	-0.14	0.082	0.093	
		WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8	171	5855	16.50	16.50	1.000	97.87	1.022	-0.14	0.185	0.189	

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (dB)
	1st	Bluetooth	1Mbps	Back	10mm	Ant 4	0	39	2441	20.00	21.00	1.260	77.07	1.081	-0.14	0.254	0.346	-0.71
	102 2nd	Bluetooth	1Mbps	Back	10mm	Ant 4	0	39	2441	20.00	21.00	1.260	77.07	1.081	-0.04	0.216	0.294	
	1st	Bluetooth	1Mbps	Back	10mm	Ant 3	0	39	2441	20.37	21.00	1.157	76.96	1.082	-0.06	0.224	0.280	-0.42
	2nd	Bluetooth	1Mbps	Back	10mm	Ant 3	0	39	2441	20.37	21.00	1.157	76.96	1.082	-0.06	0.203	0.254	
	1st	Bluetooth	1Mbps	Back	10mm	Ant 4	2	39	2441	20.00	20.50	1.123	77.07	1.081	-0.14	0.254	0.308	-0.70
	2nd	Bluetooth	1Mbps	Back	10mm	Ant 4	2	39	2441	20.00	20.50	1.123	77.07	1.081	-0.04	0.216	0.262	
	1st	Bluetooth	1Mbps	Front	10mm	Ant 3	2	39	2441	18.99	19.00	1.002	76.96	1.082	-0.03	0.188	0.204	-0.35
	2nd	Bluetooth	1Mbps	Front	10mm	Ant 3	2	39	2441	18.99	19.00	1.002	76.96	1.082	0.02	0.173	0.188	

**13.4 Product Specific SAR**

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Deviation (dB)
	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Edge	0mm	5	9400	1880	19.03	20.60	1.435			0	1.290	1.852	-1.03
103	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Edge	0mm	5	9400	1880	19.04	20.60	1.432			-0.02	1.020	1.461	
	1st	LTE Band 7_Ant 0	20M_QPSK_1_0	Bottom Edge	0mm	5	21100	2535	20.28	22.00	1.486			-0.01	1.460	2.169	-0.44
104	2nd	LTE Band 7_Ant 0	20M_QPSK_1_0	Bottom Edge	0mm	5	21100	2535	20.54	22.00	1.400			0	1.400	1.959	
	1st	LTE Band 25_Ant 0	20M_QPSK_1_0	Bottom Edge	0mm	5	26340	1880	18.55	20.20	1.462			0.04	1.260	1.842	-0.58
105	2nd	LTE Band 25_Ant 0	20M_QPSK_1_0	Bottom Edge	0mm	5	26340	1880	18.66	20.20	1.426			-0.04	1.130	1.611	
	1st	LTE Band 30_Ant 0	10M_QPSK_1_0	Bottom Edge	0mm	5	27710	2310	19.38	21.20	1.521			0.01	1.540	2.342	-1.01
106	2nd	LTE Band 30_Ant 0	10M_QPSK_1_0	Bottom Edge	0mm	5	27710	2310	19.52	21.20	1.472			0.05	1.260	1.855	
	1st	LTE Band 41_Ant 0	20M_QPSK_1_0	Bottom Edge	0mm	5	40620	2593	22.58	24.10	1.419	62.9	1.006	-0.01	1.720	2.455	-0.10
107	2nd	LTE Band 41_Ant 0	20M_QPSK_1_0	Bottom Edge	0mm	5	40620	2593	22.63	24.10	1.403	62.9	1.006	0.01	1.700	2.399	
	1st	FR1 n7_Ant 0	50M_BPSK_1_1	Bottom Edge	0mm	5	507000	2535	19.94	21.60	1.466			-0.13	1.640	2.403	-0.93
108	2nd	FR1 n7_Ant 0	50M_BPSK_1_1	Bottom Edge	0mm	5	507000	2535	20.21	21.60	1.377			-0.01	1.410	1.942	
	1st	FR1 n25_Ant 0	40M_BPSK_1_1	Bottom Edge	0mm	5	376500	1882.5	19.34	20.20	1.219			-0.03	1.490	1.816	-0.36
109	2nd	FR1 n25_Ant 0	40M_BPSK_1_1	Bottom Edge	0mm	5	376500	1882.5	19.52	20.20	1.169			0	1.430	1.672	
	1st	FR1 n41_Ant 0	100M_BPSK_1_1	Bottom Edge	0mm	5	518598	2592.99	21.01	22.30	1.346			-0.15	1.740	2.342	-0.04
110	2nd	FR1 n41_Ant 0	100M_BPSK_1_1	Bottom Edge	0mm	5	518598	2592.99	21.02	22.30	1.343			0.01	1.730	2.323	
	1st	NTN B23_Ant 1	15K_BPSK_1_10	Front	0mm	5	25501	2000.1	22.26	22.30	1.009	79	1.051	0.03	2.330	2.471	-0.56
111	2nd	NTN B23_Ant 1	15K_BPSK_1_10	Front	0mm	5	25501	2000.1	22.29	22.30	1.002	79	1.051	0.02	2.060	2.170	
	1st	NTN B255_Ant 4	15K_BPSK_1_10	Top Edge	0mm	5	261674	1643.5	21.32	21.80	1.117	79	1.051	-0.01	2.090	2.453	-0.23
112	2nd	NTN B255_Ant 4	15K_BPSK_1_10	Top Edge	0mm	5	261674	1643.5	21.32	21.80	1.117	79	1.051	-0.02	1.980	2.324	

