



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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR250500212311

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FCC TEST REPORT PART 0

Application No.:	SZCR2505002123WM
Applicant:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Applicant:	No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
Manufacturer:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Manufacturer:	No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
Product Name:	Mobile Phone
Model No.(EUT):	RMX5106
Trade Mark:	realme
FCC ID:	2AUYFRMX5106
Date of Receipt:	2025-05-28
Date of Test:	2025-05-31 to 2025-06-03
Date of Issue:	2025-07-09
Test conclusion:	PASS

Keny. XII

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-07-09		Original

Authorized for issue by:				
		Sherlock Fang		
		Sherlock Fang/Project Engineer		
		Roman Pan		
		Roman Pan /Reviewer		



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1 General Information

1.1 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	RMX5106		
Trade Mark:	realme		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	860028070019633; 860028070019690; 860028070019658; 860028070019716; 860028070019732.		
Hardware Version:	11		
Software Version:	realme UI 6.0		
Antenna Type:	Fixed Internal		
Device Operating Configurations:			
Modulation Mode:	GSM :GMSK,8PSK; WCDMA :QPSK,16QAM LTE :QPSK,16QAM,64QAM 5G NR :DFT-s-OFDM(QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI :DSSS,OFDM,OFDMA; BT :GFSK, $\pi/4$ DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24	HSUPA UE Category:	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control "max power"(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	
	WCDMA Band V	824~849	





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	LTE Band 2	1850 ~1910
	LTE Band 4	1710~1755
	LTE Band 5	824~849
	LTE Band 7	2500~2570
	LTE Band 12	699~716
	LTE Band 13	777~787
	LTE Band 17	704-716
	LTE Band 26	814~849
	LTE Band 38	2570~2620
	LTE Band 41	2496~2690
	LTE Band 66	1710~1780
	LTE Band 71	663~698
	NR Band n2	1850 ~1910
	NR Band n5	824~849
	NR Band n7	2500~2570
	NR Band n26	814~849
	NR Band n38	2570~2620
	NR Band n41	2496~2690
	NR Band n66	1710~1780
	NR Band n71	663~698
	WIFI 2.4G	2412~2462
	WIFI 5G	5150~5250
		5250~5350
		5470~5725
		5725~5850
	BT	2402~2480
	NFC	13.56
RF Cable:	<input checked="" type="checkbox"/> Provided by applicant <input type="checkbox"/> Provided by the laboratory	
Battery Information:	Model 1:	BLPC93
	Normal Voltage:	3.92V
	Rated capacity:	6325mAh
	Manufacturer:	Chongqing Cosmx Battery Co.,LTD

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1.2 Test Location

All tests were performed at:

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No tests were sub-contracted.

1.3 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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1.4 Time-Averaging for SAR

The device is equipped with MediaTek chipset, which uses the TA SAR algorithm (Version:TA 2.0) to control the energy radiation of the mobile phone. The RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek TA-SAR feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency \leq 6GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement. TA-SAR cannot operate without SAR characterization at the device level, beforehand.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for TA-SAR algorithm. Both SAR char will be entered via the MediaTek's NV suggestion to enable the TA-SAR Feature.

Nomenclature for Part 0 Report:

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



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2 SAR CHARACTERIZATION

2.1 DSI and SAR Determination

This device uses ECI to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, 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 device state index (ECI) conditions used in Table 1 represent different exposure scenarios.

Scenario	Description	SAR Test Cases
Head (ECI = 2)	<ul style="list-style-type: none">Device positioned next to headReceiver Active	<i>Head SAR per KDB Publication 648474 D04</i>
Hotspot mode (ECI = 3)	<ul style="list-style-type: none">Device transmits in hotspot mode near bodyHotspot Mode Active	<i>Hotspot SAR per KDB Publication 941225 D06</i>
Body-worn (ECI = 1)	<ul style="list-style-type: none">Device being used with a body-worn accessory	<i>Body-worn SAR per KDB Publication 648474 D04</i>

Table 1: ECI and Corresponding Exposure Scenarios



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2.2 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.

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

Uncertainty dB (k=2)	All Band
Total uncertainty	1.2

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(1g)	SAR_design_target W/kg(1g)
Head	WWAN	1.6	1.2
Body worn	WWAN	1.6	1.2
Hotspot	WWAN	1.6	1.2
Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(10g)	SAR_design_target W/kg(10g)
Limbs	WWAN	4.0	3.0



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2.3 SAR Char

The Smart Transmit 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. Smart Transmit 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} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (DSI: Device State Index).

