



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054303

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SAR TEST REPORT PART 0

Application No.: SZCR2602000543WM
Applicant: Motorola Mobility LLC
Address of Applicant: 222 W Merchandise Mart Plaza, Chicago, IL 60654 USA
Manufacturer: Motorola Mobility LLC
Address of Manufacturer: 222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Product Name: Mobile Cellular Phone
Model No.: XT2625-8(SB) / XT2625-9(Retail) ♣
♣ XT2625-8 (SB) and XT2625-9 (Retail) are the same product with identical prototypes. Only different model names are used for adaptation to different operators.
Trade Mark: Motorola
FCC ID: IHDT56AX3
Standards: FCC 47CFR §2.1093
Date of Receipt: 2026-02-03
Date of Test: 2026-02-25 to 2026-03-10
Date of Issue: 2026-03-18
Test conclusion: **PASS**

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record

Version	Description	Date	Remark
01		2026-03-18	Original

Authorized for issue
by:

Darren Yuan

Darren Yuan/Project Engineer

Roman Pan

Roman Pan / Reviewer



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1 General Information

1.1 General Description of EUT

The detailed description of EUT can refer to SAR TEST REPORT PART 1.

1.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.3 Test Engineer

Test Engineer: Grace Li, Messi Chen, Vito Wang

1.4 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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1.5 Time-Averaging for SAR

The equipment under test (EUT) is a portable handset, it supports 2G/3G/4G/5G NR/BT/WLAN/NFC bands, but only 2G/3G/4G/5G NR are enabled with Mediatek TAS feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement. All WWAN Band are configured for peak exposure mode, we verification the applicable cases in part 2 report.

This part 0 report describes the procedures for the SAR char generation, and the parameters obtained

Nomenclature for Part 0 Report:

Technology	Term	Description
WWAN	P_{limit}	Power level that corresponds to the exposure design target (SAR_{design_target}) after accounting for all device design related uncertainties
	P_{max}	Maximum tune up output power
	SAR_{design_target}	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	$SAR\ Char$	Table containing P_{limit} for all technologies and bands



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards.	
Reflection of surrounding objects is minimized and in compliance with requirement of standards.	



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3 SAR CHARACTERIZATION

3.1 ECI and SAR Determination

This device uses different ECI to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smart phone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that ECI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst case was determined from SAR normalized to 1g or 10g SAR limit.

The ECI conditions used in Table 1 represent different exposure scenarios.

Trigger Conditions	Position	Ant	ECI
Receiver on	Left cheek/tilted & Right cheek/tilted	Ant0/1/2/4/5/8/6	ECI2
Receiver off Sensor of Hotspot on	All Sides	Ant0/1/2/4/5/8/6	ECI7
Receiver off Sensor on	Front & Back side 5mm	Ant0/1/2/4/5/8/6	ECI3
Receiver off Sensor off	Front & Back side 5mm	Ant0/1/2/4/5/8/6	ECI4
Receiver off Sensor on Limbs	All Sides	Ant0	ECI9
	All Sides	Ant1	ECI10
	All Sides	Ant4	ECI11
	All Sides	Ant5	ECI12
	All Sides	Ant6	/
Receiver off Sensor off Limbs	All Sides	Ant0	ECI4
	All Sides	Ant1	ECI4
	All Sides	Ant4	ECI4
	All Sides	Ant5	ECI4
	All Sides	Ant2/8	ECI4
	All Sides	Ant6	/

Table 1: ECI and Corresponding Exposure Scenarios



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3.2 SAR Design Target And Uncertainty

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

$$\text{SAR_design_target} < \text{SAR}_{\text{regulatory_limit}} \times 10^{\frac{-\text{total uncertainty}}{10}}$$

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg_1g	SAR design target (1-g) Top Ant	SAR design target (1-g) Bottom Ant
Head	WWAN	1.6	0.74	1.03
Body worn /Hotspot	WWAN	1.6	0.74	1.03
Exposure position	Frequency band	SAR_Regulatory_Limit W/kg_10g	SAR_design_target W/kg_10g Top Ant	SAR_design_target W/kg_10g Bottom Ant
Extremity	WWAN	4.0	1.98	2.55



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3.3 SAR Char

The TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band. MTK-TA allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} and maximum tune up output power P_{max} configured for this EUT for various transmit conditions.