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Deviation (dB)
	1st	WLAN5GHz	802.11a 6Mbps	Left Edge	0mm	Ant 4+3(4)	5/6/7	52	5260	18.48	19.00	1.127	99.51	1.005	-0.07	0.001	0.001	-0.27
		WLAN5GHz	802.11a 6Mbps	Left Edge	0mm	Ant 4+3(3)	5/6/7	52	5260	17.13	19.00	1.538	99.51	1.005	-0.07	0.940	1.453	
113	2nd	WLAN5GHz	802.11a 6Mbps	Left Edge	0mm	Ant 4+3(4)	5/6/7	52	5260	18.48	19.00	1.127	99.51	1.005	-0.02	0.001	0.001	
		WLAN5GHz	802.11a 6Mbps	Left Edge	0mm	Ant 4+3(3)	5/6/7	52	5260	17.13	19.00	1.538	99.51	1.005	-0.02	0.883	1.365	
	1st	WLAN5GHz	802.11a 6Mbps	Left Edge	0mm	Ant 4+3(4)	8	52	5260	17.72	18.00	1.067	99.51	1.005	-0.01	0.001	0.001	-0.14
		WLAN5GHz	802.11a 6Mbps	Left Edge	0mm	Ant 4+3(3)	8	52	5260	17.05	18.00	1.245	99.51	1.005	-0.01	0.905	1.132	
	2nd	WLAN5GHz	802.11a 6Mbps	Left Edge	0mm	Ant 4+3(4)	8	52	5260	17.72	18.00	1.067	99.51	1.005	0	0.001	0.001	
		WLAN5GHz	802.11a 6Mbps	Left Edge	0mm	Ant 4+3(3)	8	52	5260	17.05	18.00	1.245	99.51	1.005	0	0.877	1.097	
	1st	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 4+3(4)	5/6	142	5710	18.80	19.00	1.047	98.98	1.010	-0.02	0.001	0.001	-0.30
		WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 4+3(3)	5/6	142	5710	18.21	19.00	1.199	98.98	1.010	-0.02	1.490	1.805	
114	2nd	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 4+3(4)	5/6	142	5710	18.80	19.00	1.047	98.98	1.010	0	0.001	0.001	
		WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 4+3(3)	5/6	142	5710	18.21	19.00	1.199	98.98	1.010	0	1.390	1.684	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	7	122	5610	15.96	17.50	1.426	97.98	1.021	0.06	0.001	0.001	-0.39
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	7	122	5610	15.61	17.50	1.545	97.98	1.021	0.06	0.768	1.212	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	7	122	5610	15.96	17.50	1.426	97.98	1.021	-0.1	0.001	0.001	
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	7	122	5610	15.61	17.50	1.545	97.98	1.021	-0.1	0.703	1.109	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	8	122	5610	15.96	16.00	1.009	97.98	1.021	0.06	0.001	0.001	-0.39
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	8	122	5610	15.61	16.00	1.094	97.98	1.021	0.06	0.768	0.858	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	8	122	5610	15.96	16.00	1.009	97.98	1.021	-0.1	0.001	0.001	
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	8	122	5610	15.61	16.00	1.094	97.98	1.021	-0.1	0.703	0.785	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	5/6	171	5855	18.46	19.00	1.132	97.87	1.022	0	0.001	0.001	-0.03
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	5/6	171	5855	18.52	19.00	1.117	97.87	1.022	0	1.410	1.609	
115	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	5/6	171	5855	18.46	19.00	1.132	97.87	1.022	0.06	0.001	0.001	
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	5/6	171	5855	18.52	19.00	1.117	97.87	1.022	0.06	1.400	1.598	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	7	171	5855	16.04	18.00	1.570	97.87	1.022	0.17	0.001	0.002	-0.05
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	7	171	5855	16.50	18.00	1.413	97.87	1.022	0.17	0.717	1.035	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	7	171	5855	16.04	18.00	1.570	97.87	1.022	0.15	0.001	0.002	



FCC SAR TEST REPORT

Report No. : FA4N0919-01B

		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	7	171	5855	16.50	18.00	1.413	97.87	1.022	0.15	0.709	1.024	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	8	171	5855	16.04	16.50	1.112	97.87	1.022	0.17	0.001	0.001	
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	8	171	5855	16.50	16.50	1.000	97.87	1.022	0.17	0.717	0.733	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(4)	8	171	5855	16.04	16.50	1.112	97.87	1.022	0.15	0.001	0.001	-0.05
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 4+3(3)	8	171	5855	16.50	16.50	1.000	97.87	1.022	0.15	0.709	0.725	
	1st	NFC	ASK	Back	0mm				13.56						0	0.021		
116	2nd	NFC	ASK	Back	0mm				13.56						0	0.019		-0.43

Conclusion:

The spot check results don't show the SAR increase more than 3dB, and all below 1.2W/kg for 1-g SAR, below 3W/kg for 10-g SAR. Referring to the guidance in the ISED inquiry, SAR data reuse is justified.

14. WiFi Output Power (Unit: dBm)

<WLAN Note>

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. For OFDM, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. 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.¹⁸ The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, 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.
6. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
7. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
8. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
9. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel

WLAN 6GHz Power index 1_LPI

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	7.50	Not Required	7.50	Not Required	10.50	99.51
		57	6235		7.50		7.50		10.50	
		113	6515		10.00		10.00		13.00	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		8.00		8.00		11.00	98.24
		57	6235		8.00		8.00		11.00	
		113	6515		10.50		10.50		13.50	
		173	6815		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		11.00		11.00		14.00	98.73
		59	6245		11.00		11.00		14.00	
		107	6485		13.50		13.50		16.50	
		171	6805		13.00		13.00		16.00	
	802.11ax-HE80 MCS0	227	7085		15.00		15.00		18.00	
		7	5985	13.69	14.00	13.14	14.00	16.43	17.00	97.62
		71	6305	13.88	14.00	13.35	14.00	16.63	17.00	
		119	6545	13.49	14.00	13.74	14.00	16.63	17.00	
		167	6785	13.72	14.00	13.62	14.00	16.68	17.00	
		215	7025	14.25	15.00	14.19	15.00	17.23	18.00	