P_{limit} for supported technologies and bands (actual EFS settings)

Band	Mode	Antenna	P_{max}^*	P_{limit} (average)		
				Body worn Product specific	Head	Hotspot
				ECI1(State1)	ECI2(State2)	ECI3(State3)
GSM 850	GPRS 4TS	0#	23.5	23.5	23.5	23.5
	GPRS 2TS	1#	23.9	23.9	22.9	23.4
GSM 1900	GPRS 4TS	4#	20.5	20.0	20.5	19.0
	GPRS 2TS	5#	19.7	/	17.2	/
	GPRS 4TS	5#	20.2	20.2	/	20.2
WCDMA_B2	RMC	4#	24.0	22.0	24.0	21.0
	RMC	5#	23.7	23.7	18.2	23.7
WCDMA_B4	RMC	4#	24.0	22.0	24.0	21.0
	RMC	5#	23.7	23.2	19.2	22.2
WCDMA_B5	RMC	0#	24.0	24.0	24.0	24.0
	RMC	1#	23.4	23.4	23.4	23.4
LTE_B2	QPSK	4#	23.5	22.0	23.5	21.0
	QPSK	5#	23.0	23.0	18.5	23.0
	QPSK	7#	20.0	20.0	19.0	20.0
LTE_B4	QPSK	4#	24.0	21.5	24.0	20.5
	QPSK	5#	23.2	21.7	18.7	20.7
	QPSK	7#	20.5	20.5	19.5	20.5
LTE_B5	QPSK	0#	24.2	24.2	24.2	24.2
	QPSK	1#	23.6	23.6	23.6	23.6
LTE_B7	QPSK	4#	23.7	22.2	23.7	21.2

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	QPSK	5#	23.0	20.5	15.5	19.5
	QPSK	7#	19.2	19.2	18.2	19.2
LTE_B12	QPSK	0#	23.5	23.5	23.5	23.5
	QPSK	1#	22.9	22.9	22.9	22.9
LTE_B13	QPSK	0#	23.5	23.5	23.5	23.5
	QPSK	1#	22.9	22.9	22.9	22.9
LTE_B17	QPSK	0#	23.5	23.5	23.5	23.5
	QPSK	1#	22.9	22.9	22.9	22.9
LTE_B26	QPSK	0#	24.2	24.2	24.2	24.2
	QPSK	1#	23.6	23.6	23.6	23.6
LTE_B66	QPSK	4#	24.2	21.7	24.2	20.7
	QPSK	5#	23.5	23.0	19.0	22.0
	QPSK	7#	20.7	20.7	20.7	20.7
LTE_B71	QPSK	0#	23.5	23.5	23.5	23.5
	QPSK	1#	22.9	22.9	22.9	22.9
LTE_B38	QPSK	4#	21.8	21.8	21.8	21.8
	QPSK	5#	21.1	19.6	15.1	18.6
	QPSK	7#	17.3	17.3	16.3	17.3
LTE_B41	QPSK	4#	22.0	22.0	22.0	21.0
	QPSK	5#	21.3	19.8	15.8	18.8
	QPSK	7#	17.5	17.5	17.5	17.5
NR5G_N2	QPSK	4#	23.0	21.5	23.0	21.0
	QPSK	5#	22.7	22.7	18.7	22.7
	QPSK	7#	19.5	19.5	18.5	19.5
NR5G_N5	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	23.4	23.4	23.4	23.4
NR5G_N7	QPSK	4#	23.5	23.5	23.5	22.5
	QPSK	5#	22.8	21.3	17.3	20.3
	QPSK	7#	19.0	19.0	18.0	19.0
NR5G_N26	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	23.4	23.4	23.4	23.4
NR5G_N38	QPSK	4#	23.8	22.8	23.8	22.3

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	QPSK	5#	23.1	19.1	15.6	18.6
	QPSK	7#	19.3	19.3	18.3	19.3
NR5G_N41	QPSK	4#	23.8	21.8	23.8	21.3
	QPSK	5#	23.1	19.1	16.1	18.6
	QPSK	7#	19.3	19.3	17.8	19.3
	QPSK	4#	24.0	21.5	24.0	21.0
NR5G_N66	QPSK	5#	23.7	22.2	20.2	21.2
	QPSK	7#	20.5	20.5	19.5	20.5
	QPSK	0#	23.5	23.5	23.5	23.5
NR5G_N71	QPSK	1#	22.9	22.9	22.9	22.9

Note:

- 1) P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to $P_{max} + \text{Total uncertainty}$.
- 2) The max allowed output power is the $P_{limit} + \text{Total uncertainty}$, and 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 Smart Transmit.
- 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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