

FCC TEST REPORT PART 0

Application No.: SEWM2308000313RG
Applicant: Shenzhen Tinno Mobile Technology Corp.
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Product Name: Smart Phone
Model No.(EUT): Celero3 5G+
FCC ID: XD6U695DS
Date of Receipt: 2023-08-14
Date of Test: 2023-08-20 to 2023-09-24
Date of Issue: 2023-10-18
Test conclusion: **PASS**

Authorized Signature:

Well Wei

Regulatory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2308000313RG13	01	Original	2023-10-18

Prepared By	 <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> Nick Hu
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1 General Information

1.1 Details of Client

Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

1.2 Test Location

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



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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 Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

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

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

CAB identifier: CN0006.

IC#: 4620C.

• **FCC –Designation Number: CN1336**

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

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



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1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Smart Phone		
Model No.(EUT):	Celero3 5G+		
FCC ID:	XD6U695DS		
Trade Mark:	Celero3 5G+		
Product Phase:	Identical Prototype		
IMEI:	1# 867222065004733		
	2# 867222065004857		
	3# 867222065004865		
Hardware Version:	V1.0		
Software Version:	U695DSV01.01.10		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK, 16QAM;		
	LTE: QPSK, 16QAM, 64QAM, 256QAM;		
	5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM)		
	WIFI: DSSS, OFDM, OFDMA; BT: GFSK, π/4DQPSK, 8DPSK NFC: ASK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	10	HSUPA UE Category	6
DC-HSDPA UE Category:	24		
Power Class	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control Max Power(LTE Band)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824-849	869-894
	GSM1900	1850-1910	1930-1990
	WCDMA Band II	1850-1910	1930-1990
	WCDMA Band IV	1710-1755	2110-2155
	WCDMA Band V	824-849	869-894
	LTE Band 2	1850 -1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 12	699-716	729-746
	LTE Band 14	788-798	758-768
LTE Band 17	704-716	734-746	



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	LTE Band 26	814-849	859-894
	LTE Band 30	2305-2315	2350-2360
	LTE Band 48	3550-3700	3550-3700
	LTE Band 66	1710-1780	2110-2200
	LTE Band 71	663-698	617-652
	NR Band n2	1850-1910	1930-1990
	NR Band n5	824-849	869-894
	NR Band n25	1850-1915	1930-1995
	NR Band n26	814-849	859-894
	NR Band n30	2305-2315	2350-2360
	NR Band n41	2496~2690	2496~2690
	NR Band n48	3550-3700	3550-3700
	NR Band n66	1710~1780	2110~2200
	NR Band n70	1695-1710	1995-2020
	NR Band n71	663-698	617-652
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2402~2462	2402~2462
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
		5725~5850	5725~5850
	WIF 6E	5925-6425	5925-6425
		6425-6525	6425-6525
		6525-6875	6525-6875
		6875-7125	6875-7125
NFC	NFC	13.56	13.56
RF Cable:	Provided by the applicant	Provided by the laboratory	
1# Battery Information:	Model:	486786	
	Normal Voltage:	+3.85V	
	Typical capacity:	4900mAh	
	Manufacturer:	Guangdong Fenghua New Energy Co.,Ltd.	
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1.5 Time-Averaging for SAR

The equipment under test (EUT) is a portable handset, it contains the MTK modem supporting 2G/3G/4G/5G NR/BT/WLAN/NFC bands. But only 2G/3G/4G/5G NR are enabled with Qualcomm Smart Transmit 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. GSM/CDMA/WCDMA/LTE Standalone/NR SA are configured for peak exposure mode. For device using Smart Transmit force peak mode or peak mode, we verification the time-window switch test in part2 follows the MTK user guide, but NSA and Inter band UL CA are not peak mode, we verification the applicable cases for NSA and Inter band UL CA in part2.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time- varying) transmission scenario for WWAN technologies are reported in Part 2 report.

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 SAR CHARACTERIZATION

2.1 DSI and SAR Determination

This device uses different Device State Index (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 = 4)	<ul style="list-style-type: none"> Device positioned next to head Receiver 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 body Hotspot 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: DSI 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	1.0

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(1g)	SAR_design_target W/kg(1g)
Head	WWAN	1.6	1.0
Body worn	WWAN	1.6	1.0
Hotspot	WWAN	1.6	1.0
Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(10g)	SAR_design_target W/kg(1g)
Product specific 10gSAR	WWAN	4.0	2.5



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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 (ECI: Device State Index).