WLAN 6GHz Power index 2_LPI

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	7.50	Not Required	7.50	Not Required	10.50	99.51
		57	6235		7.50		7.50		10.50	
		113	6515		10.00		10.00		13.00	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		8.00		8.00		11.00	98.24
		57	6235		8.00		8.00		11.00	
		113	6515		10.50		10.50		13.50	
		173	6815		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		11.00		11.00		14.00	98.73
		59	6245		11.00		11.00		14.00	
		107	6485		13.50		13.50		16.50	
		171	6805		13.00		13.00		16.00	
	802.11ax-HE80 MCS0	227	7085		15.00		15.00		18.00	
		7	5985	13.69	14.00	13.14	14.00	16.43	17.00	97.62
		71	6305	13.88	14.00	13.35	14.00	16.63	17.00	
		119	6545	13.49	14.00	13.74	14.00	16.63	17.00	
		167	6785	13.72	14.00	13.62	14.00	16.68	17.00	
		215	7025	14.25	15.00	14.19	15.00	17.23	18.00	

WLAN 6GHz Power index 3_LPI

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	7.50	Not Required	7.50	Not Required	10.50	99.51
		57	6235		7.50		7.50		10.50	
		113	6515		10.00		10.00		13.00	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		8.00		8.00		11.00	98.24
		57	6235		8.00		8.00		11.00	
		113	6515		10.50		10.50		13.50	
		173	6815		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		11.00		11.00		14.00	98.73
		59	6245		11.00		11.00		14.00	
		107	6485		12.50		12.50		15.50	
		171	6805		12.00		12.00		15.00	
		227	7085		12.50		12.50		15.50	
	802.11ax-HE80 MCS0	7	5985	11.81	12.50	11.79	12.50	14.81	15.50	97.62
		71	6305	11.61	12.50	11.54	12.50	14.59	15.50	
		119	6545	11.78	12.50	11.69	12.50	14.75	15.50	
		167	6785	11.36	12.00	11.12	12.00	14.25	15.00	
		215	7025	11.95	12.50	11.82	12.50	14.90	15.50	

WLAN 6GHz Power index 4_LPI

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	7.50	Not Required	7.50	Not Required	10.50	99.51
		57	6235		7.50		7.50		10.50	
		113	6515		10.00		10.00		13.00	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		8.00		8.00		11.00	98.24
		57	6235		8.00		8.00		11.00	
		113	6515		10.50		10.50		13.50	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE40 MCS0	3	5965		10.50		10.50		13.50	98.73
		59	6245		10.50		10.50		13.50	
		107	6485		10.50		10.50		13.50	
		171	6805		9.50		9.50		12.50	
		227	7085		10.50		10.50		13.50	
	802.11ax-HE80 MCS0	7	5985	10.00	10.00	9.06	10.00	12.57	13.00	97.62
		71	6305	10.00	10.00	8.76	10.00	12.43	13.00	
		119	6545	10.00	10.00	9.03	10.00	12.55	13.00	
		167	6785	9.26	9.50	7.59	9.50	11.52	12.50	
		215	7025	9.92	10.00	8.72	10.00	12.37	13.00	

WLAN 6GHz Power index 5_LPI

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	7.50	Not Required	7.50	Not Required	10.50	99.51
		57	6235		7.50		7.50		10.50	
		113	6515		10.00		10.00		13.00	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		8.00		8.00		11.00	98.24
		57	6235		8.00		8.00		11.00	
		113	6515		10.50		10.50		13.50	
		173	6815		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		11.00		11.00		14.00	98.73
		59	6245		11.00		11.00		14.00	
		107	6485		13.50		13.50		16.50	
		171	6805		12.50		12.50		15.50	
		227	7085		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	13.69	14.00	13.14	14.00	16.43	17.00	97.62
		71	6305	13.88	14.00	13.35	14.00	16.63	17.00	
		119	6545	13.49	14.00	13.74	14.00	16.63	17.00	
		167	6785	12.00	12.50	12.38	12.50	15.20	15.50	
		215	7025	14.25	15.00	14.19	15.00	17.23	18.00	

WLAN 6GHz Power index 6_LPI

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	7.50	Not Required	7.50	Not Required	10.50	99.51
		57	6235		7.50		7.50		10.50	
		113	6515		10.00		10.00		13.00	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		8.00		8.00		11.00	98.24
		57	6235		8.00		8.00		11.00	
		113	6515		10.50		10.50		13.50	
		173	6815		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		11.00		11.00		14.00	98.73
		59	6245		11.00		11.00		14.00	
		107	6485		13.50		13.50		16.50	
		171	6805		12.50		12.50		15.50	
		227	7085		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	13.69	14.00	13.14	14.00	16.43	17.00	97.62
		71	6305	13.88	14.00	13.35	14.00	16.63	17.00	
		119	6545	13.49	14.00	13.74	14.00	16.63	17.00	
		167	6785	12.00	12.50	12.38	12.50	15.20	15.50	
		215	7025	14.25	15.00	14.19	15.00	17.23	18.00	

WLAN 6GHz Power index 7_LPI

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	7.50	Not Required	7.50	Not Required	10.50	99.51
		57	6235		7.50		7.50		10.50	
		113	6515		10.00		10.00		13.00	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		8.00		8.00		11.00	98.24
		57	6235		8.00		8.00		11.00	
		113	6515		10.50		10.50		13.50	
		173	6815		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		11.00		11.00		14.00	98.73
		59	6245		11.00		11.00		14.00	
		107	6485		13.50		13.50		16.50	
		171	6805		12.50		12.50		15.50	
		227	7085		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	13.69	14.00	13.14	14.00	16.43	17.00	97.62
		71	6305	13.88	14.00	13.35	14.00	16.63	17.00	
		119	6545	13.49	14.00	13.74	14.00	16.63	17.00	
		167	6785	12.00	12.50	12.38	12.50	15.20	15.50	
		215	7025	14.25	15.00	14.19	15.00	17.23	18.00	