P_{limit} for supported technologies and bands

Band	Mode	Antenna	Pmax* (burst)	Pmax* (average)	Uncertainty	Plimit (average)							
						Head	Body& Extremity (Front&Back sides) Sensor on	Body& Extremity (All sides) Sensor off	Hotspot	Body& Extremity (Right&Bottom sides) Sensor on	Body& Extremity (Left&Bottom sides) Sensor on	Body& Extremity (Left& Top sides) Sensor on	Body& Extremity (Top side) Sensor on
						ECI 2	ECI 3	ECI 4	ECI 7	ECI 9	ECI 10	ECI 11	ECI 12
GSM 850	GPRS 3TS	0#	30.0	25.7	1.5	25.7	21.2	25.7	21.2	25.7	/	/	/
GSM 1900	GPRS 4TS	0#	26.0	23.0	1.5	23.0	17.0	23.0	16.0	20.5	/	/	/
WCDMA_B2	RMC	0#	23.0	23.0	1.5	23.0	18.0	23.0	17.0	21.5	/	/	/
WCDMA_B4	RMC	0#	23.0	23.0	1.5	23.0	18.0	23.0	16.5	19.5	/	/	/
WCDMA_B5	RMC	0#	23.0	23.0	1.5	23.0	21.0	23.0	21.0	23.0	/	/	/
LTE_B2	QPSK	0#	23.0	23.0	1.5	23.0	18.0	23.0	17.0	21.5	/	/	/
LTE_B4	QPSK	0#	23.0	23.0	1.5	23.0	16.5	23.0	15.0	19.0	/	/	/
LTE_B5	QPSK	0#	23.0	23.0	1.5	23.0	21.0	23.0	21.0	23.0	/	/	/
LTE_B7	QPSK	1#	23.0	23.0	1.5	23.0	17.5	23.0	17.5	/	19.5	/	/
LTE_B12	QPSK	0#	23.0	23.0	1.5	23.0	23.0	23.0	23.0	23.0	/	/	/
LTE_B17	QPSK	0#	23.0	23.0	1.5	23.0	23.0	23.0	23.0	23.0	/	/	/
LTE_B26	QPSK	0#	23.0	23.0	1.5	23.0	21.0	23.0	21.0	23.0	/	/	/
LTE_B38	QPSK	4#	23.0	21.0	1.5	16.0	13.5	21.0	12.0	/	/	19.5	/
LTE_B41-PC2	QPSK	4#	26.0	22.5	1.5	18.0	16.5	22.5	15.0	/	/	21.0	/
LTE_B41-PC3	QPSK	1#	23.0	21.0	1.5	21.0	15.0	21.0	15.0		17.0	/	
	QPSK	4#	23.0	21.0	1.5	17.5	16.0	21.0	14.5	/	/	21.0	/
LTE_B42	QPSK	5#	23.0	21.0	1.5	16.5	14.5	21.0	13.0	/	/	/	18.0
NR5G_N77 PC3	QPSK	1#	21.0	21.0	1.5	21.0	21.0	21.0	20.0	/	/	/	/



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	QPSK	2#	22.0	22.0	1.5	21.0	19.5	22.0	18.0	/	/	/	/
	QPSK	5#	23.0	23.0	1.5	10.5	12.0	23.0	10.5	/	/	/	16.5
	QPSK	8#	23.0	23.0	1.5	23.0	15.0	23.0	13.5	/	/	/	/
NR5G_N77 PC2	QPSK	1#	24.0	24.0	1.5	24.0	24.0	24.0	23.0	/	/	/	/
	QPSK	2#	25.0	25.0	1.5	24.0	22.5	25.0	21.0	/	/	/	/
	QPSK	5#	26.0	26.0	1.5	13.5	15.0	26.0	13.5	/	/	/	19.5
	QPSK	8#	26.0	26.0	1.5	26.0	18.0	26.0	16.5	/	/	/	/
NR5G_N78 PC3	QPSK	1#	21.0	21.0	1.5	21.0	21.0	21.0	20.0	/	/	/	/
	QPSK	2#	22.0	22.0	1.5	21.0	19.5	22.0	18.0	/	/	/	/
	QPSK	5#	23.0	23.0	1.5	10.5	12.0	23.0	10.5	/	/	/	16.5
	QPSK	8#	23.0	23.0	1.5	23.0	15.0	23.0	13.5	/	/	/	/
NR5G_N78 PC2	QPSK	1#	24.0	24.0	1.5	24.0	24.0	24.0	23.0	/	/	/	/
	QPSK	2#	25.0	25.0	1.5	24.0	22.5	25.0	21.0	/	/	/	/
	QPSK	5#	26.0	26.0	1.5	13.5	15.0	26.0	13.5	/	/	/	19.5
	QPSK	8#	26.0	26.0	1.5	26.0	18.0	26.0	16.5	/	/	/	/

Note:

- 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + Total uncertainty.
- 2) If P_{limit} is higher than P_{max}, the device output power will be P_{max} instead.
- 3) Note that WLAN operations are not enabled with MTK-TA.
- 4) The following table is duty cycle and factor used for calculating time average power.

Mode	Duty Cycle	Time Average calculation Factor
GSM 1TX	12.5%	-9.0
GSM 2TX	25.0%	-6.0
GSM 3TX	37.5%	-4.3
GSM 4TX	50.0%	-3.0
LTE FDD	100.0%	0.0
LTE TDD	63.3%	-2.0
LTE TDD HPUE	43.3%	-3.5
NR FDD	100.0%	0.0
NR TDD	100.0%	0.0
NR TDD HPUE	100.0%	0.0

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