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

RAT	Band	ANT	Duty cycle (%)	P _{limit,nom} (dBm) Setting						P _{max,nom} (dBm) Setting
				ECI 1 body 0mm&15mm (Hotspot off)	ECI 2 body 0mm&15mm (Hotspot off simultaneous)	ECI 3 body 10mm (Receiver off simultaneous)	ECI 4 head (Hotspot off)	ECI 5 head (Hotspot on simultaneous)	ECI 6 head (Hotspot off simultaneous)	
				burst-power	burst-power	burst-power	burst-power	burst-power	burst-power	
2G GPRS	850 4Tx	1	50	31.11	31.11	28.01	31.71	31.71	31.71	27.31
2G GPRS	1900 4Tx	2	50	29.91	29.91	26.91	32.31	32.31	32.31	24.31
3G WCDMA	II	2	100	27.90	27.90	25.00	30.70	30.70	30.70	22.80
3G WCDMA	IV	2	100	29.80	29.80	26.30	32.40	32.40	32.40	22.80
3G WCDMA	V	1	100	28.80	28.80	25.60	30.40	30.40	30.40	22.80
4G LTE	B2	2	100	27.50	27.50	25.10	31.40	31.40	31.40	23.30
	B2 for ENDC	2	100	28.60	28.60	25.80	32.20	32.20	32.20	22.10
	B2	3	100	25.00	25.00	22.50	20.10	20.10	20.10	23.30
	B4	2	100	29.90	29.90	26.20	33.30	33.30	33.30	22.50
	B4 for ENDC	2	100	30.30	30.30	26.80	33.60	33.60	33.60	23.30
	B4	3	100	25.60	25.60	22.90	20.40	20.40	20.40	23.30
	B5	1	100	29.20	29.20	25.10	31.30	31.30	31.30	23.80
	B5 for ENDC	3	100	32.90	32.90	29.70	25.40	25.40	25.40	23.80
	B12	1	100	29.90	29.90	27.50	32.10	32.10	32.10	23.80
	B14	1	100	29.30	29.30	27.30	31.30	31.30	31.30	23.80
	B17	1	100	29.00	29.00	26.50	32.10	32.10	32.10	22.80
	B26	1	100	29.50	29.50	25.40	31.30	31.30	31.30	23.80
	B30 for ENDC	1	100	23.00	23.00	21.50	44.10	44.10	44.10	22.00
	B30	3	100	20.30	20.30	17.70	16.50	16.50	16.50	21.80
	B66	2	100	29.80	29.80	26.10	33.30	33.30	33.30	22.50
	B66 for ENDC	2	100	30.30	30.30	26.70	33.60	33.60	33.60	23.30
B66	3	100	25.70	25.70	22.70	20.40	20.40	20.40	23.30	
B71	1	100	29.40	29.40	29.40	33.70	33.70	33.70	23.80	



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	B48	5	63.3	29.29	29.29	25.49	21.99	21.99	21.99	22.79
5G NR	n2	2	100	27.70	27.70	24.80	30.70	30.70	30.70	22.10
	n2	3	100	23.10	23.10	21.90	20.20	20.20	20.20	23.30
	n5	1	100	29.40	29.40	26.70	31.40	31.40	31.40	23.80
	n25	2	100	27.70	27.70	24.80	30.70	30.70	30.70	22.10
	n25	3	100	21.70	21.70	21.70	20.20	20.20	20.20	23.30
	n26	1	100	29.40	29.40	26.60	31.40	31.40	31.40	23.80
	n30	3	100	19.90	19.90	18.20	16.70	16.70	16.70	21.80
	n41_PC2	1	50	25.11	25.11	20.81	36.01	36.01	36.01	24.51
	n41_PC3	1	80	23.37	23.37	20.87	29.57	29.57	29.57	21.77
	n41_PC2	3	50	20.11	20.11	17.71	17.71	17.71	17.71	25.81
	n41_PC3	3	80	20.17	20.17	17.67	17.77	17.77	17.77	21.27
	n41_PC2	4	50	55.01	55.01	55.01	55.01	55.01	55.01	24.31
	n41_PC3	4	80	52.07	52.07	41.77	52.07	52.07	52.07	21.77
	n41_PC2	6	50	49.31	49.31	35.91	35.31	35.31	35.31	24.81
	n41_PC3	6	80	34.97	34.97	31.07	30.77	30.77	30.77	21.77
	n48	5	80	22.17	22.17	22.67	19.47	19.47	19.47	22.77
	n66	2	100	29.30	29.30	26.20	32.00	32.00	32.00	22.50
	n66	3	100	24.90	24.90	22.50	20.60	20.60	20.60	23.30
	n70	2	100	28.30	28.30	25.50	31.60	31.60	31.60	22.50
	n70	3	100	26.50	26.50	23.70	21.60	21.60	21.60	23.30
	n71	1	100	30.00	30.00	29.20	32.60	32.60	32.60	23.80
	n77_PC2	2	50	28.61	28.61	21.71	38.31	38.31	38.31	24.31
	n77_PC3	2	80	23.47	23.47	21.67	34.87	34.87	34.87	21.27
	n77_PC2	4	50	35.11	35.11	25.81	34.91	34.91	34.91	24.31
n77_PC3	4	80	27.67	27.67	23.57	28.87	28.87	28.87	21.27	
n77_PC2	5	50	23.91	23.91	21.41	19.01	19.01	19.01	26.51	
n77_PC3	5	80	23.87	23.87	21.27	16.97	16.97	16.97	22.77	
n77_PC2	6	50	28.31	28.31	23.01	15.91	15.91	15.91	24.81	
n77_PC3	6	80	25.37	25.37	22.77	18.97	18.97	18.97	22.27	

Note:

- 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + Total uncertainty.
- 2) The max allowed output power is the P_{limit} + 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.



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