WLAN 6GHz Power index 8_LPI

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	7.50	Not Required	7.50	Not Required	10.50	99.51
		57	6235		7.50		7.50		10.50	
		113	6515		10.00		10.00		13.00	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		8.00		8.00		11.00	98.24
		57	6235		8.00		8.00		11.00	
		113	6515		10.50		10.50		13.50	
		173	6815		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		11.00		11.00		14.00	98.73
		59	6245		11.00		11.00		14.00	
		107	6485		13.50		13.50		16.50	
		171	6805		12.50		12.50		15.50	
		227	7085		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	13.69	14.00	13.14	14.00	16.43	17.00	97.62
		71	6305	13.88	14.00	13.35	14.00	16.63	17.00	
		119	6545	13.49	14.00	13.74	14.00	16.63	17.00	
		167	6785	12.00	12.50	12.38	12.50	15.20	15.50	
		215	7025	14.25	15.00	14.19	15.00	17.23	18.00	

WLAN 6GHz Power index 1_SP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	14.00	Not Required	14.00	Not Required	17.00	99.51
		57	6235		14.00		14.00		17.00	
		173	6815		14.00		14.00		17.00	
	802.11ax-HE20 MCS0	1	5955		14.00		14.00		17.00	98.24
		57	6235		14.00		14.00		17.00	
		173	6815		14.00		14.00		17.00	
	802.11ax-HE40 MCS0	3	5965		14.00		14.00		17.00	98.73
		59	6245		14.00		14.00		17.00	
		171	6805		14.00		14.00		17.00	
	802.11ax-HE80 MCS0	7	5985	13.69	14.00	13.14	14.00	16.43	17.00	97.62
		71	6305	13.88	14.00	13.35	14.00	16.63	17.00	
		167	6785	13.72	14.00	13.62	14.00	16.68	17.00	

WLAN 6GHz Power index 2_SP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	14.00	Not Required	14.00	Not Required	17.00	99.51
		57	6235		14.00		14.00		17.00	
		173	6815		14.00		14.00		17.00	
	802.11ax-HE20 MCS0	1	5955		14.00		14.00		17.00	98.24
		57	6235		14.00		14.00		17.00	
		173	6815		14.00		14.00		17.00	
	802.11ax-HE40 MCS0	3	5965		14.00		14.00		17.00	98.73
		59	6245		14.00		14.00		17.00	
		171	6805		14.00		14.00		17.00	
	802.11ax-HE80 MCS0	7	5985	13.69	14.00	13.14	14.00	16.43	17.00	97.62
		71	6305	13.88	14.00	13.35	14.00	16.63	17.00	
		167	6785	13.72	14.00	13.62	14.00	16.68	17.00	

WLAN 6GHz Power index 3_SP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	12.50	Not Required	12.50	Not Required	15.50	99.51
		57	6235		12.50		12.50		15.50	
		173	6815		12.00		12.00		15.00	
	802.11ax-HE20 MCS0	1	5955		12.50		12.50		15.50	98.24
		57	6235		12.50		12.50		15.50	
		173	6815		12.00		12.00		15.00	
	802.11ax-HE40 MCS0	3	5965		12.50		12.50		15.50	98.73
		59	6245		12.50		12.50		15.50	
		171	6805		12.00		12.00		15.00	
	802.11ax-HE80 MCS0	7	5985	11.81	12.50	11.79	12.50	14.81	15.50	97.62
		71	6305	11.61	12.50	11.54	12.50	14.59	15.50	
		167	6785	11.36	12.00	11.12	12.00	14.25	15.00	

WLAN 6GHz Power index 4_SP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.50	Not Required	10.50	Not Required	13.50	99.51
		57	6235		10.50		10.50		13.50	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		10.50		10.50		13.50	98.24
		57	6235		10.50		10.50		13.50	
		173	6815		9.50		9.50		12.50	
	802.11ax-HE40 MCS0	3	5965		10.50		10.50		13.50	98.73
		59	6245		10.50		10.50		13.50	
		171	6805		9.50		9.50		12.50	
	802.11ax-HE80 MCS0	7	5985	10.00	10.50	9.06	10.50	12.57	13.50	97.62
		71	6305	10.00	10.50	8.76	10.50	12.43	13.50	
		167	6785	9.26	9.50	7.59	9.50	11.52	12.50	

WLAN 6GHz Power index 5_SP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	15.00	Not Required	15.00	Not Required	18.00	99.51
		57	6235		15.00		15.00		18.00	
		173	6815		12.50		12.50		15.50	
	802.11ax-HE20 MCS0	1	5955		15.00		15.00		18.00	98.24
		57	6235		15.00		15.00		18.00	
		173	6815		12.50		12.50		15.50	
	802.11ax-HE40 MCS0	3	5965		15.00		15.00		18.00	98.73
		59	6245		15.00		15.00		18.00	
		171	6805		12.50		12.50		15.50	
	802.11ax-HE80 MCS0	7	5985	13.69	15.00	13.14	15.00	16.43	18.00	97.62
		71	6305	13.88	15.00	13.35	15.00	16.63	18.00	
		167	6785	12.00	12.50	12.38	12.50	15.20	15.50	

WLAN 6GHz Power index 6_SP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	15.00	Not Required	15.00	Not Required	18.00	99.51
		57	6235		15.00		15.00		18.00	
		173	6815		12.50		12.50		15.50	
	802.11ax-HE20 MCS0	1	5955		15.00		15.00		18.00	98.24
		57	6235		15.00		15.00		18.00	
		173	6815		12.50		12.50		15.50	
	802.11ax-HE40 MCS0	3	5965		15.00		15.00		18.00	98.73
		59	6245		15.00		15.00		18.00	
		171	6805		12.50		12.50		15.50	
	802.11ax-HE80 MCS0	7	5985	13.69	15.00	13.14	15.00	16.43	18.00	97.62
		71	6305	13.88	15.00	13.35	15.00	16.63	18.00	
		167	6785	12.00	12.50	12.38	12.50	15.20	15.50	

WLAN 6GHz Power index 7_SP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	15.00	Not Required	15.00	Not Required	18.00	99.51
		57	6235		15.00		15.00		18.00	
		173	6815		12.50		12.50		15.50	
	802.11ax-HE20 MCS0	1	5955		15.00		15.00		18.00	98.24
		57	6235		15.00		15.00		18.00	
		173	6815		12.50		12.50		15.50	
	802.11ax-HE40 MCS0	3	5965		15.00		15.00		18.00	98.73
		59	6245		15.00		15.00		18.00	
		171	6805		12.50		12.50		15.50	
	802.11ax-HE80 MCS0	7	5985	13.69	15.00	13.14	15.00	16.43	18.00	97.62
		71	6305	13.88	15.00	13.35	15.00	16.63	18.00	
		167	6785	12.00	12.50	12.38	12.50	15.20	15.50	

WLAN 6GHz Power index 8_SP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	15.00	Not Required	15.00	Not Required	18.00	99.51
		57	6235		15.00		15.00		18.00	
		173	6815		12.50		12.50		15.50	
	802.11ax-HE20 MCS0	1	5955		15.00		15.00		18.00	98.24
		57	6235		15.00		15.00		18.00	
		173	6815		12.50		12.50		15.50	
	802.11ax-HE40 MCS0	3	5965		15.00		15.00		18.00	98.73
		59	6245		15.00		15.00		18.00	
		171	6805		12.50		12.50		15.50	
	802.11ax-HE80 MCS0	7	5985	13.69	15.00	13.14	15.00	16.43	18.00	97.62
		71	6305	13.88	15.00	13.35	15.00	16.63	18.00	
		167	6785	12.00	12.50	12.38	12.50	15.20	15.50	

WLAN 6GHz Power index 7_VLP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	3.50	Not Required	3.50	Not Required	6.50	99.51
		57	6235		3.50		3.50		6.50	
		113	6515		6.00		6.00		9.00	
		173	6815		5.50		5.50		8.50	
	802.11ax-HE20 MCS0	1	5955		4.00		4.00		7.00	98.24
		57	6235		4.00		4.00		7.00	
		113	6515		6.50		6.50		9.50	
		173	6815		5.50		5.50		8.50	
	802.11ax-HE40 MCS0	3	5965		7.00		7.00		10.00	98.73
		59	6245		7.00		7.00		10.00	
		107	6485		9.50		9.50		12.50	
		171	6805		9.00		9.00		12.00	
	802.11ax-HE80 MCS0	227	7085		11.50		11.50		14.50	97.62
		7	5985	9.77	10.00	8.34	10.00	12.12	13.00	
		71	6305	9.66	10.00	9.45	10.00	12.57	13.00	
		119	6545	11.90	12.00	11.39	12.00	14.66	15.00	
	802.11ax-HE80 MCS0	167	6785	11.02	11.50	10.50	11.50	13.78	14.50	97.62
		215	7025	13.80	14.00	13.51	14.00	16.67	17.00	

WLAN 6GHz Power index 8_VLP

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	3.50	Not Required	3.50	Not Required	6.50	99.51
		57	6235		3.50		3.50		6.50	
		113	6515		6.00		6.00		9.00	
		173	6815		5.50		5.50		8.50	
	802.11ax-HE20 MCS0	1	5955		4.00		4.00		7.00	98.24
		57	6235		4.00		4.00		7.00	
		113	6515		6.50		6.50		9.50	
		173	6815		5.50		5.50		8.50	
	802.11ax-HE40 MCS0	3	5965		7.00		7.00		10.00	98.73
		59	6245		7.00		7.00		10.00	
		107	6485		9.50		9.50		12.50	
		171	6805		9.00		9.00		12.00	
	802.11ax-HE80 MCS0	227	7085		11.50		11.50		14.50	97.62
		7	5985	9.77	10.00	8.34	10.00	12.12	13.00	
		71	6305	9.66	10.00	9.45	10.00	12.57	13.00	
		119	6545	11.90	12.00	11.39	12.00	14.66	15.00	
	802.11ax-HE80 MCS0	167	6785	11.02	11.50	10.50	11.50	13.78	14.50	97.62
		215	7025	13.80	14.00	13.51	14.00	16.67	17.00	

15. RF Exposure position consideration

Distance of the Antenna to the EUT surface/edge						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 1	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WWAN Ant 2	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WWAN Ant 6	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 7	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WLAN/BT Ant 3 / 4 / 3+4	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
NFC	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm

Positions for SAR / 6E PD test						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 1	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 2	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 5	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 6	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 7	Yes	Yes	No	Yes	Yes	Yes
WLAN/BT Ant 3 / 4 / 3+4	Yes	Yes	Yes	No	Yes	Yes
NFC	Yes	Yes	Yes	No	Yes	Yes

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm. RF Exposure must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge
- The antenna location is illustrated in the Appendix E.

16. SAR Test Results

General Note:

4. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
5. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
6. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
7. For NTN, 5GHz and 6GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.

WLAN Note:

1. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
2. For all positions / configurations, 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.
3. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.
4. 4+3(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
5. 4+3(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4
6. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

WLAN PD Note:

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. The WiFi 6E RF Exposure results are used for simultaneous transmission analysis with the other transmitters and total exposure ratio, the analysis can be found in this report appendix F and part1 PD report.
6. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
7. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
8. The device was 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.
9. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

**16.1 Head SAR****<WLAN SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m ²)	Reported APD (W/m ²)
117	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1/2	215	7025	14.25	15.00	1.189	97.62	1.024	0.14	0.125	0.152	0.841	1.024
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1/2	215	7025	14.19	15.00	1.205	97.62	1.024	0.14	0.466	0.575	2.93	3.615
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1/2	7	5985	13.69	14.00	1.074	97.62	1.024	-0.13	0.075	0.082	0.316	0.348
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1/2	7	5985	13.14	14.00	1.219	97.62	1.024	-0.13	0.487	0.608	3.2	3.994
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1/2	71	6305	13.88	14.00	1.028	97.62	1.024	0.13	0.125	0.132	0.896	0.943
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1/2	71	6305	13.35	14.00	1.161	97.62	1.024	0.13	0.425	0.505	2.97	3.532
118	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1/2	119	6545	13.49	14.00	1.125	97.62	1.024	0.01	0.118	0.136	0.778	0.896
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1/2	119	6545	13.74	14.00	1.062	97.62	1.024	0.01	0.505	0.549	3.53	3.838
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	1/2	167	6785	13.72	14.00	1.067	97.62	1.024	0.02	0.136	0.149	0.904	0.987
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	1/2	167	6785	13.62	14.00	1.091	97.62	1.024	0.02	0.541	0.605	3.86	4.314
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(4)	1/2	215	7025	14.25	15.00	1.189	97.62	1.024	-0.01	0.122	0.148	0.809	0.985
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(3)	1/2	215	7025	14.19	15.00	1.205	97.62	1.024	-0.01	0.284	0.350	1.65	2.036
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(4)	1/2	215	7025	14.25	15.00	1.189	97.62	1.024	0.14	0.415	0.505	2.76	3.359
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(3)	1/2	215	7025	14.19	15.00	1.205	97.62	1.024	0.14	0.089	0.110	0.551	0.680
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	1/2	215	7025	14.25	15.00	1.189	97.62	1.024	-0.16	0.180	0.219	1.32	1.606
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	1/2	215	7025	14.19	15.00	1.205	97.62	1.024	-0.16	0.169	0.209	1.1	1.357
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	215	7025	11.95	12.50	1.135	97.62	1.024	-0.13	0.064	0.074	0.405	0.471
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	215	7025	11.82	12.50	1.169	97.62	1.024	-0.13	0.347	0.416	2.45	2.934
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	7	5985	11.81	12.50	1.172	97.62	1.024	-0.08	0.047	0.056	0.374	0.449
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	7	5985	11.79	12.50	1.178	97.62	1.024	-0.08	0.285	0.344	1.96	2.364
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	71	6305	11.61	12.50	1.227	97.62	1.024	0.02	0.064	0.080	0.467	0.587
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	71	6305	11.54	12.50	1.247	97.62	1.024	0.02	0.244	0.312	1.63	2.082
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	119	6545	11.78	12.50	1.180	97.62	1.024	0.05	0.063	0.076	0.43	0.520
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	119	6545	11.69	12.50	1.205	97.62	1.024	0.05	0.301	0.371	2.1	2.591
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	3	167	6785	11.36	12.00	1.159	97.62	1.024	0.1	0.062	0.074	0.463	0.549
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	3	167	6785	11.12	12.00	1.225	97.62	1.024	0.1	0.333	0.418	2.35	2.947
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(4)	3	215	7025	11.95	12.50	1.135	97.62	1.024	0.09	0.069	0.080	0.444	0.516
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(3)	3	215	7025	11.82	12.50	1.169	97.62	1.024	0.09	0.157	0.188	0.93	1.114
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(4)	3	215	7025	11.95	12.50	1.135	97.62	1.024	0	0.234	0.272	1.52	1.767
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(3)	3	215	7025	11.82	12.50	1.169	97.62	1.024	0	0.056	0.067	0.351	0.420
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	3	215	7025	11.95	12.50	1.135	97.62	1.024	0.11	0.130	0.151	0.907	1.054
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	3	215	7025	11.82	12.50	1.169	97.62	1.024	0.11	0.086	0.103	0.492	0.589
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	7	5985	10.00	10.00	1.000	97.62	1.024	-0.18	0.038	0.039	0.091	0.093
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	7	5985	9.06	10.00	1.242	97.62	1.024	-0.18	0.141	0.179	0.922	1.172
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	71	6305	10.00	10.00	1.000	97.62	1.024	0.18	0.061	0.062	0.441	0.452
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	71	6305	8.76	10.00	1.330	97.62	1.024	0.18	0.156	0.213	1.11	1.512
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	119	6545	10.00	10.00	1.000	97.62	1.024	-0.09	0.047	0.048	0.272	0.279
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	119	6545	9.03	10.00	1.250	97.62	1.024	-0.09	0.168	0.215	1.35	1.728
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	167	6785	9.26	9.50	1.057	97.62	1.024	0.12	0.035	0.038	0.189	0.205
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	167	6785	7.59	9.50	1.552	97.62	1.024	0.12	0.132	0.210	0.734	1.167
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	4	215	7025	9.92	10.00	1.019	97.62	1.024	0.16	0.043	0.045	0.25	0.261
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	4	215	7025	8.72	10.00	1.343	97.62	1.024	0.16	0.131	0.180	0.801	1.101
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(4)	4	7	5985	10.00	10.00	1.000	97.62	1.024	0.15	0.017	0.017	0.002	0.002
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(3)	4	7	5985	9.06	10.00	1.242	97.62	1.024	0.15	0.096	0.122	0.507	0.645
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(4)	4	7	5985	10.00	10.00	1.000	97.62	1.024	-0.12	0.155	0.159	0.806	0.825
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(3)	4	7	5985	9.06	10.00	1.242	97.62	1.024	-0.12	0.025	0.032	0.089	0.113
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	4	7	5985	10.00	10.00	1.000	97.62	1.024	-0.15	0.086	0.088	0.334	0.342
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	4	7	5985	9.06	10.00	1.242	97.62	1.024	-0.15	0.054	0.069	0.235	0.299

**16.2 Hotspot SAR****<WLAN SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3(4)	7/8	215	7025	13.80	14.00	1.047	97.62	1.024	0.01	0.026	0.028	0.188	0.202
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3(3)	7/8	215	7025	13.51	14.00	1.119	97.62	1.024	0.01	0.029	0.033	0.183	0.210
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(4)	7/8	215	7025	13.80	14.00	1.047	97.62	1.024	0.01	0.044	0.047	0.414	0.444
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(3)	7/8	215	7025	13.51	14.00	1.119	97.62	1.024	0.01	0.033	0.038	0.258	0.296
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(4)	7/8	215	7025	13.80	14.00	1.047	97.62	1.024	0.09	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7/8	215	7025	13.51	14.00	1.119	97.62	1.024	0.09	0.061	0.070	0.382	0.438
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(4)	7/8	7	5985	9.77	10.00	1.054	97.62	1.024	-0.19	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7/8	7	5985	8.34	10.00	1.466	97.62	1.024	-0.19	0.020	0.030	0.113	0.170
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(4)	7/8	71	6305	9.66	10.00	1.081	97.62	1.024	-0.14	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7/8	71	6305	9.45	10.00	1.135	97.62	1.024	-0.14	0.018	0.021	0.104	0.121
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(4)	7/8	119	6545	11.90	12.00	1.023	97.62	1.024	-0.14	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7/8	119	6545	11.39	12.00	1.151	97.62	1.024	-0.14	0.052	0.061	0.413	0.487
119	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(4)	7/8	167	6785	11.02	11.50	1.117	97.62	1.024	-0.16	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7/8	167	6785	10.50	11.50	1.259	97.62	1.024	-0.16	0.062	0.080	0.458	0.590
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	10mm	Ant 4+3(4)	7/8	215	7025	13.80	14.00	1.047	97.62	1.024	-0.15	0.025	0.027	0.212	0.227
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	10mm	Ant 4+3(3)	7/8	215	7025	13.51	14.00	1.119	97.62	1.024	-0.15	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	10mm	Ant 4+3(4)	7/8	215	7025	13.80	14.00	1.047	97.62	1.024	0.02	0.027	0.029	0.206	0.221
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	10mm	Ant 4+3(3)	7/8	215	7025	13.51	14.00	1.119	97.62	1.024	0.02	0.001	0.001	0.001	0.001

16.3 Body Worn Accessory SAR**<WLAN SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3(4)	5/6/7/8	215	7025	14.25	15.00	1.189	97.62	1.024	-0.16	0.045	0.055	0.338	0.411
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3(3)	5/6/7/8	215	7025	14.19	15.00	1.205	97.62	1.024	-0.16	0.046	0.057	0.285	0.352
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(4)	5/6/7/8	215	7025	14.25	15.00	1.189	97.62	1.024	-0.12	0.058	0.071	0.467	0.568
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(3)	5/6/7/8	215	7025	14.19	15.00	1.205	97.62	1.024	-0.12	0.059	0.073	0.405	0.500
120	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(4)	5/6/7/8	7	5985	13.69	15.00	1.352	97.62	1.024	-0.12	0.112	0.155	0.858	1.188
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(3)	5/6/7/8	7	5985	13.14	15.00	1.535	97.62	1.024	-0.12	0.122	0.192	1.1	1.729
121	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(4)	5/6/7/8	71	6305	13.88	15.00	1.294	97.62	1.024	0.15	0.154	0.204	1.22	1.617
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(3)	5/6/7/8	71	6305	13.35	15.00	1.462	97.62	1.024	0.15	0.043	0.064	0.342	0.512
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(4)	5/6/7/8	119	6545	13.49	14.00	1.125	97.62	1.024	-0.17	0.057	0.066	0.454	0.523
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(3)	5/6/7/8	119	6545	13.74	14.00	1.062	97.62	1.024	-0.17	0.064	0.070	0.481	0.523
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(4)	5/6/7/8	167	6785	12.00	12.50	1.122	97.62	1.024	-0.18	0.039	0.045	0.293	0.337
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(3)	5/6/7/8	167	6785	12.38	12.50	1.028	97.62	1.024	-0.18	0.059	0.062	0.463	0.487

**16.4 Product Specific SAR****<WLAN SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	5/6/7/8	215	7025	14.25	15.00	1.189	97.62	1.024	-0.01	0.353	0.430	8.44	10.272
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	5/6/7/8	215	7025	14.19	15.00	1.205	97.62	1.024	-0.01	0.349	0.431	8.38	10.341
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	5/6/7/8	7	5985	13.69	15.00	1.352	97.62	1.024	0.03	0.237	0.328	5.61	7.767
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	5/6/7/8	7	5985	13.14	15.00	1.535	97.62	1.024	0.03	0.304	0.478	7.25	11.393
122	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	5/6/7/8	71	6305	13.88	15.00	1.294	97.62	1.024	-0.01	0.512	0.679	12	15.903
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	5/6/7/8	71	6305	13.35	15.00	1.462	97.62	1.024	-0.01	0.272	0.407	6.51	9.747
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	5/6/7/8	119	6545	13.49	14.00	1.125	97.62	1.024	0.14	0.328	0.378	7.87	9.063
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	5/6/7/8	119	6545	13.74	14.00	1.062	97.62	1.024	0.14	0.362	0.394	8.65	9.404
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	5/6/7/8	167	6785	12.00	12.50	1.122	97.62	1.024	0.03	0.297	0.341	7.14	8.203
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	5/6/7/8	167	6785	12.38	12.50	1.028	97.62	1.024	0.03	0.278	0.293	6.65	7.000
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3(4)	5/6/7/8	215	7025	14.25	15.00	1.189	97.62	1.024	-0.19	0.057	0.069	1.34	1.631
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3(3)	5/6/7/8	215	7025	14.19	15.00	1.205	97.62	1.024	-0.19	0.069	0.085	1.63	2.011
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 4+3(4)	5/6/7/8	215	7025	14.25	15.00	1.189	97.62	1.024	0.15	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 4+3(3)	5/6/7/8	215	7025	14.19	15.00	1.205	97.62	1.024	0.15	0.311	0.384	7.4	9.131
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	0mm	Ant 4+3(4)	5/6/7/8	215	7025	14.25	15.00	1.189	97.62	1.024	0.14	0.076	0.092	1.8	2.191
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	0mm	Ant 4+3(3)	5/6/7/8	215	7025	14.19	15.00	1.205	97.62	1.024	0.14	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	0mm	Ant 4+3(4)	5/6/7/8	215	7025	14.25	15.00	1.189	97.62	1.024	0.01	0.098	0.119	2.31	2.811
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	0mm	Ant 4+3(3)	5/6/7/8	215	7025	14.19	15.00	1.205	97.62	1.024	0.01	0.001	0.001	0.001	0.001

16.5 6GHz PD Test Result

Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Power Drift (dB)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	7	5985	13.14	0.0625	2.73	2.629763786	0.16	1.68	2.13
WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3(3)	7	5985	13.14	0.25	1.49		0.16	0.611	0.766
WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	215	7025	14.19	0.0625	2.42	-0.88941083	0.14	1.84	2.58
WLAN6GHz	802.11ax-HE80 MCS0	Front	8.54mm	Ant 4+3(3)	215	7025	14.19	0.25	2.97		0.15	0.862	0.904

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	1	7	5985	13.14	14.00	97.62	0.0625	1.5535	0.16	1.68	3.26	2.13	4.13
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(4)	1	71	6305	13.88	14.00	97.62	0.0625	1.5535	-0.09	3.24	5.30	3.94	6.44
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	1	119	6545	13.74	14.00	97.62	0.0625	1.5535	-0.05	2.59	4.37	2.99	5.05
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	1	167	6785	13.62	14.00	97.62	0.0625	1.5535	-0.19	2.93	5.09	3.66	6.35
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	1	215	7025	14.19	15.00	97.62	0.0625	1.5535	0.14	1.84	3.53	2.58	4.95
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3(3)	7	215	7025	13.51	14.00	97.62	0.0625	1.5535	0.15	0.574	1.02	0.620	1.10
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(4)	7	215	7025	13.80	14.00	97.62	0.0625	1.5535	0	0.527	0.88	0.553	0.92
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7	215	7025	13.51	14.00	97.62	0.0625	1.5535	0.03	0.602	1.07	0.698	1.24
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7	7	5985	8.34	10.00	97.62	0.0625	1.5535	0.18	0.309	0.72	0.339	0.79
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7	71	6305	9.45	10.00	97.62	0.0625	1.5535	0.01	0.372	0.67	0.421	0.76
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7	119	6545	11.39	12.00	97.62	0.0625	1.5535	-0.11	0.777	1.42	0.912	1.67
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	10mm	Ant 4+3(3)	7	167	6785	10.50	11.50	97.62	0.0625	1.5535	-0.01	0.917	1.84	0.985	1.97
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	10mm	Ant 4+3(4)	7	215	7025	13.80	14.00	97.62	0.0625	1.5535	0.15	0.568	0.95	0.609	1.01
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	10mm	Ant 4+3(4)	7	215	7025	13.80	14.00	97.62	0.0625	1.5535	0.17	0.599	1.00	0.628	1.05
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	5	215	7025	14.19	15.00	97.62	0.0625	1.5535	0.14	1.84	3.53	2.58	4.95
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4+3(3)	5	215	7025	14.19	15.00	97.62	0.0625	1.5535	-0.06	1.04	1.99	1.19	2.28
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	2mm	Ant 4+3(3)	5	215	7025	14.19	15.00	97.62	0.0625	1.5535	-0.18	2.92	5.60	3.4	6.52
123	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	2mm	Ant 4+3(3)	5	7	5985	13.14	15.00	97.62	0.0625	1.5535	0.03	2.29	5.59	2.87	7.01
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	2mm	Ant 4+3(3)	5	71	6305	13.35	15.00	97.62	0.0625	1.5535	0.04	1.88	4.37	2.20	5.12
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	2mm	Ant 4+3(3)	5	119	6545	13.74	14.00	97.62	0.0625	1.5535	0.04	1.41	2.38	3.03	5.12
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	2mm	Ant 4+3(3)	5	167	6785	12.38	12.50	97.62	0.0625	1.5535	-0.04	3.49	5.71	4.15	6.79
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	2mm	Ant 4+3(4)	5	215	7025	14.25	15.00	97.62	0.0625	1.5535	0.1	0.932	1.76	1.13	2.14
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	2mm	Ant 4+3(4)	5	215	7025	14.25	15.00	97.62	0.0625	1.5535	-0.08	0.92	1.74	1.16	2.19

Test Engineer : Kevin Guo, Casper Hsu, Charles Shen, Andy Chiang, Bevis Chang, Chris Yang,

Barry Huang, Jefferson Lin, James Peng, Lev Lo, Randy Lin, Howard Zhao, Jacky Chen and Sam Lin

17. Uncertainty Assessment

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependance	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

18. References

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